

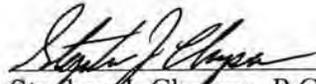
**EVALUATION OF GROUNDWATER IMPACTS
DEWATERING OF PROPOSED
ENON QUARRY
CLARK COUNTY, OHIO**

Prepared for
ENON SAND & GRAVEL

Prepared by
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INTRODUCTION

The purpose of this report is to evaluate the potential impact on groundwater levels that may occur from dewatering associated with quarry operations at the proposed Enon Sand & Gravel II Quarry in Mad River Township, Clark County, Ohio (Industrial Minerals Permit No. IM-340). Sand and gravel was mined at the site by Demmy Sand and Gravel until 2015 when the quarry was purchased by Enon Sand & Gravel. Evidence from aerial photography and topographic mapping indicates that sand and gravel extraction at the site began prior to 1955. The quarry location is shown on Figure 1 and Plate 1.

The Enon Sand & Gravel property encompasses about 450 acres. Existing site topography is shown on Figure 2. Sand and gravel has been extracted from approximately 75 acres of the site in the areas indicated on Figure 2. Past extraction has been done wet and no dewatering has occurred. Demmy Construction registered as a significant water withdrawal facility with the Ohio Department of Natural Resources (ODNR) in 2008, but no water withdrawal has been reported. The quarry expansion is for the purpose of mining the carbonate bedrock and has been broken down into two phases for the purpose of this evaluation, as shown on Figure 2. The proposed expansion areas total approximately 199 acres. The Phase I area is about 76 acres and the Phase II area is about 123 acres. The areas of each phase are shown on Figure 2. Figure 2 also shows the topography of the floor of the proposed quarry phases and sump locations.

This evaluation involved review of available information relative to local and regional geology and hydrogeology and a computer model analysis to simulate the effects of quarry dewatering on groundwater levels in the vicinity of the proposed quarry. Contained in this report is the information collected during the investigation, our assessment of potential changes in groundwater levels associated with developing the proposed site, and recommendations for monitoring changes in groundwater levels as quarry development proceeds.

HYDROGEOLOGIC SETTING

Site Geology

Proposed quarry Phase I is located south of an unnamed tributary to Mud Run. The surface elevation ranges from approximately 950 feet, mean sea level (MSL) at the north side of Phase I to 980 feet, MSL to the south. Quarry Phase II is located north of Mud Run at surface elevations varying from about 910 feet, MSL near Mud Run to 990 feet, MSL at the north side of the Phase I area. Mud Run and its unnamed tributary generally flow from east to west across the Enon Sand & Gravel property.

The quarry site is located in the Southern Ohio Loamy Till Plain physiographic region (Brockman, 1998). The region is characterized by glacial moraine ridges and relatively flat ground moraine dissected by steep river valleys. Unconsolidated materials in the upland areas are Wisconsinan Age ground moraine that consist primarily of glacial till underlain by carbonate bedrock. Stream valleys in the region are filled with glacial outwash sand and gravel. Major drainage features within the study area are the Mad River and its tributaries to the north and the Little Miami River and its tributaries to the south. Both of these rivers flow generally from east to west within the study area. The till beneath the upland areas near the site is generally less than 30 feet thick, but reaches a thickness of 80 feet just east of the Enon Sand & Gravel property.

The bedrock topography within the study area is shown on Plate 2. The bedrock contours shown on Plate 2 are taken from the bedrock topographic map database from the Ohio Division of Geological Survey (2003) with modifications in the quarry area based on data from site borings.

Bedrock valleys on Plate 2 trend from east-northeast to west-southwest and are associated with the course of the Mad River to the north, the Little Miami River to the South and Mud Run and its tributaries in the central part of the study area. Bedrock outcrops in the Little Miami River Valley in Clifton Gorge, John Bryan State Park and Glen Helen. Bedrock elevations range from below 600 feet, MSL in the northwest part of the study area to over 1000 feet, MSL in the upland areas.

The elevation of the bedrock surface beneath quarry Phase I is relatively flat and ranges from about 935 to 960 feet, MSL. Bedrock elevations beneath quarry Phase II range from about 860 to 960 feet MSL and the bedrock surface generally slopes to the south toward Mud Run.

The thickness of glacial drift, i.e. unconsolidated materials above bedrock, is shown on Plate 3. Drift over the upland areas is primarily glacial till and the till thickness generally ranges from zero in places where bedrock outcrops up to about 50 feet. Till thicknesses of over 150 feet are present east and southwest of the Enon Sand & Gravel property. Drift thickness generally increases toward the river valleys, which are coincident with the bedrock valleys shown on Plate 2. The greatest drift thicknesses are located in the valleys of the Little Miami River and the Mad River. These deposits are primarily sand and gravel outwash covered by more recent fine grained alluvium. The greatest thickness of unconsolidated materials is over 260 feet in the northwest corner of the study area.

Bedrock geology is shown on Plate 4 and Figure 3 is a general stratigraphic section for bedrock units within the study area. The geology depicted on Plate 4 is from the Ohio Division of Geologic Survey Bedrock Geologic Map of Ohio (BG-3, 2006). The uppermost bedrock over most of the study area is Silurian Age limestone and dolomite. In the river valleys and in the western part of the study area, the upper Silurian Dolomites have been removed by erosion and the uppermost bedrock is lower Silurian shales and dolomites and Ordovician rocks of the Cincinnati Group.

The hydrogeologic cross sections shown on Plates 5 and 6 were developed using water-well logs that were obtained from ODNR, which are included in Appendix A, and logs from on-site test borings that were drilled in 2013 and 2014 at the locations shown on Plate 1 and Figure 2. Logs for the test borings are included in Appendix B. Cross-section traces are shown on Plate 1.

Cross-Section A-A' (Plate 5) runs west to east through the center of the Enon Sand & Gravel property. In general, three hydrogeologic units are present. The unconsolidated materials are present as glacial till that overlies the carbonate bedrock throughout most of the study area. Alluvial silts and clays overlie deposits of outwash sand and gravel in the buried valleys.

The till thickness is generally less than 30 feet but reaches a thickness of 80 feet east of the Enon Sand & Gravel property. The carbonate bedrock is Silurian Age dolomite and shaley dolomite. The Silurian Age bedrock units are thicker and more continuous in the eastern part of the study area and are dissected by glacial outwash valleys to the west of the Enon Sand & Gravel property. The unconsolidated deposits and the carbonate bedrock are underlain by Ordovician Age shale.

Cross-Section B-B' (Plate 6) runs north to south through the proposed quarry areas. The stratigraphy along Cross-Section B-B' is generally similar to that described for Cross-Section A-A'. Cross-Section B-B' shows that there is a shale unit present within the carbonate bedrock sequence that is most likely the Massie Shale. The shale varies in thickness from about five to 30 feet and is only identified on some of the residential well logs. The residential wells are primarily drilled using rotary methods and the shale may not always be obvious from rotary cuttings, and/or may not be logged by the drillers.

Groundwater

The primary aquifer in the vicinity of the site is the Silurian Age carbonate bedrock. Residential and municipal water supply wells are completed in unconsolidated sand and gravel deposits in the buried bedrock valleys. As illustrated on the hydrogeologic cross sections (Plates 5 and 6), wells completed in the carbonate bedrock are sometimes completed in the upper part of the bedrock above the shale and sometimes penetrate the entire thickness of the carbonate bedrock. Plate 7 shows the groundwater resources within the study area as mapped by ODNR for Clark (Schmidt, 1982) and Greene (Schmidt, 1991) Counties. In general, yields of wells completed in the carbonate bedrock are greater in the eastern part of the study area and less to the west. The distribution of well yields generally correlates with aquifer thickness. The Ordovician bedrock is a poor producer of groundwater and is mapped as areas of less than three gallons per minute (gpm). Production potential for wells completed in sand and gravel in the outwash valleys is mapped as up to 1,000 gpm.

Plate 8 is a potentiometric surface map for the study area developed based on data from water-well logs obtained from ODNR. Groundwater flow is from the upland areas (recharge

areas) toward the valleys of the Mad River, Little Miami River and Mud Run (discharge areas). The potentiometric surface shown on Plate 8 was constructed using data from all of the wells in the study area. No clear distinction could be made between water levels from wells completed only in the upper bedrock versus those completed through the entire thickness of the carbonate strata. In large part this is likely due to the fact that deeper bedrock wells are only cased into the uppermost bedrock and have boreholes that are open to the entire thickness of rock below the casing depth. Water levels in wells that cross aquitards, such as the Massie Shale in this area, represent an intermediate water level that may not represent the true water level in either part of the aquifer.

The locations of public water supply wells (PWSs) within the study area are shown on Plate 1. Most of the PWSs are classified as Transient Non-Community or Non-Transient Non-Community systems. Municipal water supplies within the study area are the Village of Enon in the northwest part of the study area and Yellow Springs in the southwest part of the study area. The Enon wells are completed in sand and gravel outwash in the Mad River valley. Average daily production for Enon was approximately 620 gpm in 2014, according to water withdrawal data from ODNR. The Yellow Springs wells are completed in sand and gravel outwash in the Little Miami River valley. Average daily production for Yellow Springs was approximately 345 gpm in 2014, according to water withdrawal data from ODNR.

WATER-WELL LOGS AND DATA ANALYSIS

ODNR well-log data are available for over 1,989 wells within the study area. Well locations with ODNR well numbers are shown on Plate 1. Copies of the logs of the 300 wells closest to the Enon Sand & Gravel property are included on the disk in Appendix C. Table 1 is the water well database and lists the required hydrogeologic information for the well logs included on the disk in Appendix C. Wells used as calibration points for the model are listed on Table 2. These wells were selected to provide a good geographic distribution of calibration points throughout the model area.

Plate 9 is a map showing the distribution of specific-capacity data. Specific capacities for the majority of bedrock wells in the study area are less than 5.0 gpm/ft and inspection of the values shown on Plate 9 shows that many of the specific capacities are around 1 gpm/ft or less. Specific capacities for Bedrock wells, shown on Table 1, range from 0.05 to 58.33 gallons per minute per foot of drawdown (gpm/ft) and average 2.18 gpm/ft. Higher specific capacity wells in the bedrock tend to be located near stream valleys which may indicate fracturing of the bedrock in the valleys. Higher specific capacity wells are also associated with wells in unconsolidated sediments in the Mad and Little Miami River Valleys.

MODEL CONSTRUCTION

The finite difference, three dimensional groundwater flow model used for this analysis of quarry dewatering was MODFLOW2000, developed by the U.S. Geological Survey (USGS) (Hill et al., 2000) and modified by Environmental Simulations, Inc. The model is widely used in the public domain, is well documented, and is familiar to most groundwater flow modelers. MODFLOW is able to account for the effects of variations in aquifer properties, interactions with surface-water bodies and aquifer boundaries on potential drawdown from quarry dewatering.

The model boundary is shown on Plate 1. The modeled area is 43,200 feet northeast to southwest by 58,250 feet northwest to southeast with individual nodes being 100 feet square in the central area of the model stepping out to 500 feet square toward the model boundaries. This grid size was selected to adequately represent the quarry geometry and area streams. The Enon Quarry is generally centered within the model area. The north and south boundaries were selected to include, and generally parallel, the Mad and the Little Miami Rivers. East and west model boundaries are far enough from the quarry so that the boundaries do not affect simulated drawdown from quarry dewatering.

Figure 4 is a conceptual diagram of the groundwater flow model developed for this area. The carbonate bedrock is modeled as two layers, Layers 1 and 3 with the intervening shale simulated as Model Layer 2. The Ordovician shale below the carbonate aquifer is modeled as Layer 4. Unconsolidated deposits within the model area are simulated by relatively higher

hydraulic conductivity areas within Model Layers 3 and 4. The model represents groundwater flow in the carbonate bedrock and unconsolidated deposits in the deep buried bedrock valleys. Model Layer 1 is modeled as an unconfined layer so MODFLOW calculates the aquifer transmissivity based on the hydraulic conductivity and the saturated layer thickness. Model Layer 2 was assigned a constant thickness of 15 feet and has a top elevation of 908 feet, MSL and a bottom elevation of 893 feet, MSL. The top of the Ordovician bedrock was used as the top of Model Layer 4. The Ordovician bedrock surface dips to the northeast from an elevation of approximately 875 feet in the southwest corner of the model area to about 825 feet in the northeast corner of the model area. In areas where the bedrock valleys are incised below the top of the Ordovician bedrock, the extrapolated surface of the Ordovician bedrock is used as the top elevation of the Layer. MODFLOW Layer type 3 was used for Layers 2, 3, and 4 so that the model will simulate confined aquifer conditions when the water level elevation is above the top of the model layer and unconfined conditions when water levels are below the top of the layer.

The model grid and boundary conditions are shown on Figures 5 through 8 for Model Layers 1 through 4, respectively. Inactive nodes were placed in parts of Model Layers 1 through 3 where the ground elevation is below the bottom elevation of the layer. Model heads are controlled by the interaction of the river nodes used to simulate the area streams, recharge from precipitation, constant heads, and aquifer hydraulic conductivities. Reaches of rivers are assigned to each layer based on elevation. Drain nodes are used in Layers 1, 2, and 3 to simulate quarry dewatering within the Phase areas shown on the figures. Boundary nodes not assigned as constant-head or river nodes are no-flow boundaries. The bottom of Model Layer 4 is also a no-flow boundary.

River and stream elevations were assigned based on topographic map elevations. The Mad River was simulated as being 100 feet wide and three feet deep. The Little Miami River was simulated as being 75 feet wide and two feet deep. The river widths are based on estimates from aerial photography. All other streams were simulated with widths of 15 feet and depths of one foot.

The streambed permeability used for the Little Miami River was 0.5 gpd/ft² which is the average of values used by the USGS for the Simulation of Ground-Water Flow, Dayton Area, Southwestern Ohio (Dumouchelle, 1998). The streambed permeability used for the Mad River was 3.3 gpd/ft² which is an average value of data from near the Wright Patterson Air Force Base (just west of the model area), referenced on Table 3 of Dumouchelle, 1998. A streambed permeability of 0.5 gpd/ft² was used for all other streams simulated within the model.

Recharge from precipitation was applied to the highest active model layer. The model recharge distribution is shown on Figure 9. The distribution of recharge values is based on a combination of zones defined by the groundwater resources mapping shown on Plate 7 with increased recharge, primarily in upland areas, that was determined during model calibration. Recharge values for zones representing unconsolidated outwash sand and gravel in the Mad River Valley (11 inches per year) and the Little Miami River Valley (nine inches per year) were based on data from Dumouchelle and Schiefer (2002). Recharge to areas overlying the carbonate aquifer was initially set to a uniform value of two inches per year, but resulting model heads did not provide a good simulation of the mapped potentiometric surface. Recharge values for the carbonate aquifer used by ODNR in the Ground Water Pollution Potential of Clark County, Ohio (Vormelker, Angle and Jones, 1995) ranged from four to seven inches per year. The recharge distribution shown on Figure 9 generally reflects higher rates of recharge in upland areas with relatively thinner drift thickness and lower rates of recharge in areas of thicker drift or steeper surface topography.

Model hydraulic conductivity values for Layers 1, 3 and 4 are shown on Figures 10 through 12. The hydraulic conductivity of Model Layer 2 is a uniform 2.1 gpd/ft². The hydraulic conductivity distributions shown on Figures 10 through 12 are based on the areas defined by the groundwater resources mapping shown on Plate 7. Hydraulic conductivity values for the zones common to Layers 1 and 3 are identical. The distribution is only different due to the relative extent of inactive nodes in each layer. Hydraulic conductivities for the carbonate aquifer were determined during model calibration and values were adjusted for each zone in relation to the groundwater production potential indicated on Plate 7. Based on model heads and layer thicknesses, the highest transmissivity for the carbonate aquifer is about 25,000 gpd/ft.

The hydraulic conductivity values used for the outwash aquifer in the Mad River Valley (972 gpd/ft² and 5,610 gpd/ft²) are based on the range of values cited in the report “Ground-Water Contribution from the Silurian/Devonian Carbonate Aquifer to the Mad River Valley, Southwestern Ohio” (Sheets and Yost, 1994). The hydraulic conductivity used for the outwash aquifer in the Little Miami River Valley (2,094 gpd/ft²) is the low end of the range of values used for a groundwater flow model developed for the Little Miami River Valley aquifer near Milford, Ohio (Mercurio, Milovan, and Maynard, 1999). Hydraulic conductivities for the shale units in Layers 2 and 4 were determined during model calibration.

Quarry dewatering was simulated using drains at nodes that represent the quarry. Drain elevations in Layer 3 were set at the planned bottom of quarry elevations for each quarry phase, shown on Figure 2. Drains were also used within the quarry phase boundaries in Layers 1 and 2 with elevations set near the bottom of each layer. Drain conductance was set high enough so that only head difference and hydraulic conductivity control the flow of water into the drain nodes.

MODEL CALIBRATION

The groundwater flow model was calibrated to simulate the groundwater flow contours shown in blue on Plate 8. Plate 8 shows model heads for current conditions, i.e. no dewatering from the quarry. Calibrated model heads from Model Layer 3 also are shown on Plate 8, for comparison, and show good agreement between contoured and modeled heads. The simulation of background conditions includes production from the municipal supply wells operated by the Village of Enon and Yellow Springs. Withdrawal rates for the Enon and Yellow Springs wells are based on water withdrawal reported to ODNR for 2014. 2014 water withdrawal for Enon was reported to be an average of 623 gpm. Pumpage in the model was evenly distributed between the three Enon wells (208 gpm per well). 2014 water withdrawal for Yellow Springs was reported to be an average of 344 gpm. Pumpage in the model was evenly distributed between the four Yellow Springs wells (86 gpm per well).

Calibration targets were selected to provide good spatial coverage over the modeled area. Water wells used for calibration are listed on Table 2. Water-level elevations from wells

completed above the shale were assigned to Model Layer 1 for calibration. Water-level elevations from wells with a surface elevation below 908 feet (the bottom of Model Layer 1) were assigned to Layer 3 for calibration. Water-level elevations from wells that have boreholes that are open to the carbonate bedrock above and below the shale were assigned to both Model Layers 1 and 3 for calibration. As discussed in the section on groundwater, water levels in wells that cross aquitards, such as the Massie Shale in this area, represent an intermediate water level that may not represent the true water level in either part of the aquifer.

Figure 13 is a scatter plot showing the comparison between model heads and heads from well-log data for 865 calibration targets. Figure 14 is a histogram of the residuals. These graphs show that modeled heads are on average in good agreement with the well-log data. The coefficient of determination for the linear fit that indicates the line of perfect agreement between the two data sets is 0.99976. Scattering about the perfect fit (zero residual) is expected since well-log data within the model area reflect water levels from wells drilled over the course of many years, in different seasons, and to different completion depths. The accuracy of the well-log data and the accuracy of the ground elevations used for determination of the water-level elevations are additional sources of error. The accuracy of well location relative to ground elevation can be a particularly large source of error in areas where the topography is relatively steep.

Residuals are mapped on Plate 10 for Model Layer 1 and on Plate 11 for Model Layer 3. The maps show that there is generally a good spatial mix of positive and negative residuals. There are two areas where calibration to the water-level elevations determined from well logs was problematic. One is the area northwest of the Phase II quarry area. Modeled heads in this area are consistently lower than reported water levels for wells completed above the shale (Layer 1 wells) and higher than water levels reported for wells that are completed to the base of the carbonate aquifer and are open above and below the shale. Well-log data from this area were examined to investigate the potential for a systematic change of water levels over time, but no systematic change was identified. There also was no correlation between water-level elevation and well depth. The modeled water levels in this area are between the measured water levels for the two sets of wells (Layer 1 and Layer 3) and residuals for other calibration points near the Phase II quarry area do not show any similar discrepancies.

Water-level elevations from well-log data are also lower than modeled water levels in a small area about two miles southwest of the Phase I quarry area. These water levels are anomalously low and cannot be explained with the available data.

QUARRY EXPANSION SIMULATIONS

Quarry dewatering was simulated in two phases. All model simulations are steady-state simulations. The phasing plan for excavation and dewatering is shown on Figure 2. The Phase I area will be quarried first and will be allowed to refill concurrent with the start of quarrying of the Phase II area. Both phases will not be dewatered at the same time.

Model drawdowns at the completion of quarry Phase I are shown on Plate 12. The drawdown contours represent the change in water level from current conditions that may result from dewatering of the quarry to the bottom elevations shown on Figure 2. The 10foot drawdown contour has a maximum extent of approximately 4,500 feet to the south of the Phase I quarry area. Drawdown contours for Phase II dewatering are shown on Plate 13. The Phase II simulation includes flooding of the Phase I quarry pit to 930 feet, MSL. The 10foot drawdown contour on Plate 13 has a maximum extent of approximately 3,600 feet to the north of the Phase II quarry area. Potentiometric surface maps for each phase of dewatering are shown on Plates 14 and 15 for quarry Phases I and II, respectively.

Groundwater flow model budgets for the simulation of current conditions, and the quarry dewatering simulations are shown on Table 3. In general, the model budgets show an increase in water pumped from the quarry during dewatering simulations and changes in the amount of water entering and leaving the model via the river and constant head nodes. Small reductions in the amount of recharge by precipitation are due to dewatering of model nodes during the quarry simulations. The changes in the flux of the constant head nodes for Phase I dewatering are relatively small and indicate that drawdown at the model boundaries is small and does not exert a significant influence on fluxes at the model boundaries. The larger change in constant head fluxes in the Phase II quarry simulation is due to the use of constant heads to simulate flooding of

the Phase I quarry area. Quarry pumpage is about 260,000 gallons per day (gpd) for Phase I dewatering and 520,000 gpd for Phase II dewatering.

GROUNDWATER MONITORING

Prior to initiation of quarry dewatering, all of the wells encompassed by the Phase I 10-foot drawdown contour (Plate 12) will be surveyed to update and expand the pre-mining database on groundwater levels and water quality. A network of key wells will be selected and measured annually to monitor groundwater levels. The residential well survey and monitoring network will be expanded as appropriate for Phase II so that the effect of quarry operations on groundwater levels can be accurately assessed and remedial measures can be performed if needed.

GROUNDWATER REMEDIATION

If existing groundwater wells are adversely affected by quarry operations, appropriate remedial measures will be taken by Enon Sand & Gravel. The monitoring program should provide the information needed to enable anticipation of any significant impacts so that remedial action can be accomplished before a problem or interruption of water supply for critical users potentially occurs. Remedial measures may include lowering of pumps, deepening of existing wells, or installation of replacement wells. Enon Sand & Gravel will confer with the landowners and restore their water supply through mutually agreeable means, if and when water supplies of existing users are impaired by the quarry operations.

CONCLUSIONS

Based on the groundwater flow model, the maximum groundwater discharge from the quarry is estimated to be approximately 260,000 gpd for Phase I dewatering and 520,000 gpd for Phase II dewatering. Model simulations show that the maximum drawdown could exceed 50 feet at the nearest residential well locations. The results from the model analysis are theoretical and represent only the general magnitude of impacts that might be expected. Groundwater

monitoring data from other quarries indicates that drawdowns of this magnitude do not extend far beyond the quarry.

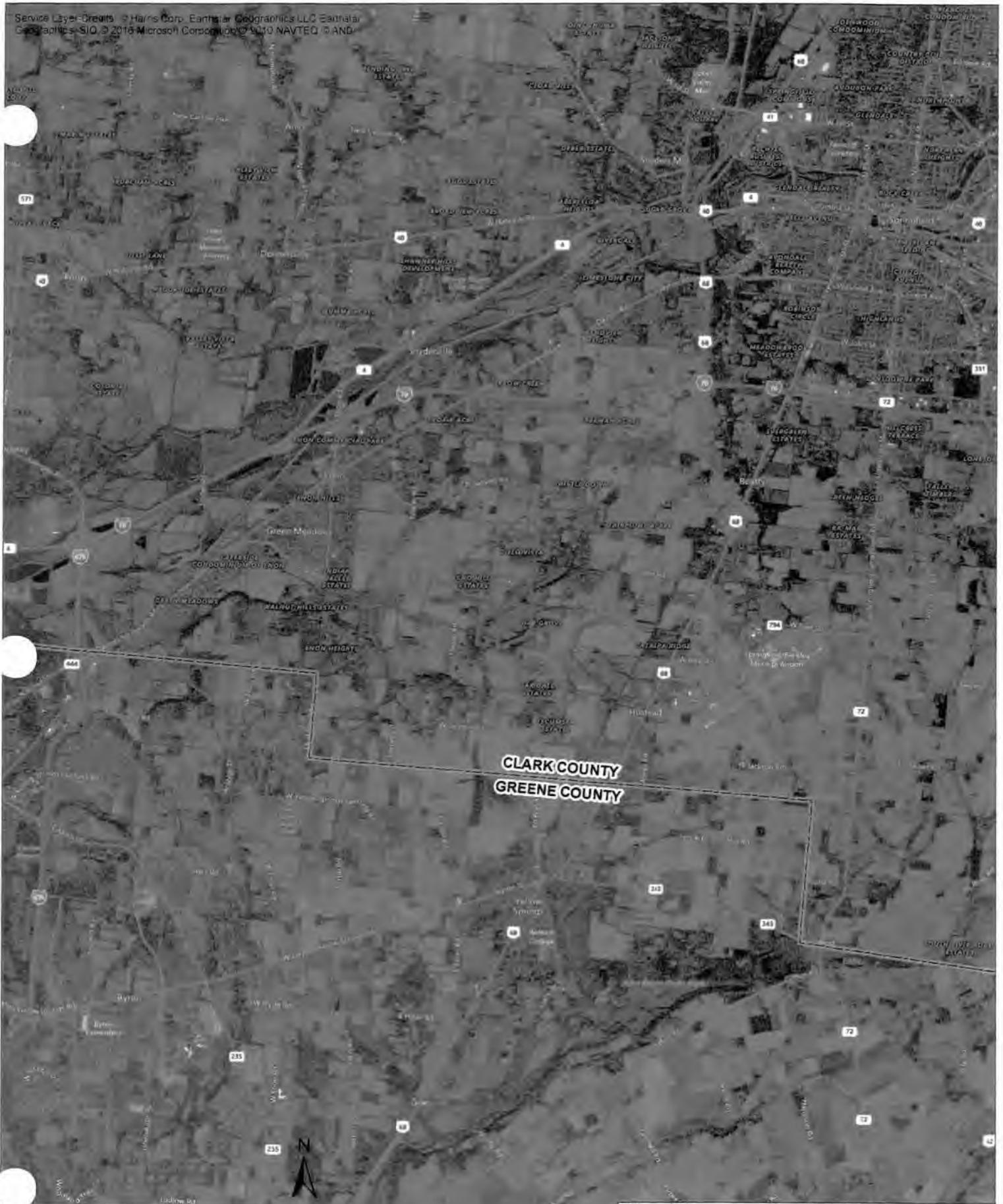
The groundwater flow model is constructed using reasonable inputs for hydrogeologic parameters and is calibrated to current conditions. However, experience indicates that the drawdowns shown on Plates 12 and 13 may be exaggerated. These Plates depict the theoretical drawdown to be expected if wells are fully connected to the bedrock aquifer, which is seldom the case. The actual effect, or lack thereof, on any individual well will be governed by the degree of interconnection between the boreholes of individual wells and the water-producing zones that actually contribute flow to the quarry excavations. Further, it is pointed out that the water-level changes that may result from the mining operation will occur over time as the excavation expands, giving ample time to observe actual effects and take appropriate remedial action. Complete dewatering of the carbonate aquifer will only occur within the quarry so there will be sufficient saturation within the aquifer outside of the quarry for replacement or deepening of impacted wells at any location.

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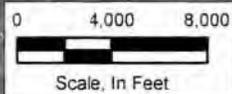
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FIGURES

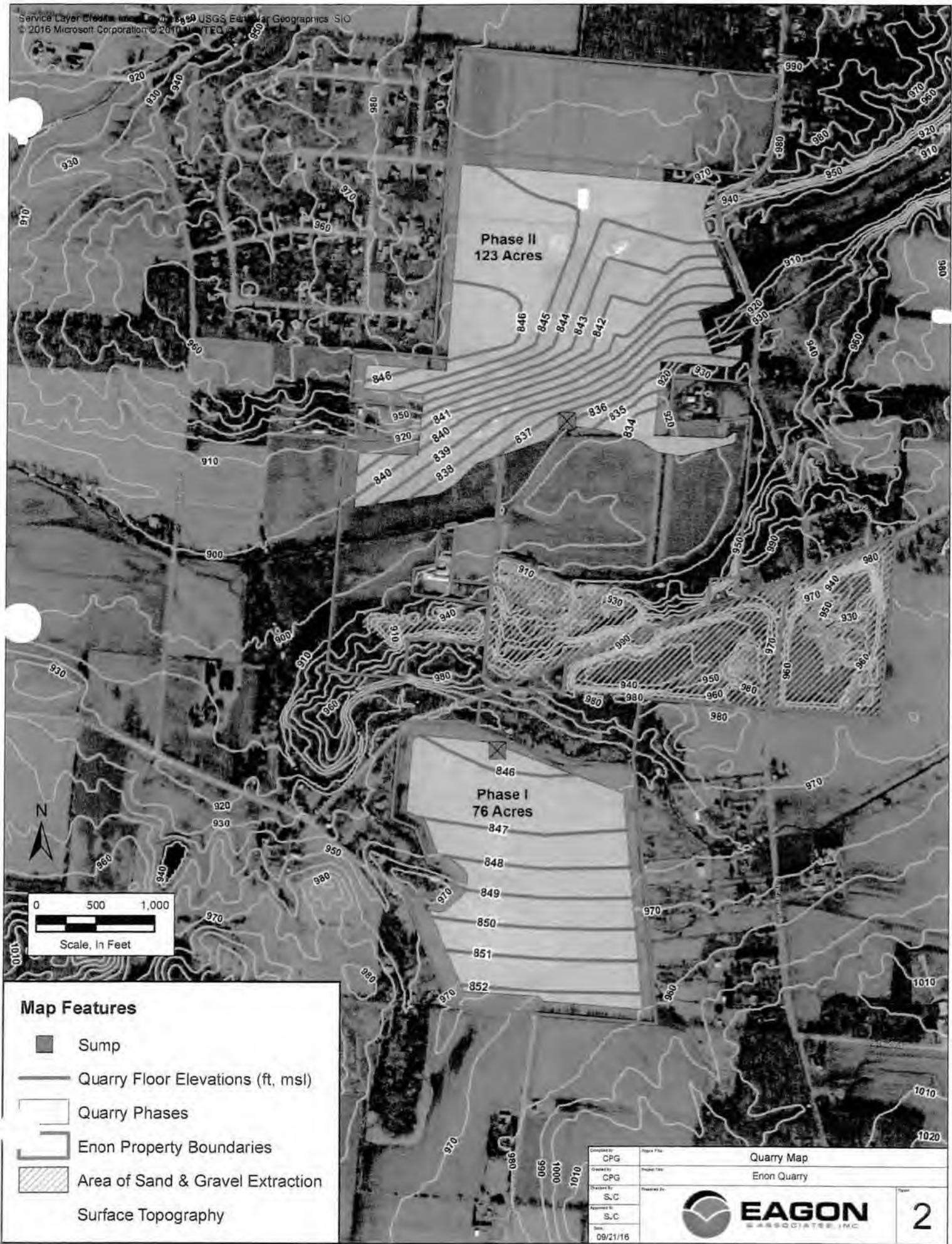


Map Features

 Enon Property Boundaries



Compiled by CPG	Figure Title General Location Map
Drewn by CPG	Project Title Enon Quarry
Drawn by SJC	Prepared by
Approved by SJC	 EAGON ASSOCIATED, INC.
Date 09/21/18	Page 1



Map Features

- Sump
- Quarry Floor Elevations (ft, msl)
- Quarry Phases
- Enon Property Boundaries
- Area of Sand & Gravel Extraction
- Surface Topography

Compiled by: CPG	Project File:	Quarry Map
Created by: CPG	Project Title:	Enon Quarry
Drawn by: S.C	Checked by:	
Approved by: S.C	Date:	
Date: 09/21/16		

(Shrake, 1995)

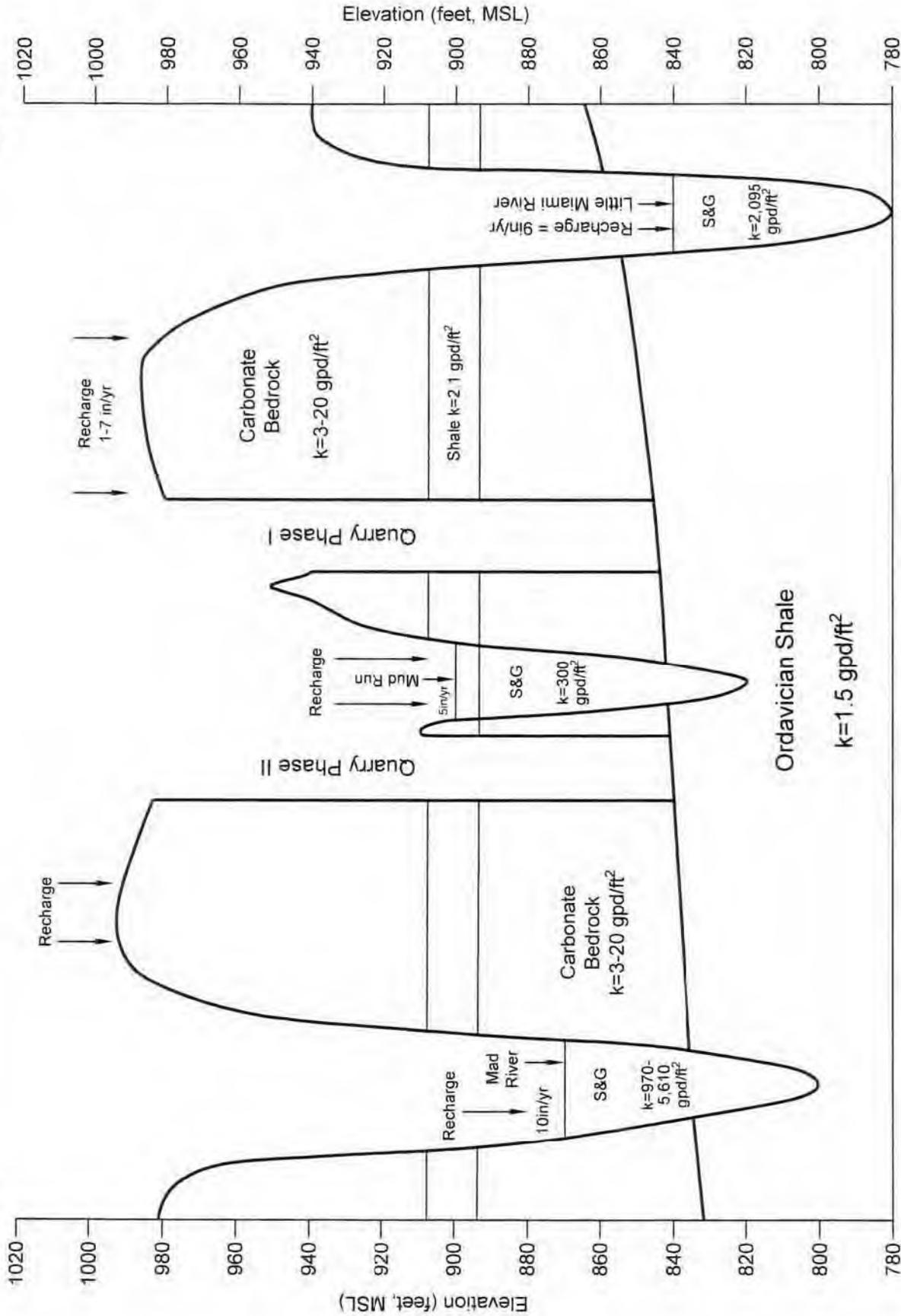
FIGURE 3. GENERAL STRATIGRAPHIC SECTION OF CLARK COUNTY

SYSTEM	SILURIAN		ORDOVICIAN	
SERIES	Cayugan	Niagaran	Alexandrian	Cincinnatian
Map Area: A	Undifferentiated Salina	Lockport Dolomite	Sub Lockport	Undifferentiated Ordovician
Map Area: B	Tymochtee Dolomite	Cedarville Dolomite Springfield Dolomite Euphemia Dolomite	Massie Shale Laurel Limestone Osgood Shale Dayton Limestone Brassfield Limestone	Undifferentiated Ordovician
Map Area: C	Undifferentiated Salina Greenfield Dolomite	Greenfield Dolomite	Sub Lockport	Undifferentiated Ordovician



North

South



Horizontal - Not to Scale
 Vertical Scale - 1"=40'

COMPILED BY	FIGURE TITLE
SJC	CONCEPTUAL CROSS SECTION OF THE GROUNDWATER FLOW MODEL
DRAFTED BY	PROJECT TITLE
MAM	ENON QUARRY
CHECKED BY	PREPARED BY
SJC	
APPROVED BY	FIGURE NUMBER
ACR	4
DATE	
09/16/2016	



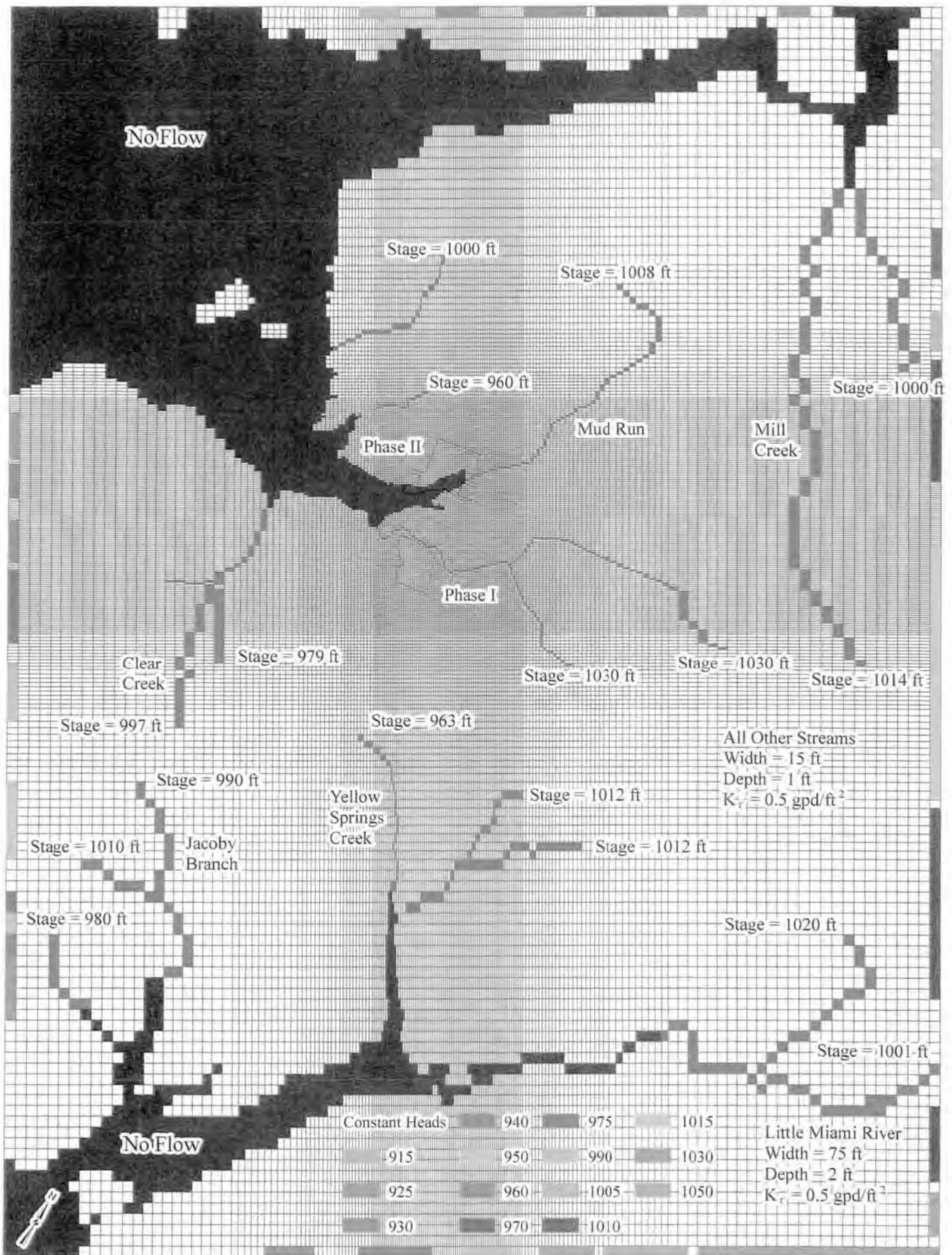


FIGURE 5. MODEL GRID AND BOUNDARY CONDITIONS - LAYER ONE

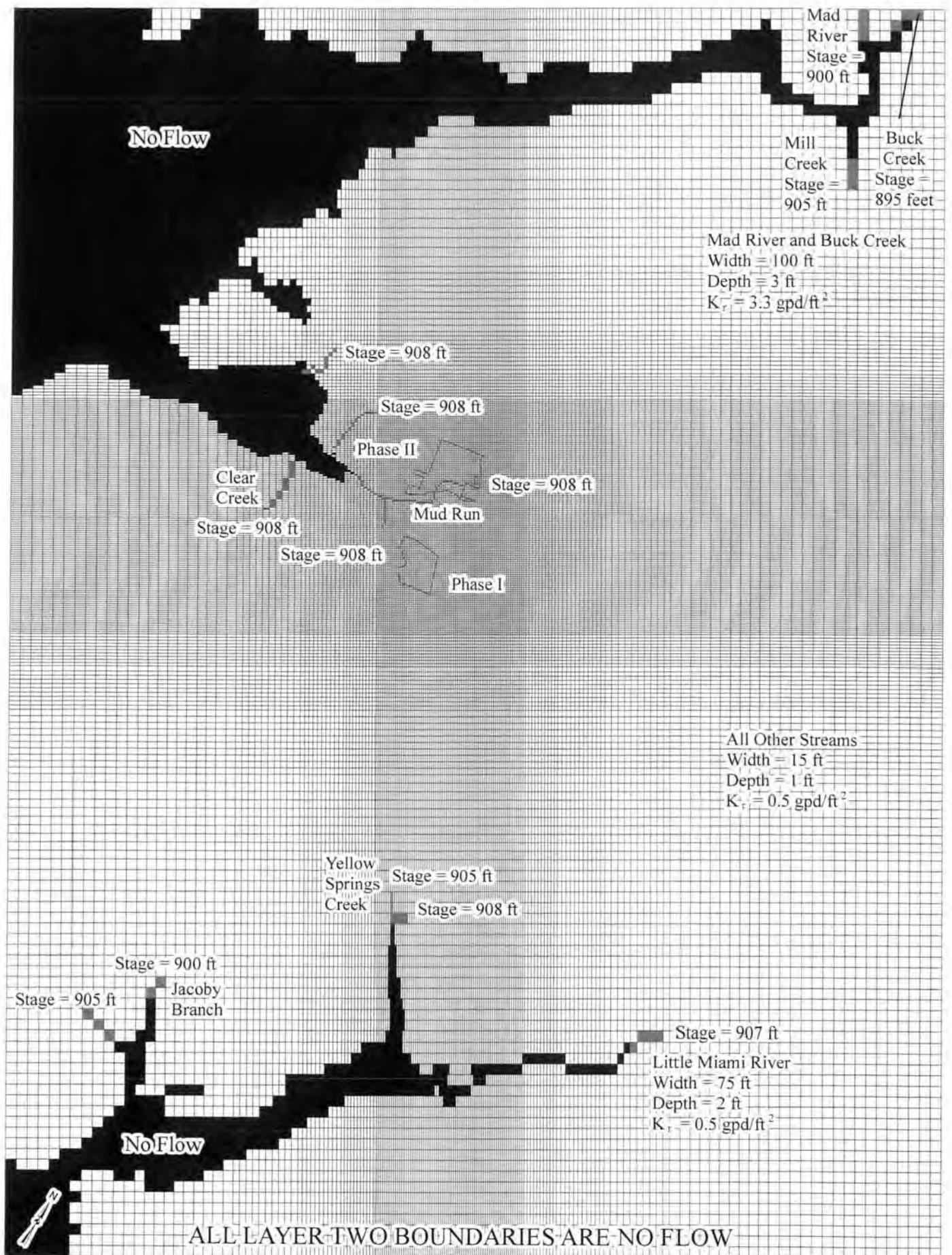


FIGURE 6. MODEL GRID AND BOUNDARY CONDITIONS - LAYER TWO

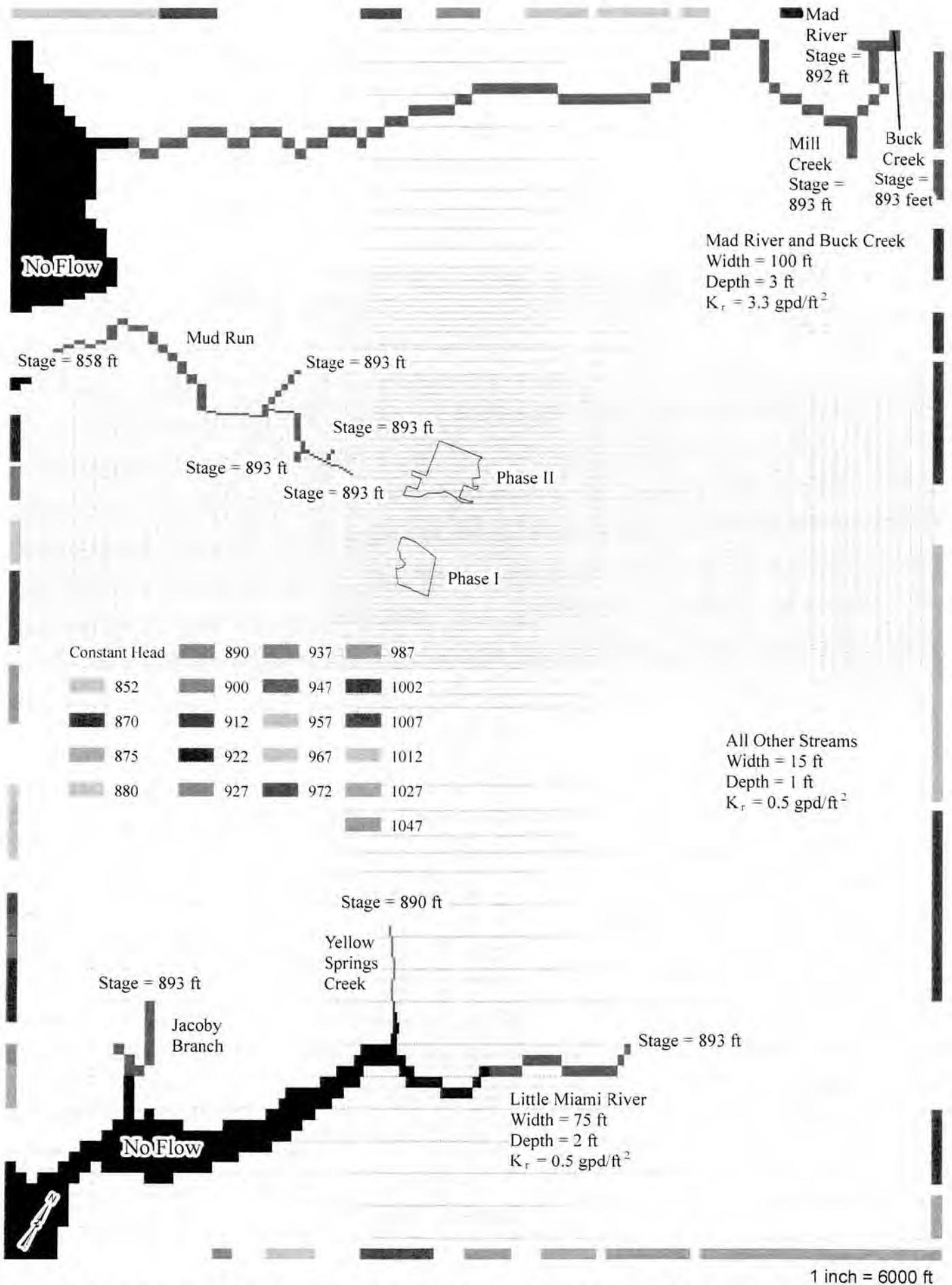


FIGURE 7. MODEL GRID AND BOUNDARY CONDITIONS - LAYER THREE

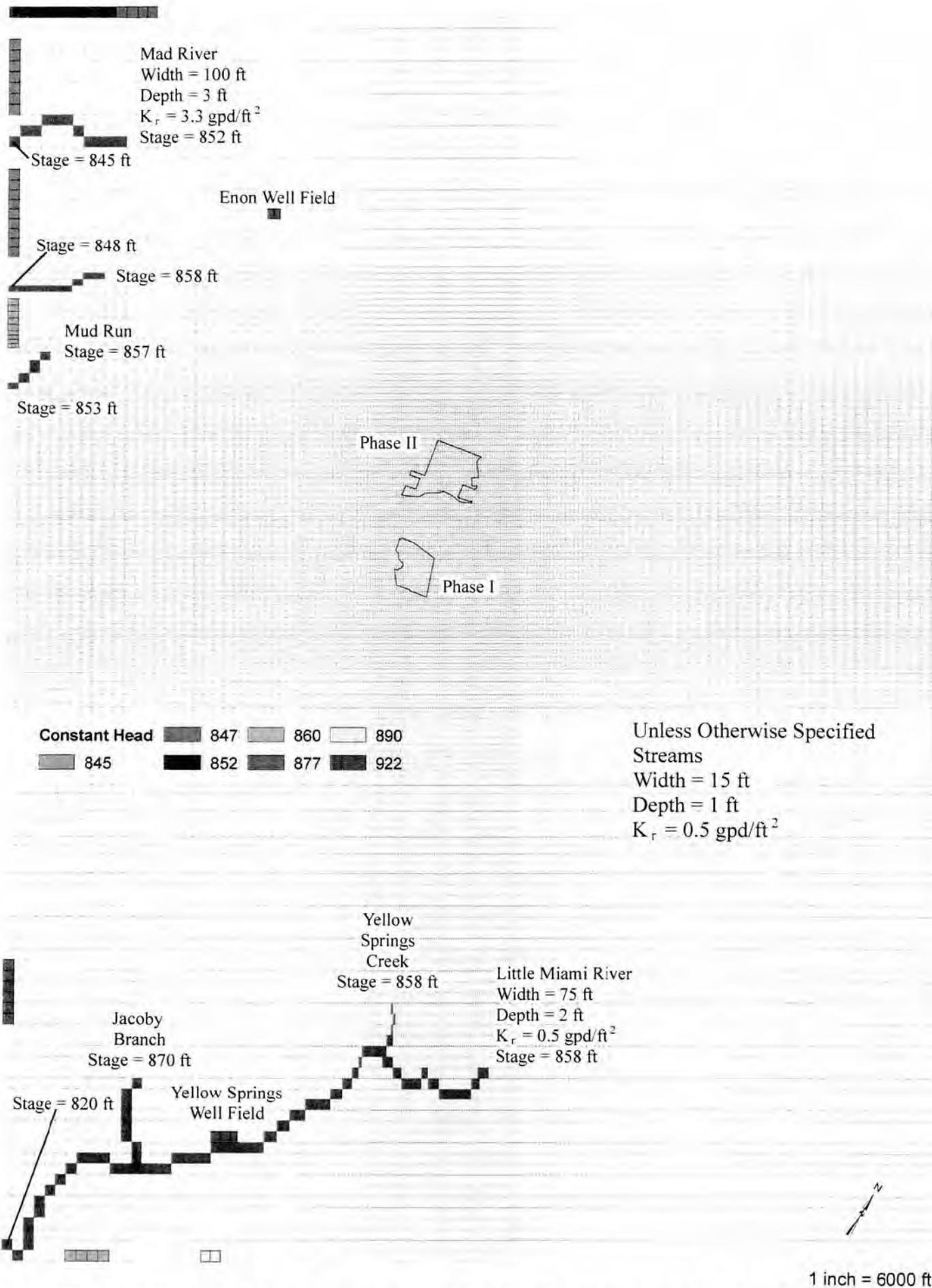


FIGURE 8. MODEL GRID AND BOUNDARY CONDITIONS - LAYER FOUR

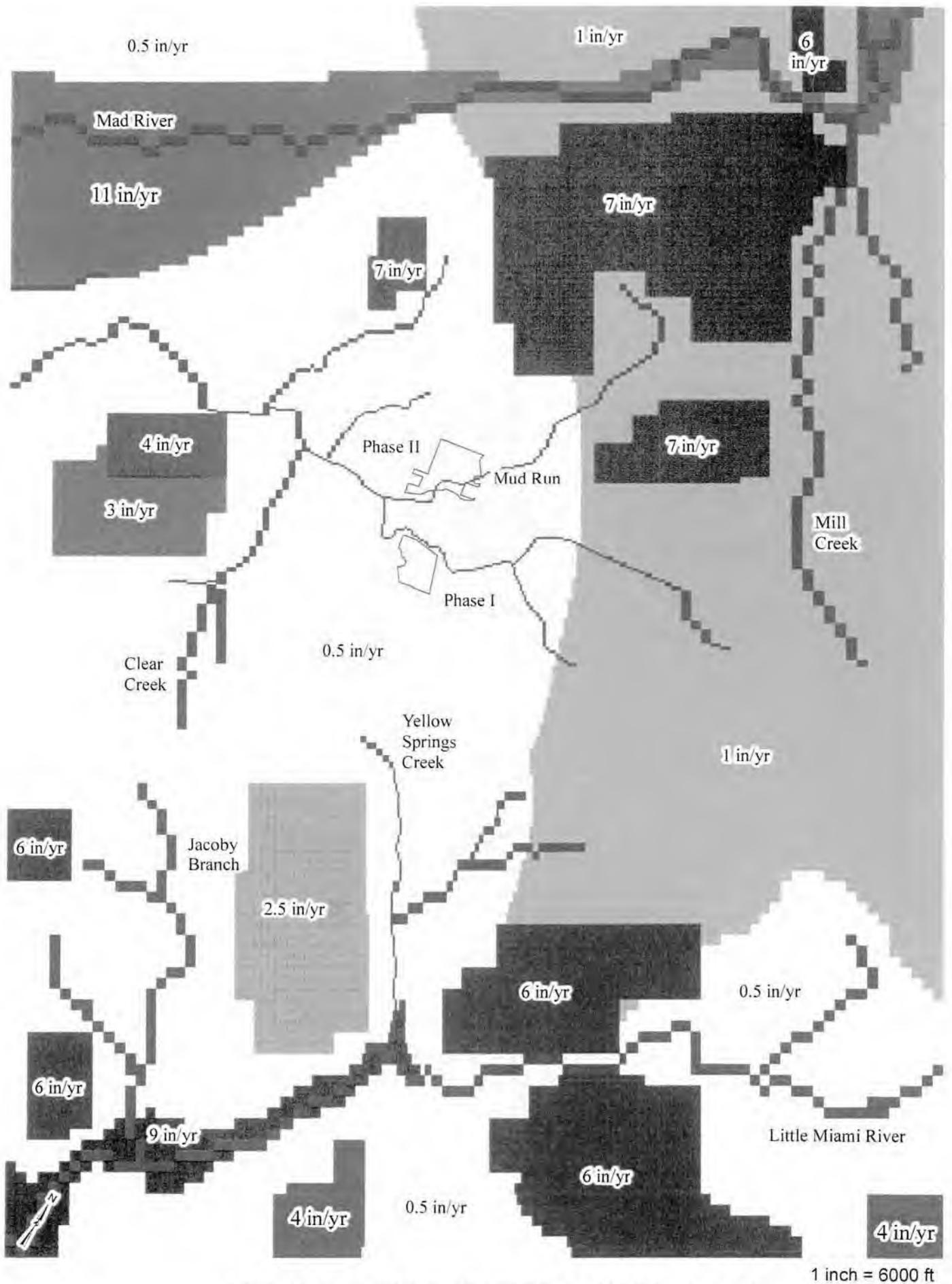


FIGURE 9. MODEL RECHARGE DISTRIBUTION

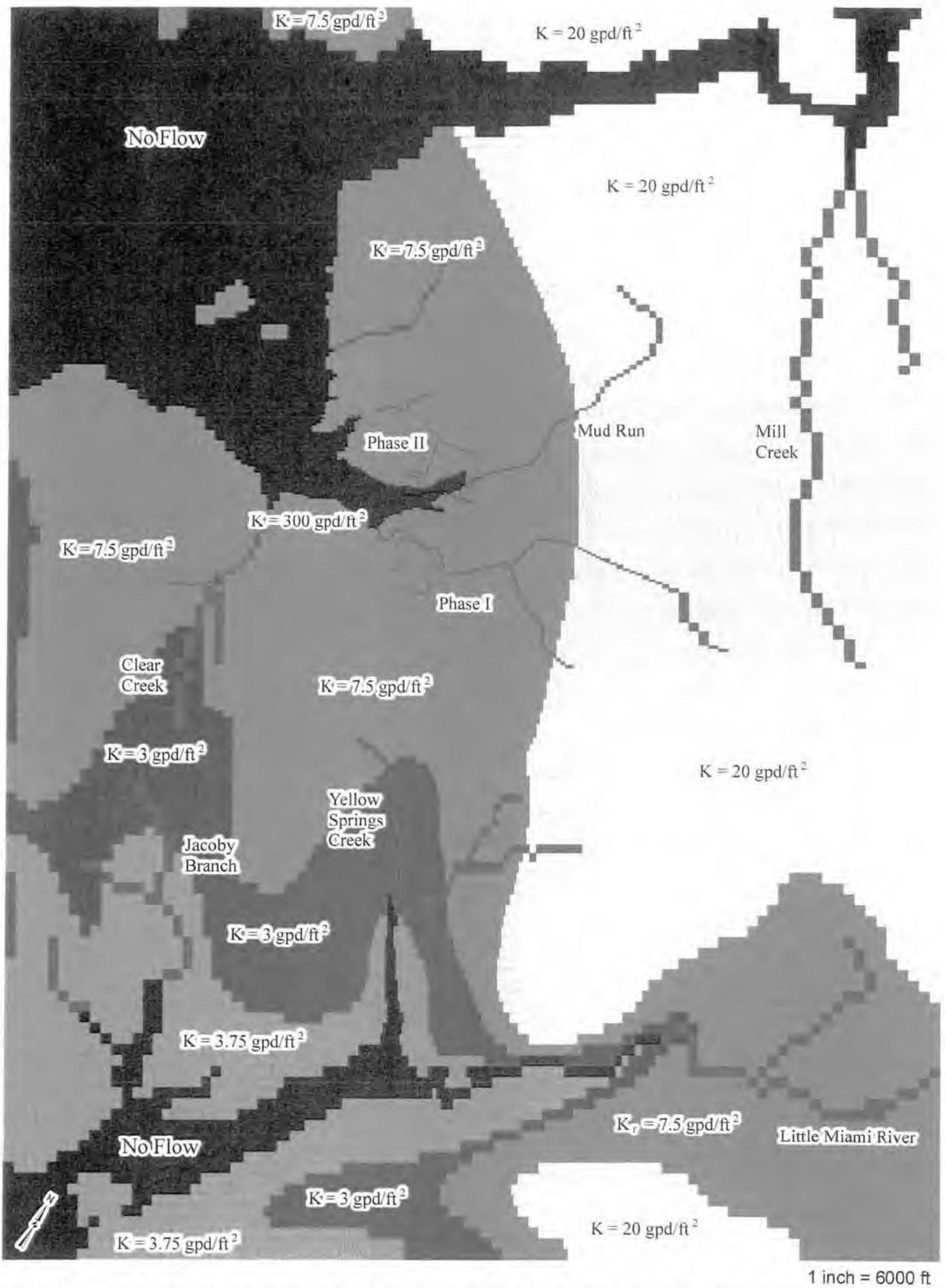


FIGURE 10. MODEL HYDRAULIC CONDUCTIVITY (K) DISTRIBUTION - LAYER ONE

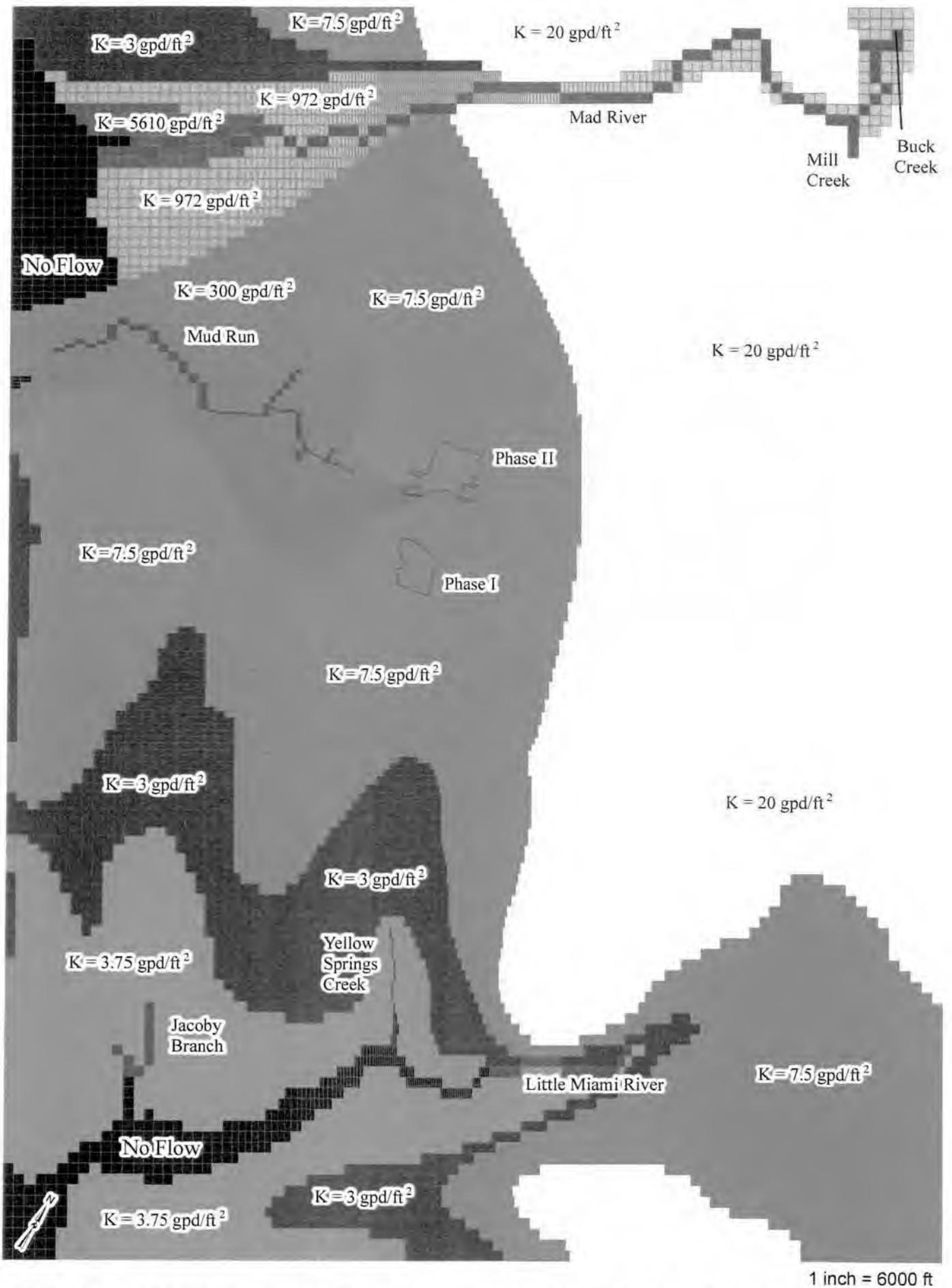
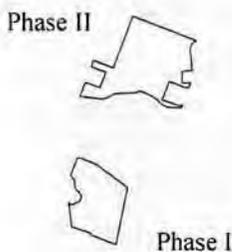
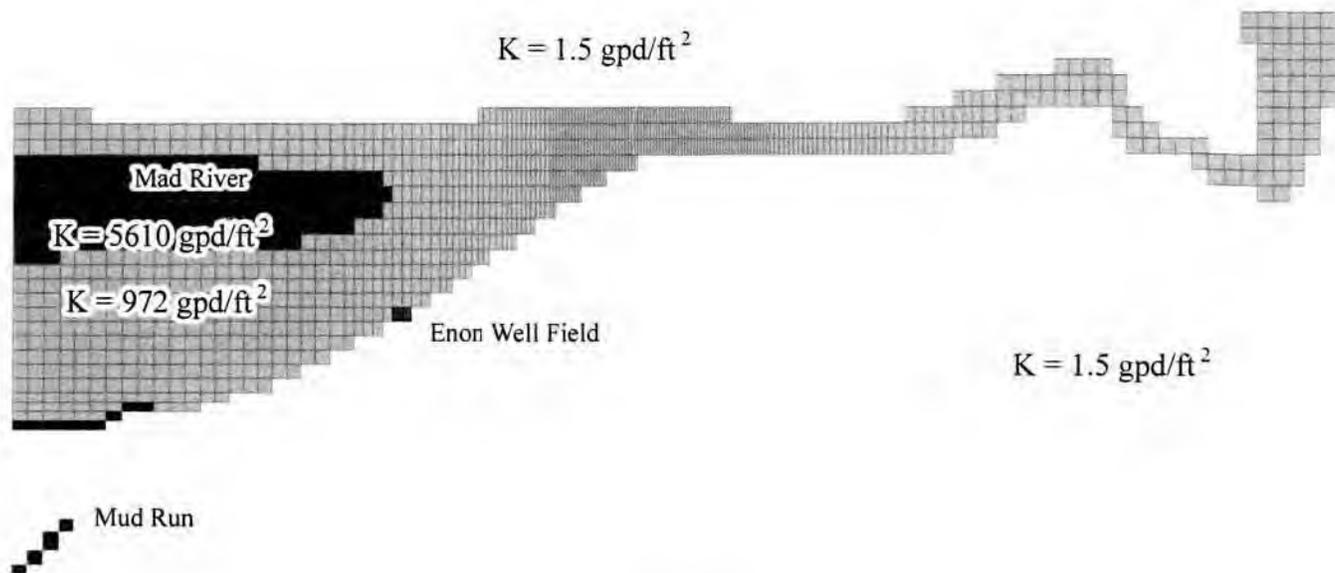
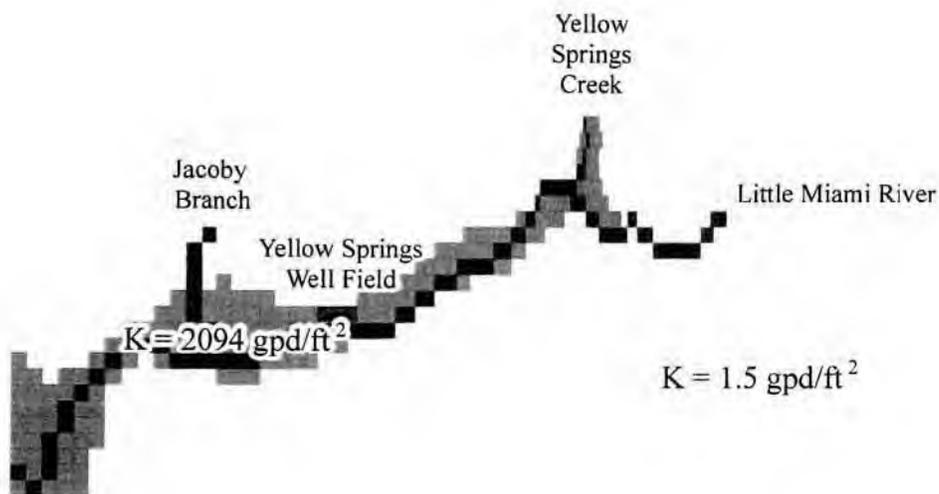


FIGURE 11. MODEL HYDRAULIC CONDUCTIVITY (K) DISTRIBUTION - LAYER THREE



$K = 1.5 \text{ gpd/ft}^2$

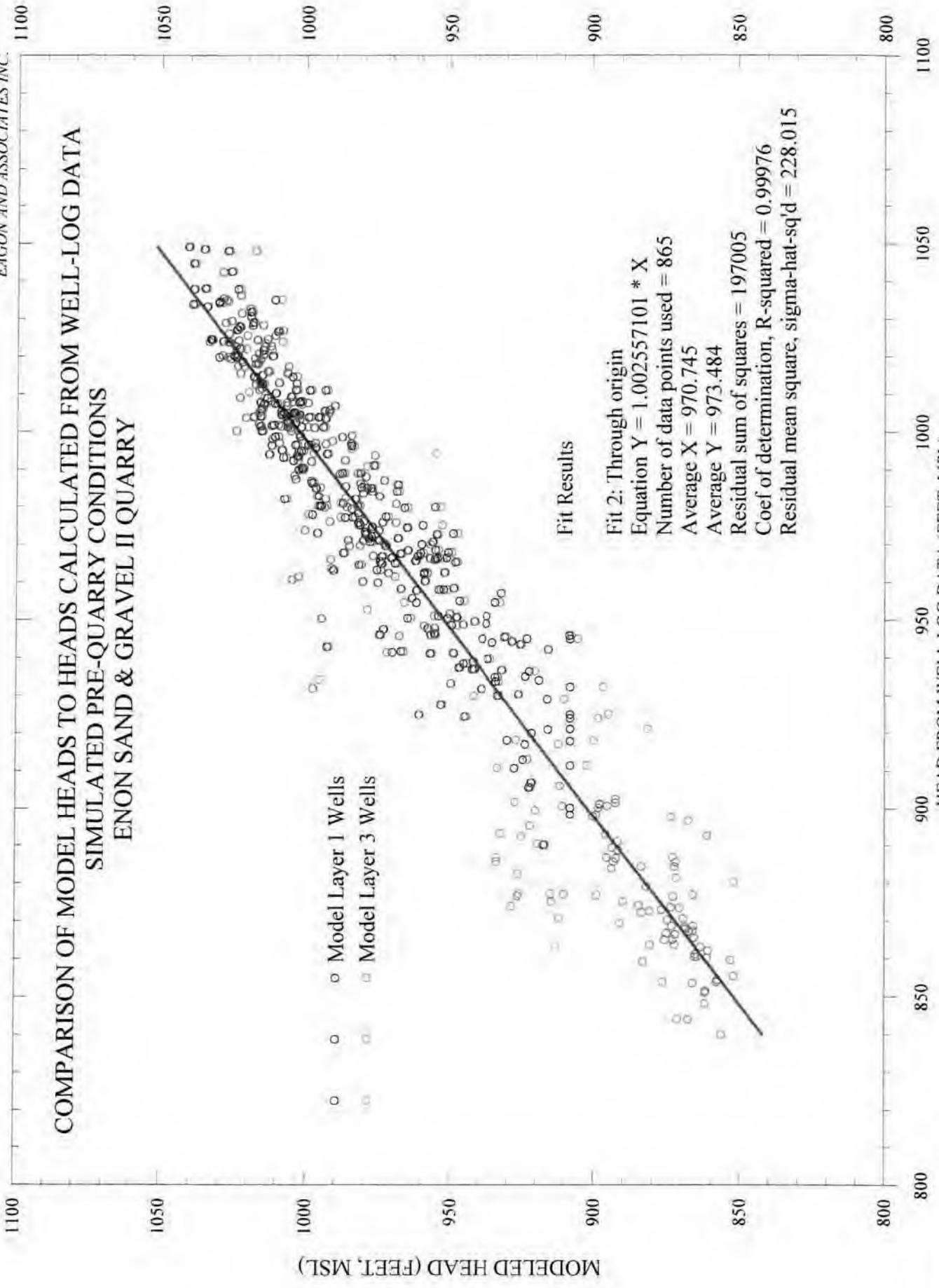
$K = 1.5 \text{ gpd/ft}^2$



1 inch = 6000 ft

FIGURE 12. MODEL HYDRAULIC CONDUCTIVITY (K) DISTRIBUTION - LAYER FOUR

COMPARISON OF MODEL HEADS TO HEADS CALCULATED FROM WELL-LOG DATA SIMULATED PRE-QUARRY CONDITIONS ENON SAND & GRAVEL II QUARRY



○ Model Layer 1 Wells
□ Model Layer 3 Wells

Fit Results

Fit 2: Through origin
Equation $Y = 1.002557101 * X$
Number of data points used = 865
Average $X = 970.745$
Average $Y = 973.484$
Residual sum of squares = 197005
Coef of determination, R -squared = 0.99976
Residual mean square, σ -hat-sq'd = 228.015

FIGURE 13.

HISTOGRAM OF RESIDUALS FROM COMPARISON OF MODEL HEADS
TO HEADS CALCULATED FROM WELL-LOG DATA
SIMULATED CURRENT CONDITIONS
ENON SAND & GRAVEL II QUARRY

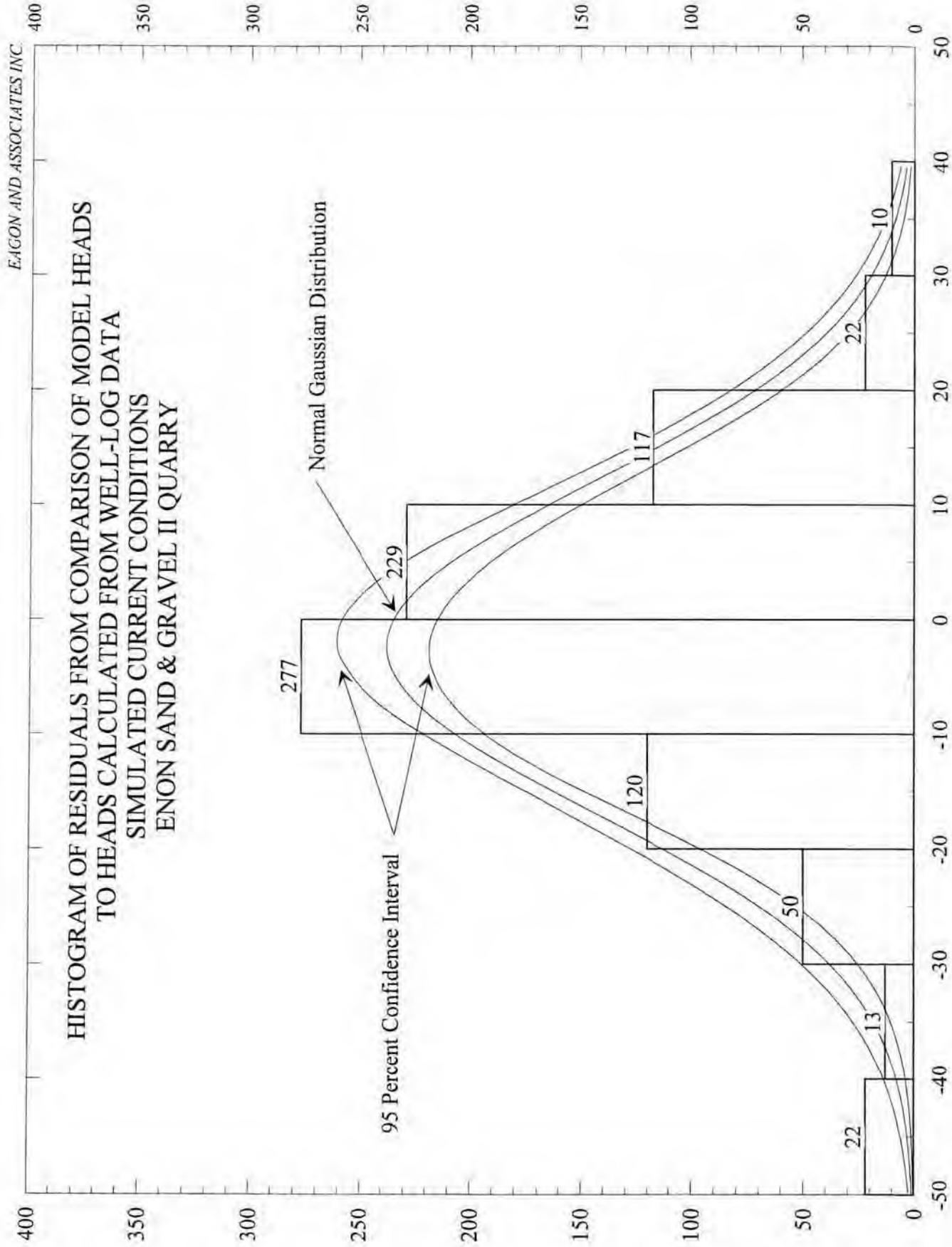


FIGURE 14.

TABLES

TABLE I.
WATER WELL DATABASE
ENON SAND GRAVEL II QUARRY
(All Wells are in Clark County, Ohio)

Map / ODNR Log #	Township	Completion Date	Latitude	Longitude	Ground Elevation (Feet, MSL)	Total Depth (Feet)	Depth to Bedrock (Feet)	Bedrock Elevation (Feet, MSL)	Aquifer Type	Static Water Depth (Feet)	Casing Length (Feet)	Screen Length (Feet)	Test Rate (gpm)	Test Duration (Hours)	Drawdown (Feet)	Water-Level Elevation (Feet, MSL)	Specific Capacity (gpm/ft)	
32257	Mad River	4/23/1948	39.831752	-83.879214	1033.84	44			Limestone	36			20	2	4	997.8403127	5.00	
33526	Mad River	6/17/1948	39.877684	-83.880696	1013.36	40			Limestone	10			15	2	10	1003.358689	1.50	
33546	Mad River	9/18/1948	39.875207	-83.891424	1015.58	45	36	979.58	Limestone	19			8	1	7	996.3791686	1.14	
58217	Mad River	1/19/1951	39.856246	-83.873859	989.45	36			Limestone	20			20	2	4	969.4459985	3.00	
63761	Mad River	2/10/1950	39.862695	-83.87166	1019.73	39	13	1006.73	Limestone	2			6	1	24	1017.728431	0.25	
63771	Mad River	4/20/1951	39.875068	-83.879518	1003.16	64			Limestone	12			7	1	30	991.1619329	0.23	
63786	Mad River	7/1/1950	39.876479	-83.893633	1014.97	93			Sand	35			12	1	16	979.9662281	0.75	
63787	Mad River	7/23/1950	39.844526	-83.88918	967.52	74			Limestone	12			10	1	15	955.3225105	0.67	
63792	Mad River	8/1/1950	39.872128	-83.879744	994.48	78			Limestone	13			12	1	15	981.4830878	0.80	
65518	Mad River	11/12/1949	39.870612	-83.917656	933.29	86			Limestone	35			11	1	15	898.2865777		
86161	Mad River	2/1/1951	39.872363	-83.878384	975.04	103			Shale	14			4	2	80	961.0409186	0.05	
86199	Mad River	7/1/1951	39.876295	-83.879542	1008.28	67			Shale	14			10	1	22	994.2808311	0.45	
87754	Mad River	9/1/1950	39.872107	-83.888941	1009.71	50	9	951.47	Limestone	25			7	2	6	984.7085208	1.17	
87755	Mad River	9/1/1950	39.872107	-83.888941	1009.71	50			Limestone	30			350	1	6	1002.859937	58.33	
87811	Mad River	11/1/1951	39.840243	-83.865363	1032.86	50			Shale	25			3	2	30	944.7682005	0.10	
87966	Mad River	39.871486	-83.878424	969.77	65				Limestone	18						946.053945		
93103	Mad River	39.867298	-83.900924	964.05	55				Limestone	66						837.0846159		
100170	Mad River	39.857551	-83.891927	903.08	106				Limestone	90			10	1	0	870.4652285		
100180	Mad River	39.869558	-83.879456	960.47	120				Limestone	19			10	1	9	992.3113842	1.11	
109446	Mad River	39.873671	-83.887192	1011.31	45				Limestone	19			20			932.2325148		
123318	Mad River	10/24/1953	39.869044	-83.917833	932.23	95	27	905.23	Shale	76						872.260041		
123350	Mad River	11/2/1954	39.867683	-83.880681	948.26	120			Limestone	18						1007.614901		
127199	Mad River	9/3/1955	39.828603	-83.880122	1025.61	74			Limestone	35			6	2	5	899.7624553	1.20	
127325	Mad River	11/17/1954	39.846189	-83.90404	934.76	78			Limestone	13			10	1	25	1003.684922	0.40	
127346	Mad River	39.877445	-83.881893	1016.68	48				Limestone	19			8	1	25	983.2137911	0.32	
131075	Mad River	39.87078	-83.892055	1002.21	61				Limestone	99			10	2	5	876.8299607	2.00	
137376	Mad River	39.870564	-83.880328	975.83	125				Limestone	44			130	5	33	958.2657125	3.94	
139437	Mad River	11/20/1954	39.870253	-83.891741	1002.27	162	30	972.27	Limestone	14						1008.473028		
139438	Mad River	7/27/1955	39.86852	-83.868005	1022.47	53			Limestone & Rock	10						1009.16213		
139481	Mad River	8/5/1955	39.868612	-83.868869	1019.16	53			Limestone	10			8	0.5	20	1009.498445	0.40	
139482	Mad River	6/30/1958	39.876436	-83.88441	1019.50	34	20	999.50	Limestone & Rock	10			8	0.5	20	1007.498445	0.40	
139490	Mad River	6/30/1958	39.876436	-83.88441	1019.50	35	20	999.50	Limestone & Rock	12			12	1	0	961.9070718		
150507	Mad River	4/18/1959	39.853531	-83.887569	961.91	115	115	846.91	Rock	78			12	1	0	898.7996943	2.50	
150543	Mad River	39.853069	-83.886339	976.80	106				Limestone	8			12	1	0	954.8432699		
150548	Mad River	39.849962	-83.899257	962.84	49				Limestone	8			20	1	8	945.4087146		
166412	Mad River	39.864501	-83.890589	999.41	74				Limestone	54			12	1	0	1002.391875		
174168	Mad River	9/13/1956	39.831677	-83.87321	1026.39	79			Limestone	6			12	1	10	1014.097806	0.86	
174189	Mad River	39.862713	-83.871325	1020.10	44				Limestone	6			15	2	0	870.228855		
	Mad River	39.871122	-83.879168	973.23	130				Limestone	103								

TABLE 1.
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ENON SAND GRAVEL II QUARRY
(All Wells are in Clark County, Ohio)

Map/ODNR Log #	Township	Completion Date	Latitude	Longitude	Ground Elevation (Feet, MSL)	Total Depth (Feet)	Depth to Bedrock (Feet)	Bedrock Elevation (Feet, MSL)	Aquifer Type	Static Depth to Water (Feet)	Casing Length (Feet)	Screen Length (Feet)	Test Rate (gpm)	Test Duration (Hours)	Drawdown (Feet)	Water-Level Elevation (Feet, MSL)	Specific Capacity (gpm/ft)
201288	Mad River	1/26/1957	39.840108	-83.867147	1032.75	50			Limestone	20						1012.745128	
204026	Mad River	6/29/1959	39.848138	-83.919841	937.48	65	61	876.48	Sand	25			9	2	25	912.4806273	0.36
204027	Mad River	7/8/1959	39.862614	-83.908162	946.49	62			Limestone	30			7	2	20	916.4880513	0.35
206516	Mad River	9/7/1967	39.862237	-83.871466	1021.22	58			Limestone	18					30	1003.21564	
217726	Mad River	8/29/1963	39.84189	-83.883926	1008.94	170			Limestone	130					5	878.9378101	
236114	Mad River	4/5/1969	39.84189	-83.883926	1008.94	115			Sandstone	10						998.9378101	
237907	Mad River	9/11/1959	39.87026	-83.887464	1006.70	47			Stone							1006.695536	
237947	Mad River	7/20/1960	39.840786	-83.876201	1020.52	50			Limestone							1020.52387	
256035	Mad River	6/17/1961	39.865685	-83.880959	969.82	110			Limestone							969.819217	
257613	Mad River	11/15/1961	39.840293	-83.869615	1023.77	38			Sand	10			12	1	18	1013.77428	0.67
257636	Mad River	6/29/1963	39.866501	-83.8986	985.88	58			Limestone	25			12	4	25	960.8826062	0.48
271714	Mad River	6/8/1963	39.872039	-83.890309	1008.91	70			Limestone	20					10	988.9132664	
271726	Mad River	12/30/1990	39.841917	-83.885323	1012.00	171			Limestone	130					5	881.9951243	
273518	Mad River	1/31/1962	39.863089	-83.889303	986.73	104			Limestone	87			16	2		899.7265226	
273523	Mad River	4/20/1962	39.831885	-83.881836	1027.96	48			Crevice	10			24	2		1017.96246	
309338	Mad River	10/10/1974	39.858604	-83.895684	956.23	75	11	945.23	Limestone	26			15	15	15	930.2346963	1.00
311305	Mad River	3/21/1964	39.874756	-83.887352	1014.24	41	33	981.24	Limestone	16			20	1		998.2363754	
311342	Mad River	1/8/1965	39.828803	-83.880122	1025.61	30	28	997.61	Limestone	20			40	1		1005.614901	
318151	Mad River	9/9/1964	39.870549	-83.879746	968.77	70			Limestone & Rock	27						941.7723171	
326110	Mad River	5/2/1969	39.840293	-83.869615	1023.77	33			Sand	15			10		0.5	1008.77428	20.00
329195	Mad River	11/30/1965	39.868606	-83.869379	1018.69	69			Limestone	20			10		35	998.6920167	0.29
329200	Mad River	1/22/1966	39.864477	-83.881293	971.15	74	19	952.15	Limestone	30			20		10	941.1486385	2.00
335405	Mad River	6/4/1965	39.87728	-83.893959	1013.50	113	41	972.50	Limestone	79			30	1		935.0042675	
337535	Mad River		39.863771	-83.891775	996.05	110			Limestone	57			17			939.0515626	
349219	Mad River	7/18/1966	39.84099	-83.87178	1016.45	89			Limestone	16			20		20	1000.445214	1.00
357076	Mad River	7/27/1967	39.868817	-83.885059	994.33	62	3	991.33	Limestone	26			9	1	5	968.3274658	1.80
357081	Mad River	8/24/1967	39.868817	-83.885059	994.33	61	3	991.33	Limestone	24			8	1	0	970.3274658	
357306	Mad River	11/16/1966	39.873643	-83.91749	954.61	50	17	937.61	Rock	20			8			934.6111704	
360938	Mad River	5/9/1970	39.876612	-83.902335	1007.33	105	48	959.33	Limestone	35			60		30	972.3284291	2.00
360945	Mad River	11/30/1970	39.873653	-83.891428	1009.00	45	41	968.00	Limestone	17			30		10	992.0022165	3.00
373469	Mad River	4/26/1969	39.862238	-83.873671	1017.62	63	7	1010.62	Limestone	10			10	1	20	1007.623341	0.50
376688	Mad River	6/18/1968	39.86947	-83.885789	998.55	45			Limestone	15			30	1		983.5476633	
377821	Mad River	7/1/1968	39.847944	-83.907028	915.98	26	25	890.98	Gravel	6			10			909.9822586	
378880	Mad River	8/27/1968	39.870184	-83.876876	986.29	62			Mud							986.2865624	
378881	Mad River	8/28/1968	39.870185	-83.876874	986.44	115	6	980.44	Shale	45			5	2	110	941.4412834	0.05
405312	Mad River	5/28/1970	39.85904	-83.879675	1008.39	113			Limestone & Shale	70			7			938.3877805	
405316	Mad River	6/15/1970	39.862614	-83.908162	946.49	65			Limestone	22			20			924.4880513	
405343	Mad River	10/12/1970	39.862785	-83.88944	981.90	106	15	966.90	Limestone	45			2			936.9001635	

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412895	Mad River		39.867171	-83.898318	977.28	54			Limestone	17			8	2	15	960.2846052	0.53
421870	Mad River	9/30/1971	39.84929	-83.917436	907.27	89	86	821.27	Gravel	30			30	1		877.266976	
421898	Mad River	1/10/1972	39.869467	-83.889299	1007.08	45	27	980.08	Limestone	20			25	1		987.0847478	
425932	Mad River		39.870754	-83.878885	967.39	82	6	961.39	Limestone	25			10			942.3885945	
425984	Mad River	6/8/1972	39.86869	-83.870691	1015.84	80	11	1004.84	Limestone	9			20			1006.840754	0.25
433701	Mad River	4/13/1971	39.878173	-83.880692	1016.47	118			Limestone	60			10		40	956.4687383	0.25
433709	Mad River	6/30/1971	39.86874	-83.8731	1010.99	82	25	981.66	Limestone	40			10		30	970.9938351	0.33
433712	Mad River	7/19/1971	39.841303	-83.890614	1006.66	82	25	981.66	Limestone	30			10		40	976.6583061	0.25
433719	Mad River	9/13/1971	39.879589	-83.896568	1023.04	95			Limestone	20			12		50	1003.038286	0.24
433722	Mad River	10/18/1971	39.86874	-83.8731	1010.99	82			Limestone	22			10		50	988.9938351	0.20
433746	Mad River	7/28/1972	39.839739	-83.880774	1016.70	118	40	976.70	Limestone	20			20		60	996.6951134	0.33
434217	Mad River	2/22/1972	39.849388	-83.918164	904.89	75	73	831.89	Gravel	30			20			874.8908855	
443486	Mad River	6/1/1915	39.874088	-83.881395	1001.09	75	8	993.09	Limestone	14			15	2	5	987.0943999	3.00
443788	Mad River	3/26/1973	39.868688	-83.886177	998.09	80	13	985.09	Limestone	15			10	2	20	983.0946538	0.50
443790	Mad River	3/20/1973	39.864047	-83.885161	954.77	135	33	921.77	Shells Lime Sand	25			8	2	60	929.7741376	0.13
443792	Mad River	3/26/1973	39.879932	-83.896917	1022.96	60	55	967.96	Limestone	18			10	2	3	1004.961118	3.33
443793	Mad River	3/26/1973	39.854316	-83.880564	994.51	65	29	965.51	Shale	45			10	2	2	949.5145835	5.00
443799	Mad River	6/15/1973	39.865059	-83.890576	1000.71	75	20	980.71	Limestone	55			20	2	2	945.711211	10.00
443800	Mad River	6/15/1973	39.867732	-83.895767	989.65	60	20	969.65	Limestone	11			8	2	40	978.647205	0.20
444973	Mad River	10/9/1972	39.860957	-83.875252	1014.78	55	53	961.78	Limestone	18			20	2	15	996.7777533	1.33
454664	Mad River	8/23/1973	39.874383	-83.885432	1007.89	70	16	991.89	Rock	15			10			1007.892795	
454678	Mad River	11/12/1973	39.83195	-83.885854	1021.16	50	17	1004.16	Rock	18			20			1006.155084	
454679	Mad River	11/20/1973	39.83201	-83.88502	1023.03	77			Rock	18			7			1005.026584	
455222	Mad River		39.869044	-83.917833	932.23	120			Shale				0			932.2325148	
455223	Mad River		39.869044	-83.917833	932.23	100	27	905.23	Shale				2			932.2325148	
455232	Mad River		39.837967	-83.888755	1008.90	60	13	995.90	Limestone	20			8	2	10	988.8988902	0.80
455244	Mad River		39.834959	-83.906816	1006.07	105	109	897.07	Sand & Gravel	60			10	2	0	946.0681071	
456273	Mad River	8/16/1974	39.864366	-83.889265	992.56	88	15	977.56	Limestone	55			7	2	20	937.5573402	0.35
456274	Mad River	8/16/1974	39.864366	-83.889265	992.56	90	15	977.56	Limestone	60			20	2	10	932.5573402	2.00
456276	Mad River	8/16/1974	39.86487	-83.88857	994.04	85			Limestone	60			8	2	20	934.03569	0.40
456278	Mad River	8/16/1974	39.839184	-83.872421	1011.31	40			Sand & Gravel	30			30	2	0	981.3089549	
456279	Mad River	8/16/1974	39.867378	-83.896854	983.09	45	23	960.09	Limestone	15			8	3	15	968.0940686	0.53
456282	Mad River	8/16/1974	39.865478	-83.888607	993.91	70			Limestone	45			10	2	8	948.912236	1.25
456283	Mad River	8/16/1974	39.867489	-83.896343	986.73	55	14	972.73	Limestone	13			9	2	12	973.7285932	0.75
456312	Mad River	8/3/1973	39.872461	-83.917398	951.65	80	53	898.65	Limestone	50			20	12	10	901.6537994	2.00
456602	Mad River	5/16/1973	39.87815	-83.898214	1019.40	70	61	958.40	Limestone	32			10	0.8	20	987.4015106	0.50
456629	Mad River	9/29/1973	39.878185	-83.897531	1021.13	84			Limestone	30			12	0.5	42	991.1269472	0.29
472018	Mad River	1/30/1975	39.871828	-83.917524	959.72	76	45	914.72	Limestone	45			8	1	20	914.7249549	0.40

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472033	Mad River	6/5/1975	39.871828	-83.917524	959.72	68	45	914.72	Limestone	42			16	1	0	917.7249549	
472044	Mad River	8/14/1975	39.864708	-83.88702	983.21	70	10	973.21	Shale	40			24	1	0	943.2109562	
472045	Mad River	8/20/1975	39.860671	-83.881357	996.42	75	11	985.42	Shale	50			18	1	0	946.4237256	
480598	Mad River		39.842059	-83.890109	996.93	75	11	985.93	Limestone	15			20			981.9330341	
486211	Mad River	1/8/1976	39.857156	-83.881825	1002.16	98	65	937.16	Limestone	40			13	1	25	962.1587419	0.52
487204	Mad River	10/6/1975	39.857923	-83.881534	1000.00	105			Limestone	63			8		30	956.9954879	0.27
487223	Mad River	5/11/1976	39.838496	-83.888844	1005.90	95	23	982.90	Limestone	20			10		75	985.9009946	0.13
489423	Mad River	3/19/1976	39.86584	-83.88722	991.42	70			Limestone	40			20	1	0	951.4164045	
489424	Mad River	3/19/1976	39.867189	-83.886214	991.24	102	13	978.24	Shale	40			4	2	60	951.2359406	0.07
489428	Mad River	4/9/1976	39.866257	-83.889338	1001.24	70	10	991.24	Limestone	35			15	1	0	966.2364714	
489429	Mad River	4/10/1976	39.877305	-83.89396	1013.52	56	41	972.52	Limestone	15			25	1.5	5	998.3170725	5.00
489442	Mad River	6/14/1976	39.875608	-83.884262	1011.47	62			Limestone	15			9	1	10	996.4733327	0.90
489447	Mad River	7/7/1976	39.833402	-83.883871	1021.40	60	8	1013.40	Limestone	20			12	2	0	1001.396808	
489448	Mad River	7/9/1976	39.839928	-83.919446	952.72	63	69	883.72	Gravel	15			9	2	0	937.7206807	
502705	Mad River	7/30/1976	39.865059	-83.890576	1000.71	75	20	980.71	Limestone	50			12	1	0	950.711211	
502714	Mad River	9/8/1976	39.86702	-83.88842	1001.66	85			Shale	40			10	1	0	961.6648507	
502724	Mad River	11/10/1976	39.875591	-83.88573	1015.79	72	28	987.79	Limestone	20			15	1.5	0	995.7916196	
502732	Mad River	2/16/1977	39.877406	-83.904161	1009.06	52			Limestone	25			30	1	0	984.03878	
502733	Mad River	2/17/1977	39.876612	-83.902335	1007.33	62	48	959.33	Limestone	25			10	1	20	982.3284291	0.50
502738	Mad River	5/12/1977	39.867877	-83.888173	1003.72	77	15	988.72	Limestone	30			15	1	0	973.7208017	
502740	Mad River	6/3/1977	39.874067	-83.887852	1011.68	65	33	978.68	Limestone	15			15	1	15	996.6830691	1.00
511781	Mad River	7/30/1977	39.842898	-83.919699	949.04	81	82	867.04	Gravel	48			20	1	0	901.0364676	
517218	Mad River	5/12/1978	39.877757	-83.899111	1015.28	81			Sandstone	30			20	2	0	985.276228	
517287	Mad River	5/18/1978	39.87031	-83.88489	1000.68	60			Limestone	20			24	1	10	980.6750271	2.40
523732	Mad River		39.860414	-83.88216	989.98	104			Limestone	70			10	2	20	919.9849176	0.50
526698	Mad River	5/26/1978	39.836061	-83.915902	976.40	110	68	908.40	Rock	20			15	2	20	956.4010348	0.75
528478	Mad River	8/23/1971	39.86514	-83.89205	1001.03	76			Sandstone	31			9	2	20	970.0330709	0.45
530099	Mad River	9/29/1979	39.877279	-83.906036	1003.06	69			Limestone	15			18	1	10	988.0628916	1.80
538826	Mad River	7/19/1978	39.843046	-83.890235	984.73	87	6	978.73	Shale	9			9			975.7320381	
567410	Mad River	4/26/1978	39.852509	-83.888447	985.24	84	52	933.24	Limestone	58			10		5	927.2363709	2.00
569855	Mad River	5/11/1979	39.846622	-83.890791	968.42	82	11	957.42	Limestone	20			8		60	948.4168412	0.13
569865	Mad River	8/23/1979	39.869401	-83.888172	1004.57	82	16	988.57	Limestone	30			15		20	974.5669577	0.75
569866	Mad River	8/28/1979	39.871566	-83.881313	989.76	95	7	982.76	Limestone	30			8		50	959.7578104	0.16
569873	Mad River	10/16/1978	39.833551	-83.910132	1028.74	84	87	941.74	Gravel	64			10		4	964.7359425	2.50
609473	Mad River	3/14/1984	39.85827	-83.90718	960.64	120			Limestone	60			16	1.5	5	900.6350056	3.20
609487	Mad River	6/5/1984	39.85816	-83.90513	957.73	110			Limestone	60			15	2	30	897.7347889	0.50
628858	Mad River	8/9/1985	39.84135	-83.88785	1008.03	94			Shale	15			22	2	30	993.0273449	0.73
628879	Mad River	10/11/1985	39.84138	-83.88839	1007.70	94			Shale	14			12	2	45	993.7031311	0.27

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636431	Mad River	7/8/1986	39.85897	-83.90511	956.52	108			Limestone	50			20	1.5	15	906.5203568	1.33
643952	Mad River	8/13/1984	39.85722	-83.90573	963.06	120			Limestone	86			20	2	5	877.0618998	4.00
648299	Mad River	9/26/1984	39.862865	-83.880895	985.50	95			Shale	40			10	15	15	945.5014808	0.67
648439	Mad River	8/7/1990	39.87744	-83.87943	1014.23	71			Limestone	5			15	2	20	1009.230824	0.75
665747	Mad River	5/3/1988	39.84006	-83.86563	1034.44	82			Limestone	13			10	1	15	1021.438244	0.67
668629	Mad River	5/21/1991	39.85514	-83.88991	938.69	33			Limestone	7			15	0.5	1.5	931.689157	10.00
678124	Mad River	6/4/1989	39.86967	-83.87319	1007.55	90			Limestone	49			10	2	6	958.5458235	1.67
678593	Mad River	4/13/1988	39.85802	-83.90591	961.12	130			Limestone	78			12	1	15	883.1196507	0.80
678595	Mad River	4/13/1988	39.85952	-83.90628	953.63	120			Limestone	78			12	1.5	15	875.6285824	0.80
679283	Mad River	5/28/1988	39.86964	-83.87266	1009.32	95			Limestone	60			20	2	10	949.3231124	2.00
680565	Mad River	8/16/1988	39.86969	-83.87372	1006.08	75			Limestone	60			15	2	75	946.0783606	0.20
683321	Mad River	8/19/1988	39.87564	-83.87959	1007.34	92			Limestone	35			50	2	5	972.3430784	10.00
687277	Mad River	8/20/1988	39.87482	-83.87967	1002.63	90			Limestone	35			50	2	5	967.6328574	10.00
696226	Mad River	5/25/1989	39.87637	-83.90618	1008.53	47			Gravel	35			10	1	5	973.5252229	2.00
697690	Mad River	6/11/1989	39.87441	-83.8797	1001.37	90			Limestone	10			25	2	20	991.3748485	1.25
702207	Mad River	9/11/1989	39.85895	-83.90453	958.77	120			Limestone	25			25	1	95	933.7730047	0.26
702248	Mad River	3/7/1990	39.85986	-83.90339	965.48	125			Limestone	30			20	2	95	935.4794871	0.21
714558	Mad River	7/30/1990	39.86966	-83.87158	1012.22	90			Limestone	60			20	2	3	952.2171621	6.67
714581	Mad River	9/28/1990	39.8696	-83.87048	1016.19	90			Limestone	20			15	2	40	996.1910453	0.38
714595	Mad River	10/30/1990	39.85808	-83.90353	965.25	115			Limestone	85			10	2	1	880.2534448	10.00
719214	Mad River	4/5/1991	39.87646	-83.87952	1010.08	106			Limestone	25			40	1	15	985.0770268	2.67
719241	Mad River	10/3/1990	39.87867	-83.87931	1014.74	46			Limestone	20			20	1	10	994.7433734	2.00
723457	Mad River	11/29/1990	39.87785	-83.87939	1011.95	95			Limestone	12			20	2	30	999.9455451	0.67
730143	Mad River	6/25/1991	39.86897	-83.87606	994.51	141			Limestone & Shale	46			10	1		948.5143285	
734355	Mad River	7/11/1991	39.87826	-83.87935	1014.99	94			Limestone	30			100	1	10	984.9916239	10.00
740302	Mad River	9/23/1991	39.83632	-83.88831	1010.13	90			Limestone	20			10	1	40	990.1307325	0.25
749271	Mad River	7/10/1992	39.87523	-83.87963	1003.88	80			Limestone	35			35	1	5	968.8752507	7.00
761840	Mad River	4/7/1993	39.8619	-83.87039	1018.47	80			Limestone	15			12	2	15	1003.467027	0.80
762308	Mad River	10/22/1992	39.86358	-83.87262	1019.31	105			Limestone	34			15	2	71	985.3140195	0.21
769956	Mad River		39.83398	-83.88511	1012.72	80			Limestone	12			10	2	43	1000.724292	0.23
771225	Mad River	6/24/1993	39.85924	-83.90057	982.38	140			Limestone	90			9	2	1	892.3796115	9.00
772970	Mad River	8/24/1993	39.85703	-83.90182	975.00	129			Limestone	100			15	2	29	875.0029979	0.52
775435	Mad River	2/5/1994	39.86893	-83.87542	999.98	58			Limestone	47			15	1	2	952.975237	7.50
781268	Mad River	10/12/1993	39.83678	-83.89832	976.24	125			Limestone	60			25	2	5	916.2409001	5.00
783261	Mad River	12/15/1993	39.85714	-83.90413	961.09	120			Limestone	78			20	2	42	883.0850801	0.48
791761	Mad River	4/8/1995	39.85989	-83.90392	963.17	70			Limestone	18			8	1	30	945.1686568	0.27
803866	Mad River	6/21/1995	39.858	-83.90174	979.11	140			Limestone	90			11	2	2	889.1059451	5.50
810691	Mad River	3/29/1995	39.85893	-83.904	961.42	113			Limestone	71			12	1	85	890.4218162	0.14

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824108	Mad River	10/26/1995	39.85978	-83.9016	984.41	160			Shale	89			10	2	2	895.4074002	5.00
824123	Mad River	12/1/1995	39.85784	-83.90721	964.75	120			Limestone	70			15	2	5	894.7485514	3.00
832214	Mad River	7/29/1996	39.85569	-83.88011	1000.29	80			Limestone	45			12	2	80	955.2859211	0.15
837340	Mad River	1/1/1998	39.87604	-83.91624	977.93	60			Limestone	20			5	3	10	957.9349014	0.50
837796	Mad River	7/3/1996	39.85813	-83.9046	959.85	112			Limestone	75			20	2	70	884.8534731	0.29
837814	Mad River	8/8/1996	39.8589	-83.90347	965.74	118			Limestone	90			30	2	0	875.7357352	0.30
837825	Mad River	8/30/1996	39.86662	-83.88845	999.73	158			Limestone	85			12	2	40	914.7337929	0.30
848079	Mad River	11/13/1996	39.8689	-83.87478	1005.85	100			Limestone	45			10	2	10	960.8527334	1.00
848163	Mad River	9/22/1997	39.844651	-83.889871	970.27	130			Limestone	65			35	1	20	905.2723331	1.75
865307	Mad River	12/17/1997	39.85233	-83.88913	991.11	95			Limestone	58			8	1	6	933.1134867	1.33
865321	Mad River	5/20/1998	39.87829	-83.87971	1015.21	94			Limestone	30			20	1	3	985.2137268	6.67
872567	Mad River	5/19/1998	39.87903	-83.89545	1020.75	100			Limestone	30			20	2	20	990.7532519	1.00
872606	Mad River	9/21/1998	39.86318	-83.873	1018.74	100			Limestone	40			15	2	5	978.7373764	3.00
872632	Mad River	12/4/1998	39.87868	-83.89517	1019.24	98			Limestone	30			20	1	15	989.2361737	1.33
872636	Mad River	1/13/1999	39.87833	-83.89489	1017.65	100			Limestone	32			18	1	10	985.6454864	1.80
884333	Mad River	11/19/1998	39.85371	-83.88954	960.29	141			Shale	83			15	1	35	877.2886899	0.43
885351	Mad River	8/10/1999	39.85946	-83.90538	952.01	130			Limestone	91			10	1	3	861.0103084	3.33
885358	Mad River	9/25/1999	39.83508	-83.91571	966.32	117			Sand & Gravel	64	10		14	1	2	902.3331606	7.00
893055	Mad River	5/11/1999	39.83463	-83.91293	991.53	62			Gravel & Sand	40			10	1	22	951.5263869	0.45
895519	Mad River	8/15/1999	39.86055	-83.90048	986.83	150			Shale	100			25	2	5	886.8349076	5.00
895573	Mad River	2/8/2000	39.86238	-83.90051	990.70	120			Limestone	40			10	1	20	950.7017497	0.50
901161	Mad River	10/21/1999	39.84003	-83.86745	1032.88	80	33	999.88	Limestone	20			25	2		1012.876139	
902119	Mad River	10/12/1999	39.8489	-83.89861	961.86	200			Limestone	71			40	1	0	890.8584468	
908583	Mad River	12/20/1999	39.86192	-83.87076	1018.85	80			Limestone	12			20	2	10	1006.84577	2.00
908665	Mad River	4/22/2000	39.85408	-83.88358	993.73	100			Limestone	30			15	2	20	963.7332375	0.75
909847	Mad River	6/30/2001	39.87503	-83.88545	1009.26	81			Limestone	22			20	1	20	987.2639859	1.00
910406	Mad River	3/4/2000	39.86376	-83.87055	1020.77	100			Limestone	42			12	1	15	978.7740159	0.80
913338	Mad River	6/25/2000	39.84502	-83.90242	946.62	120			Sand	10			8	1		936.6246536	
915272	Pike	6/23/2000	39.86995	-83.8887	1006.25	80			Limestone	40			20	2	25	966.2492595	0.80
916406	Mad River	6/13/2000	39.85724	-83.89065	937.97	80			Limestone	40			2	2	1	897.9691053	2.00
916419	Mad River	7/7/2000	39.8776	-83.89554	1017.90	82			Limestone	40			50	1	2	977.9001361	25.00
917968	Mad River	2/25/2002	39.86166	-83.90121	985.65	180			Shale	100			12	2	20	885.6461051	0.60
921842	Mad River	10/3/2000	39.86936	-83.87804	973.16	160			Shale	110			12	2	5	863.1638611	2.40
921912	Mad River	3/19/2001	39.87062	-83.87962	968.55	120	2	966.55	Limestone	80			12	2	10	888.5497247	1.20
921921	Mad River	4/3/2001	39.863	-83.90154	984.64	142			Limestone	40			30	2	60	944.6448115	0.50
924822	Mad River	9/20/2001	39.86193	-83.88094	987.43	118			Limestone	50			4	1	25	937.4269861	0.16
927685	Mad River	8/4/2001	39.83478	-83.88805	1007.75	90			Limestone	28			30	3	10	979.7491524	3.00
929237	Mad River	8/14/2001	39.86769	-83.86784	1020.84	100			Limestone	17			15	1		1003.842129	

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933615	Mad River	6/17/2002	39.83995	-83.86564	1034.24	98			Limestone	10			25	2	20	1024.244857	1.25
933626	Mad River	6/22/2001	39.86671	-83.89761	982.94	80			Limestone	25			25	2	10	957.943031	2.50
937644	Mad River	6/27/2002	39.83996	-83.87188	1016.65	100			Limestone	9			15	1		1007.648514	
939792	Mad River	9/16/2002	39.87001	-83.88454	998.46	63			Limestone	30			15	2	20	968.455571	0.75
939807	Springfield	8/18/2003	39.86355	-83.89008	991.89	142			Shale	60			15	2	60	931.8878238	0.25
939832	Mad River	3/7/2002	39.86442	-83.88036	977.53	140			Limestone	105			12	2		872.5251793	
942838	Mad River	6/17/2002	39.83114	-83.87511	1030.62	80			Limestone	15			10	1		1015.618667	
946252	Mad River	5/29/2002	39.85989	-83.8761	1010.72	150			Limestone	45			10	2	25	965.7212498	0.40
955726	Mad River	11/4/2002	39.87538	-83.88033	1001.18	68			Limestone	30			15	2	10	971.1797371	1.50
955776	Mad River	1/8/2003	39.86567	-83.89266	1000.76	90			Limestone	55			10	2	10	945.7564334	1.00
955796	Mad River	2/2/2003	39.83471	-83.90939	1026.31	126			Gravel	65			20	1	5	961.3079169	4.00
955800	Mad River	5/13/2003	39.86695	-83.89582	992.25	62			Limestone	20			15	3	20	972.2509981	0.75
960630	Mad River	7/17/2003	39.85903	-83.90614	955.57	150			Limestone	35			15	1	20	920.5691294	0.75
962845	Mad River	8/25/2003	39.84893	-83.89853	966.13	122			Limestone	73			18	1	7	893.1257108	2.57
963155	Mad River	5/6/2006	39.84833	-83.92394	904.33	64			Limestone	15		6	30	1	11	889.3309931	2.73
969150	Mad River	4/27/2004	39.87661	-83.90381	1006.40	80			Limestone	30			12	2	20	976.4001493	0.60
971975	Mad River	3/18/2004	39.87075	-83.8782	959.93	180			Limestone	50			7	1		909.9327158	
973489	Mad River	4/26/2005	39.85261	-83.88911	989.54	160			Limestone	85			5	1	40	904.5446932	0.13
977115	Mad River	10/25/2004	39.839861	-83.919583	953.84	44	69	884.84		8		5	30	1	5	945.8392776	6.00
981218	Mad River	8/18/2004	39.8625	-83.87306	1019.66	160			Limestone	104			10	1		915.6644501	
981219	Mad River	8/18/2004	39.84	-83.875	1019.28	140			Limestone	17			15	1		1002.276396	
988176	Mad River	2/7/2005	39.868555	-83.879194	973.62	127				84			15	2	25	889.6232721	0.60
990726	Mad River	5/10/2005	39.877389	-83.892472	1018.18	95				25			20	2	20	993.1827043	1.00
990771	Mad River	9/22/2005	39.86053	-83.90826	937.15	100			Limestone	60			25	1	5	877.145146	5.00
1002922	Mad River	5/5/2006	39.87786	-83.89458	1014.63	97			Limestone	28			20	1	15	986.633212	1.33
1002932	Mad River	8/24/2006	39.859722	-83.905722	952.39	110			Limestone	60			20	2	25	892.3917213	0.80
1003792	Mad River	6/12/2006	39.85158	-83.92167	895.99	45			Sand & Gravel	5		3	20	2	10	890.9875064	2.00
1005183	Mad River	10/4/2006	39.848639	-83.915861	924.70	107			Sand & Gravel	38			50	1	6	886.7010577	8.33
1006655	Mad River	12/30/2007	39.863067	-83.903467	974.46	70			Limestone	30			20	2	15	944.4605265	1.33
1007324	Mad River	11/1/2007	39.876139	-83.892333	1017.08	58			Limestone	13			15	1	20	1004.08316	0.75
1009497	Mad River	8/4/2008	39.848617	-83.921333	917.11	61			Sand & Gravel	21		3	40	1	0	896.1112168	
1011292	Mad River	5/27/2010	39.861333	-83.905056	967.60	133			Limestone	80			25	1	20	887.6022238	1.25
1011299	Mad River	11/3/2009	39.8625	-83.90489	972.53	137			Limestone	93			15	1	20	879.5264144	0.75
1012451	Mad River	10/6/2009	39.85302	-83.90446	904.79	77			Limestone	28			25	6	5	876.7923643	5.00
1013576	Bethel	9/27/2010	39.867333	-83.895472	992.77	81			Limestone	35			15	1	5	957.7726674	3.00
1013578	Mad River	9/1/2010	39.862389	-83.90625	965.68	130			Limestone	85			30	1	15	880.6842065	2.00
2006807	Mad River	10/26/2006	39.85	-83.920278	901.09	54			Gravel & Sand	12		2	10	2	35	889.0946868	0.29
2009566	Mad River	4/27/2007	39.866083	-83.884444	987.11	150			Limestone	96			15	2	20	891.1146888	0.75

TABLE 1.
WATER WELL DATABASE
ENON SAND GRAVEL II QUARRY
(All Wells are in Clark County, Ohio)

Map / ODNR Log #	Township	Completion Date	Latitude	Longitude	Ground Elevation (Feet, MSL)	Total Depth (Feet)	Depth to Bedrock (Feet)	Bedrock Elevation (Feet, MSL)	Aquifer Type	Static Depth to Water (Feet)	Casing Length (Feet)	Screen Length (Feet)	Test Rate (gpm)	Test Duration (Hours)	Drawdown (Feet)	Water-Level Elevation (Feet, MSL)	Specific Capacity (gpm/ft)
2010621	Mad River	6/27/2007	39.86315	-83.90246	978.37	60			Limestone	29			15	1	10	949.3713181	1.30
2010647	Mad River	6/28/2007	39.839833	-83.869361	1024.91	100			Limestone	12			35	1	15	1012.913856	2.33
2011357	Mad River	7/26/2007	39.8761	-83.90391	1004.06	100			Limestone	28			100	1.5	10	976.0582596	10.00
2011964	Mad River	8/20/2007	39.83699	-83.88769	1015.04	122			Limestone	15			20	1	10	1000.038686	2.00
2012223	Mad River	8/27/2007	39.8765	-83.885583	1019.73	92			Limestone	37			15	2	40	982.734796	0.38
2012373	Mad River	9/12/2007	39.862806	-83.904	975.90	141			Limestone	90			15	2	20	885.9039375	0.75
2014645	Mad River	11/27/2007	39.877528	-83.903778	1010.34	76			Limestone	20			20	2	20	990.3357389	1.00
2014690	Mad River	1/9/2008	39.863167	-83.904667	971.78	140			Limestone	85			12	1	20	886.7843552	0.60
2015983	Mad River	4/19/2008	39.862861	-83.906028	964.84	128			Limestone	80			30	1	15	884.8415853	2.00
2016262	Mad River	5/2/2008	39.840778	-83.881194	1009.20	102			Limestone	8			15	2	50	1001.196196	0.30
2017103	Mad River	6/23/2008	39.834167	-83.909194	1020.45	170			Limestone	85			12	1	20	935.4504239	0.60
2018180	Mad River	8/20/2008	39.864333	-83.90825	952.14	140			Limestone	75			20	2	10	877.1395599	2.00
2022651	Mad River	5/27/2009	39.841306	-83.879472	1005.94	80			Limestone	1			30	1	20	1004.943404	1.50
2022724	Mad River	6/24/2009	39.874944	-83.881444	1004.60	90			Limestone	22			25	1	10	982.6048932	2.50
2022731	Mad River	6/25/2009	39.871472	-83.879778	989.51	140			Limestone	100			7	2	25	889.5125945	0.28
2023931	Mad River	6/8/2009	39.847267	-83.908917	921.31	160			Shale	20			20	2	45	901.3092882	0.44
2025266	Mad River	11/30/2009	39.835556	-83.919167	960.54	53			Gravel	11		3	25	1	30	949.5427159	0.83
2027772	Mad River	7/9/2010	39.862583	-83.905444	971.56	140			Limestone	85			16	1	20	886.5553729	0.80
2029665	Mad River	10/19/2010	39.847639	-83.921	936.04	52			Gravel	39		5	30	2	3	897.037715	10.00
2032614	Mad River	6/2/2011	39.861083	-83.904528	962.36	122			Limestone	80			15	1	10	882.3596182	1.50
2034569	Mad River	9/22/2011	39.854889	-83.882417	1000.73	86			Limestone	45			15	1	5	955.7275953	3.00
2035966	Mad River	12/29/2011	39.863278	-83.903333	972.06	137			Limestone	80			20	1	15	892.058081	1.33
2036349	Mad River	1/30/2012	39.862972	-83.903611	974.25	138			Limestone	85			15	1	5	889.250398	3.00
2040077	Mad River	10/5/2012	39.862278	-83.907028	957.73	122			Limestone	80			20	1	10	877.7281509	2.00
2041204	Mad River	12/14/2012	39.862361	-83.908278	945.19	109			Limestone	80			20	1	10	865.1919318	2.00
2044329	Mad River	7/22/2013	39.85935	-83.87524	1008.69	140			Limestone	90			20	2	10	918.6937187	2.00
2044521	Mad River	4/30/2013	39.87564	-83.900318	1009.76	150			Limestone	65			20	2	25	944.7565964	0.80
2046915	Mad River	3/26/2014	39.846222	-83.921	934.88	77			Gravel	42		5	30	1	5	892.8835242	6.00
2046916	Mad River	3/27/2014	39.863111	-83.901972	982.95	146			Limestone	100			15	1	10	882.9527695	1.50
2047741	Mad River	5/22/2014	39.859397	-83.868597	1007.67	120			Limestone	28			15	2	35	979.6657795	0.43
2048482	Mad River	8/5/2014	39.863056	-83.905472	968.36	130			Limestone	87			20	1	15	881.3582357	1.33
2050744	Mad River	1/15/2015	39.871472	-83.879778	989.51	140			Limestone	90			15	1	5	899.5125945	3.00
2051481	Mad River	4/1/2015	39.846611	-83.920972	934.51	81			Limestone	40		4	7	2	10	894.5072707	0.70
9912042	Mad River	10/13/1950	39.871993	-83.891155	1006.65	210			Gravel & Sand Shale	23			350		99	983.6452679	3.54

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
30320	-83.84158101	39.76960499	1	1042.55	1025.92	16.63
30320	-83.84158101	39.76960499	3	1042.55	1025.54	17.01
32252	-83.85169401	39.799829	1	1027.06	1024.05	3.01
32252	-83.85169401	39.799829	3	1027.06	1023.71	3.35
32256	-83.828361	39.79886299	1	990.75	979.11	11.64
32256	-83.828361	39.79886299	3	990.75	979.04	11.71
32267	-83.803228	39.83066799	1	1001.79	1011.34	-9.55
32267	-83.803228	39.83066799	3	1001.79	1009.74	-7.95
32298	-83.81179099	39.78711399	1	1011.44	1015.44	-4.00
32298	-83.81179099	39.78711399	3	1011.44	1015.37	-3.92
33529	-83.83101999	39.868667	1	1015.31	1006.53	8.78
33529	-83.83101999	39.868667	3	1015.31	1006.44	8.87
33535	-83.860926	39.85124801	1	980.04	995.39	-15.34
33535	-83.860926	39.85124801	3	980.04	996.11	-16.06
33541	-83.85339199	39.863897	1	1007.73	1006.83	0.90
33541	-83.85339199	39.863897	3	1007.73	1006.73	1.00
43360	-83.83403599	39.84401501	1	1003.72	1020.86	-17.14
43360	-83.83403599	39.84401501	3	1003.72	1020.78	-17.06
43379	-83.93683701	39.88695599	3	853.79	857.92	-4.13
43394	-83.93829301	39.87215499	3	867.72	868.69	-0.97
43394	-83.93829301	39.87215499	3	867.72	868.69	-0.97
43396	-83.89068001	39.91263001	3	886.52	892.22	-5.70
43396	-83.89068001	39.91263001	3	886.52	892.22	-5.70
44459	-83.91371	39.900722	3	884.37	883.62	0.75
44468	-83.92680301	39.88282599	3	875.11	890.08	-14.98
44493	-83.93164299	39.88044402	3	865.49	865.58	-0.09
47285	-83.90053901	39.88689599	1	994.84	1001.81	-6.97
47285	-83.90053901	39.88689599	3	994.84	1001.05	-6.21
48663	-83.85501702	39.854954	1	999.37	1002.50	-3.12
48663	-83.85501702	39.854954	3	999.37	1002.44	-3.07
48678	-83.901781	39.88924799	1	1001.15	994.32	6.83
48678	-83.901781	39.88924799	3	1001.15	993.62	7.53
48683	-83.822336	39.82929701	1	1029.33	1025.92	3.41
48683	-83.822336	39.82929701	3	1029.33	1025.85	3.47
48691	-83.93790101	39.84542599	1	965.24	948.20	17.04
48691	-83.93790101	39.84542599	3	965.24	947.63	17.61
50926	-83.93175501	39.877651	3	868.25	868.71	-0.47
50940	-83.92756198	39.87978099	3	868.60	873.22	-4.63
54666	-83.928163	39.877511	3	884.32	872.37	11.94
55765	-83.88722401	39.919055	1	972.83	949.06	23.77
55765	-83.88722401	39.919055	3	972.83	947.45	25.38
58204	-83.84346601	39.801522	1	1027.77	1023.16	4.61
58204	-83.84346601	39.801522	3	1027.77	1022.78	4.98
58217	-83.87385901	39.85624601	1	969.45	985.26	-15.81
58217	-83.87385901	39.85624601	3	969.45	985.13	-15.68
63763	-83.86158299	39.84381499	1	1026.84	1008.25	18.58
63763	-83.86158299	39.84381499	3	1026.84	1008.16	18.67
63767	-83.857157	39.85129201	1	977.82	998.00	-20.18
63767	-83.857157	39.85129201	3	977.82	999.27	-21.45

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
63778	-83.951249	39.871252	3	854.31	857.62	-3.31
70012	-83.93839899	39.86565599	3	873.53	873.57	-0.04
70015	-83.93896901	39.86218301	3	870.18	874.76	-4.59
70038	-83.91937	39.78527199	1	929.92	933.18	-3.26
70038	-83.91937	39.78527199	3	929.92	932.73	-2.81
76114	-83.96059098	39.86525699	3	851.01	861.96	-10.95
76126	-83.907223	39.91409299	1	934.84	934.19	0.65
76126	-83.907223	39.91409299	3	934.84	933.34	1.50
86183	-83.863469	39.82957301	1	1017.89	1016.92	0.96
86183	-83.863469	39.82957301	3	1017.89	1016.85	1.03
86200	-83.915466	39.91460999	1	918.15	930.00	-11.85
86200	-83.915466	39.91460999	3	918.15	927.00	-8.85
87762	-83.86854899	39.91245501	3	895.18	921.93	-26.75
87762	-83.86854899	39.91245501	3	895.18	921.93	-26.75
87790	-83.877135	39.91291199	3	883.89	893.73	-9.85
87802	-83.83142101	39.78275999	1	1033.89	1039.12	-5.23
87802	-83.83142101	39.78275999	3	1033.89	1038.54	-4.66
87966	-83.90092398	39.867298	1	946.05	955.36	-9.30
87966	-83.90092398	39.867298	3	946.05	955.20	-9.15
88082	-83.81668299	39.82556699	1	1024.19	1023.50	0.69
88082	-83.81668299	39.82556699	3	1024.19	1023.43	0.76
89404	-83.83031101	39.79190198	1	963.06	990.81	-27.76
89404	-83.83031101	39.79190198	3	963.06	990.48	-27.42
89419	-83.79097499	39.783873	1	1048.02	1027.03	20.99
89419	-83.79097499	39.783873	3	1048.02	1026.62	21.40
89426	-83.89980899	39.79200299	1	989.88	1002.72	-12.84
89426	-83.89980899	39.79200299	3	989.88	1002.16	-12.27
89429	-83.913732	39.78218899	1	906.82	921.40	-14.58
89429	-83.913732	39.78218899	3	906.82	921.14	-14.32
93143	-83.83121999	39.886939	1	1000.99	997.40	3.59
93143	-83.83121999	39.886939	3	1000.99	997.24	3.74
94647	-83.89616	39.89653699	1	985.16	980.99	4.17
94647	-83.89616	39.89653699	3	985.16	980.12	5.04
94728	-83.865012	39.838554	1	1022.64	1012.35	10.29
94728	-83.865012	39.838554	3	1022.64	1012.26	10.38
98253	-83.86976999	39.89121401	1	1003.98	1007.11	-3.13
98253	-83.86976999	39.89121401	3	1003.98	1006.55	-2.57
100173	-83.884329	39.89778099	1	1010.96	993.50	17.46
100173	-83.884329	39.89778099	3	1010.96	992.78	18.18
100181	-83.85979601	39.84865	1	1007.19	1001.80	5.39
100181	-83.85979601	39.84865	3	1007.19	1001.73	5.46
108755	-83.79270099	39.77896301	1	1034.19	1029.97	4.22
108755	-83.79270099	39.77896301	3	1034.19	1028.98	5.21
108761	-83.81753299	39.78263802	1	1028.90	1027.84	1.06
108761	-83.81753299	39.78263802	3	1028.90	1027.77	1.12
108772	-83.80171999	39.786596	1	1012.53	1017.56	-5.03
108772	-83.80171999	39.786596	3	1012.53	1017.49	-4.96
108786	-83.822473	39.792891	1	985.10	995.21	-10.11
108786	-83.822473	39.792891	3	985.10	995.15	-10.05

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
108791	-83.86883701	39.77684699	1	950.62	947.98	2.64
108791	-83.86883701	39.77684699	3	950.62	947.62	3.00
108798	-83.902953	39.79876701	1	1000.17	1015.44	-15.28
108798	-83.902953	39.79876701	3	1000.17	1014.91	-14.74
108799	-83.8482	39.79609999	1	1015.94	1013.32	2.62
108799	-83.8482	39.79609999	3	1015.94	1012.87	3.07
118154	-83.93617	39.87484001	3	896.46	867.62	28.83
125350	-83.88012199	39.82880299	1	1007.61	999.61	8.00
125350	-83.88012199	39.82880299	3	1007.61	999.54	8.07
127303	-83.81768501	39.833223	1	1022.56	1024.49	-1.93
127303	-83.81768501	39.833223	3	1022.56	1024.42	-1.86
127313	-83.867417	39.90584499	1	984.14	968.73	15.41
127313	-83.867417	39.90584499	3	984.14	967.84	16.30
128824	-83.915413	39.824497	1	969.59	981.56	-11.97
128824	-83.915413	39.824497	3	969.59	981.48	-11.89
132547	-83.87836499	39.80255	1	937.37	947.07	-9.70
132547	-83.87836499	39.80255	3	937.37	946.65	-9.28
139422	-83.96981102	39.859286	3	843.80	867.73	-23.93
139440	-83.85241701	39.87789399	1	995.72	996.96	-1.24
139440	-83.85241701	39.87789399	3	995.72	996.71	-0.99
142907	-83.866733	39.78744999	1	979.80	955.39	24.41
142907	-83.866733	39.78744999	3	979.80	953.42	26.38
142940	-83.874639	39.807606	1	964.55	981.00	-16.44
142940	-83.874639	39.807606	3	964.55	981.07	-16.52
142947	-83.86706899	39.77294101	1	973.59	974.92	-1.33
142947	-83.86706899	39.77294101	3	973.59	974.79	-1.20
144468	-83.92816299	39.79248501	1	960.05	980.51	-20.46
144468	-83.92816299	39.79248501	3	960.05	980.37	-20.33
144487	-83.93046498	39.77872899	1	924.43	944.99	-20.55
144487	-83.93046498	39.77872899	3	924.43	944.40	-19.97
147089	-83.867822	39.909023	1	967.79	950.75	17.04
147089	-83.867822	39.909023	3	967.79	949.56	18.23
149706	-83.94699098	39.867445	3	853.47	866.18	-12.71
149708	-83.94438499	39.870132	3	868.62	865.81	2.81
151687	-83.86843201	39.79416801	1	992.34	1004.57	-12.22
151687	-83.86843201	39.79416801	3	992.34	1003.03	-10.69
151696	-83.86541701	39.79795099	1	1014.58	1018.27	-3.69
151696	-83.86541701	39.79795099	3	1014.58	1017.73	-3.15
152187	-83.83629699	39.897026	1	970.26	973.24	-2.98
152187	-83.83629699	39.897026	3	970.26	973.16	-2.91
155458	-83.954073	39.86686599	3	851.35	861.72	-10.37
167571	-83.89563701	39.806288	1	996.50	1003.87	-7.38
167571	-83.89563701	39.806288	3	996.50	1003.23	-6.74
171455	-83.87734998	39.817199	1	981.98	993.43	-11.45
171455	-83.87734998	39.817199	3	981.98	993.36	-11.38
171464	-83.818018	39.778841	1	1023.88	1033.49	-9.62
171464	-83.818018	39.778841	3	1023.88	1033.37	-9.49
171484	-83.87096901	39.826212	1	996.29	1011.98	-15.69
171484	-83.87096901	39.826212	3	996.29	1011.88	-15.59

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
171493	-83.82646898	39.78874199	1	1004.07	1015.92	-11.85
171493	-83.82646898	39.78874199	3	1004.07	1015.36	-11.29
178508	-83.872524	39.90483801	1	977.25	972.57	4.68
178508	-83.872524	39.90483801	3	977.25	971.67	5.58
179650	-83.957214	39.86851501	3	839.90	856.24	-16.34
179688	-83.932706	39.90843399	1	911.41	908.00	3.41
179688	-83.932706	39.90843399	3	911.41	902.37	9.04
186965	-83.936162	39.868786	3	865.02	873.04	-8.02
198277	-83.95136399	39.84684	1	972.60	954.82	17.78
198277	-83.95136399	39.84684	3	972.60	954.28	18.32
201652	-83.86999099	39.78106601	3	902.40	892.43	9.97
204003	-83.907662	39.79281501	1	994.08	993.02	1.06
204003	-83.907662	39.79281501	3	994.08	992.53	1.55
204022	-83.90344701	39.81166701	1	1004.21	1006.86	-2.66
204022	-83.90344701	39.81166701	3	1004.21	1006.59	-2.38
204028	-83.86577699	39.818611	1	998.02	1011.75	-13.72
204028	-83.86577699	39.818611	3	998.02	1011.66	-13.64
204033	-83.82751399	39.77092899	1	1020.20	1025.03	-4.83
204033	-83.82751399	39.77092899	3	1020.20	1024.25	-4.05
204034	-83.93675602	39.79598201	1	1012.62	1015.29	-2.67
204034	-83.93675602	39.79598201	3	1012.62	1014.63	-2.00
204040	-83.83497601	39.804992	1	1019.78	1024.32	-4.54
204040	-83.83497601	39.804992	3	1019.78	1023.67	-3.88
206517	-83.87357801	39.92317201	1	898.24	908.00	-9.76
206517	-83.87357801	39.92317201	3	898.24	899.08	-0.84
206540	-83.870873	39.83161101	1	1007.98	1012.27	-4.29
206540	-83.870873	39.83161101	3	1007.98	1012.18	-4.20
214434	-83.93792001	39.878523	3	862.06	860.79	1.28
218324	-83.88921798	39.90998699	3	872.88	876.86	-3.98
236114	-83.88392598	39.84188999	1	998.94	984.50	14.44
236114	-83.88392598	39.84188999	3	998.94	984.39	14.55
246304	-83.93420802	39.890665	3	860.11	861.19	-1.09
246306	-83.93775701	39.850283	1	929.01	915.89	13.13
246306	-83.93775701	39.850283	3	929.01	910.12	18.89
252002	-83.85823299	39.76516301	1	972.88	996.28	-23.40
252002	-83.85823299	39.76516301	3	972.88	996.11	-23.23
252034	-83.86892101	39.806636	1	987.36	1003.75	-16.39
252034	-83.86892101	39.806636	3	987.36	1003.62	-16.26
257603	-83.86625999	39.802595	1	1001.40	1016.02	-14.62
257603	-83.86625999	39.802595	3	1001.40	1015.54	-14.14
257604	-83.93602599	39.78399101	1	941.62	967.18	-25.56
257604	-83.93602599	39.78399101	3	941.62	966.43	-24.81
257605	-83.84235301	39.81431	1	1042.28	1028.70	13.58
257605	-83.84235301	39.81431	3	1042.28	1028.63	13.65
257611	-83.894814	39.78348301	1	966.83	961.36	5.47
257611	-83.894814	39.78348301	3	966.83	960.83	6.00
257641	-83.93506399	39.79040399	1	1006.85	990.26	16.58
257641	-83.93506399	39.79040399	3	1006.85	990.12	16.73
261616	-83.85197799	39.81558801	1	1020.20	1023.59	-3.39

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
261616	-83.85197799	39.81558801	3	1020.20	1023.53	-3.32
271714	-83.890309	39.87203901	1	988.91	987.69	1.23
271714	-83.890309	39.87203901	3	988.91	986.94	1.97
271737	-83.88637899	39.90244	1	979.64	966.00	13.64
271737	-83.88637899	39.90244	3	979.64	964.78	14.87
273501	-83.832687	39.76960999	1	1037.80	1023.62	14.18
273501	-83.832687	39.76960999	3	1037.80	1022.79	15.01
273964	-83.85189901	39.859474	1	1000.94	1005.64	-4.70
273964	-83.85189901	39.859474	3	1000.94	1005.56	-4.62
276173	-83.92493601	39.79583601	1	946.08	974.35	-28.27
276173	-83.92493601	39.79583601	3	946.08	974.93	-28.85
293907	-83.861362	39.90756901	1	968.42	955.24	13.18
293907	-83.861362	39.90756901	3	968.42	954.22	14.20
300306	-83.935235	39.89848901	3	863.02	863.37	-0.35
300551	-83.920888	39.81659999	3	934.15	995.48	-61.33
304456	-83.808292	39.82877899	1	1017.96	1017.60	0.36
304456	-83.808292	39.82877899	3	1017.96	1017.50	0.45
307102	-83.91053499	39.81301401	1	988.28	1004.16	-15.87
307102	-83.91053499	39.81301401	3	988.28	1004.06	-15.77
307111	-83.870871	39.821034	1	995.05	1008.56	-13.52
307111	-83.870871	39.821034	3	995.05	1008.34	-13.29
307121	-83.89978799	39.800308	1	1007.34	1014.73	-7.39
307121	-83.89978799	39.800308	3	1007.34	1014.17	-6.83
307129	-83.90654099	39.79663902	1	1004.49	1008.71	-4.22
307129	-83.90654099	39.79663902	3	1004.49	1008.13	-3.64
307133	-83.90505801	39.803735	1	1014.99	1015.31	-0.32
307133	-83.90505801	39.803735	3	1014.99	1015.06	-0.07
307134	-83.81520001	39.772232	1	1034.56	1030.00	4.56
307134	-83.81520001	39.772232	3	1034.56	1027.00	7.56
307138	-83.931367	39.783177	1	924.88	960.75	-35.86
307138	-83.931367	39.783177	3	924.88	960.58	-35.70
307139	-83.884658	39.78812901	1	957.02	932.05	24.97
309338	-83.89568398	39.85860399	1	930.23	926.05	4.19
309338	-83.89568398	39.85860399	3	930.23	925.83	4.40
311334	-83.91171999	39.88783999	1	958.18	967.27	-9.09
311334	-83.91171999	39.88783999	3	958.18	967.06	-8.88
313846	-83.909753	39.88586901	1	984.05	977.40	6.64
313846	-83.909753	39.88586901	3	984.05	977.26	6.79
318345	-83.92592899	39.820728	1	982.26	986.65	-4.39
318345	-83.92592899	39.820728	3	982.26	986.58	-4.31
324723	-83.94002101	39.857476	3	864.92	875.72	-10.80
326104	-83.89543201	39.81075699	1	986.34	998.15	-11.82
326104	-83.89543201	39.81075699	3	986.34	997.50	-11.17
329180	-83.85637199	39.91199701	1	942.12	915.52	26.60
329180	-83.85637199	39.91199701	3	942.12	915.77	26.35
329182	-83.847102	39.88070601	1	975.07	981.41	-6.35
329182	-83.847102	39.88070601	3	975.07	982.00	-6.94
329198	-83.850881	39.907196	3	873.84	928.55	-54.71
329198	-83.850881	39.907196	3	873.84	928.55	-54.71

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
329200	-83.881293	39.864477	1	941.15	948.84	-7.70
329200	-83.881293	39.864477	3	941.15	949.28	-8.13
335424	-83.917221	39.88911	1	936.95	942.38	-5.42
335424	-83.917221	39.88911	3	936.95	942.03	-5.08
341073	-83.88322701	39.91547499	3	874.06	884.57	-10.51
353047	-83.93165598	39.76863501	1	966.34	950.81	15.53
353047	-83.93165598	39.76863501	3	966.34	949.64	16.71
357075	-83.86948999	39.90238999	1	977.11	984.05	-6.94
357075	-83.86948999	39.90238999	3	977.11	983.31	-6.19
357076	-83.88509901	39.86881701	1	968.33	964.87	3.46
357076	-83.88509901	39.86881701	3	968.33	964.62	3.70
357093	-83.906036	39.89119901	1	965.48	974.55	-9.07
357093	-83.906036	39.89119901	3	965.48	974.34	-8.86
359528	-83.859165	39.898602	1	980.14	982.22	-2.08
359528	-83.859165	39.898602	3	980.14	981.47	-1.32
373470	-83.832579	39.85949	1	1023.83	1008.49	15.34
373470	-83.832579	39.85949	3	1023.83	1008.48	15.35
374956	-83.81541402	39.83010301	1	1028.02	1023.20	4.82
374956	-83.81541402	39.83010301	3	1028.02	1023.13	4.89
374963	-83.81685101	39.83715899	1	1020.71	1024.49	-3.78
374963	-83.81685101	39.83715899	3	1020.71	1024.42	-3.71
374996	-83.918227	39.89981101	3	863.62	872.35	-8.73
375000	-83.826472	39.884091	1	1009.23	1005.45	3.78
375000	-83.826472	39.884091	3	1009.23	1005.03	4.20
376653	-83.87286	39.90719001	1	962.46	959.08	3.38
376653	-83.87286	39.90719001	3	962.46	957.97	4.49
378860	-83.929394	39.88526901	3	881.31	871.83	9.47
378881	-83.87687401	39.870185	1	941.44	970.26	-28.82
378881	-83.87687401	39.870185	3	941.44	972.16	-30.72
381115	-83.907224	39.88752999	1	970.91	980.40	-9.49
381115	-83.907224	39.88752999	3	970.91	980.25	-9.34
391173	-83.95035302	39.86536101	3	861.09	865.25	-4.16
392304	-83.87552101	39.886622	1	1017.18	1006.34	10.84
392304	-83.87552101	39.886622	3	1017.18	1006.19	10.99
392313	-83.83784098	39.87173001	1	982.79	995.78	-12.99
392313	-83.83784098	39.87173001	3	982.79	996.43	-13.63
395963	-83.83431799	39.80016601	1	980.14	994.83	-14.69
395963	-83.83431799	39.80016601	3	980.14	992.98	-12.83
395967	-83.87937698	39.76824	1	964.92	969.32	-4.39
395967	-83.87937698	39.76824	3	964.92	968.57	-3.64
395970	-83.84549699	39.804678	1	1023.97	1028.71	-4.74
395970	-83.84549699	39.804678	3	1023.97	1028.37	-4.40
395977	-83.82568401	39.79996599	1	1005.78	992.06	13.72
395977	-83.82568401	39.79996599	3	1005.78	991.92	13.86
395995	-83.80558299	39.77879201	1	1020.20	1028.84	-8.63
395995	-83.80558299	39.77879201	3	1020.20	1028.73	-8.53
405319	-83.83995	39.849499	1	1028.25	1015.03	13.21
405319	-83.83995	39.849499	3	1028.25	1014.95	13.29
405343	-83.88943999	39.86278499	1	936.90	941.71	-4.80

TABLE 2.
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ENON SAND GRAVEL II QUARRY

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
405343	-83.88943999	39.86278499	3	936.90	941.52	-4.62
408554	-83.86642901	39.832906	1	1021.54	1014.74	6.80
408554	-83.86642901	39.832906	3	1021.54	1014.67	6.88
408559	-83.90098802	39.90933399	3	859.15	883.11	-23.96
408565	-83.954196	39.901904	3	853.85	876.40	-22.55
408581	-83.92265999	39.90219799	3	867.17	867.32	-0.15
408585	-83.91636299	39.895641	3	870.64	912.00	-41.36
408585	-83.91636299	39.895641	3	870.64	912.00	-41.36
408591	-83.87716698	39.89754901	1	1010.95	999.03	11.92
408591	-83.87716698	39.89754901	3	1010.95	998.39	12.56
412858	-83.878304	39.88911501	1	1026.59	1009.97	16.63
412858	-83.878304	39.88911501	3	1026.59	1009.53	17.06
421898	-83.88929899	39.86946699	1	987.08	973.11	13.97
421898	-83.88929899	39.86946699	3	987.08	972.91	14.18
423431	-83.93565099	39.882705	3	859.60	852.94	6.66
433389	-83.913877	39.76837398	3	844.01	871.36	-27.35
433709	-83.87309998	39.86873999	1	970.99	985.72	-14.73
433709	-83.87309998	39.86873999	3	970.99	985.52	-14.53
433715	-83.84377599	39.82740799	1	1019.31	1026.05	-6.73
433715	-83.84377599	39.82740799	3	1019.31	1025.98	-6.67
433728	-83.84302701	39.84301201	1	1032.65	1019.45	13.20
433728	-83.84302701	39.84301201	3	1032.65	1019.37	13.28
433740	-83.92301	39.89714	3	876.84	865.94	10.90
433746	-83.88077401	39.83973899	1	996.70	993.44	3.25
433746	-83.88077401	39.83973899	3	996.70	993.35	3.34
434218	-83.899197	39.88324701	1	1002.37	1006.43	-4.06
434218	-83.899197	39.88324701	3	1002.37	1005.72	-3.35
438295	-83.84937601	39.90261399	1	910.68	927.51	-16.83
438295	-83.84937601	39.90261399	3	910.68	933.46	-22.79
443790	-83.88516101	39.864047	1	929.77	941.86	-12.09
443790	-83.88516101	39.864047	3	929.77	941.83	-12.06
443792	-83.89691699	39.879952	1	1004.96	1007.79	-2.83
443792	-83.89691699	39.879952	3	1004.96	1006.93	-1.97
444973	-83.875252	39.860957	1	996.78	984.73	12.05
444973	-83.875252	39.860957	3	996.78	984.49	12.28
447370	-83.85151501	39.84689799	1	1020.03	1011.66	8.37
447370	-83.85151501	39.84689799	3	1020.03	1011.48	8.55
447381	-83.86036299	39.86106699	1	993.30	1002.82	-9.52
447381	-83.86036299	39.86106699	3	993.30	1002.73	-9.43
454679	-83.88501999	39.83201	1	1005.03	992.27	12.75
454679	-83.88501999	39.83201	3	1005.03	992.20	12.83
455223	-83.91783299	39.86904399	1	932.23	908.00	24.23
455223	-83.91783299	39.86904399	3	932.23	896.78	35.45
455232	-83.88875499	39.837967	1	988.90	981.28	7.62
455232	-83.88875499	39.837967	3	988.90	981.19	7.71
455234	-83.821822	39.807324	1	1023.33	1014.11	9.23
455234	-83.821822	39.807324	3	1023.33	1014.04	9.29
455244	-83.906816	39.834959	1	946.07	956.93	-10.86
455244	-83.906816	39.834959	3	946.07	956.79	-10.72

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WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
456312	-83.91739798	39.872461	3	901.65	927.32	-25.66
456312	-83.91739798	39.872461	3	901.65	927.32	-25.66
462185	-83.92492799	39.75889001	3	897.65	873.29	24.36
462185	-83.92492799	39.75889001	3	897.65	873.29	24.36
462197	-83.904913	39.78309501	1	947.81	955.49	-7.68
462197	-83.904913	39.78309501	3	947.81	955.32	-7.51
472045	-83.881357	39.860671	1	946.42	955.61	-9.19
472045	-83.881357	39.860671	3	946.42	955.27	-8.85
472743	-83.921445	39.88213899	1	933.63	933.90	-0.27
472743	-83.921445	39.88213899	3	933.63	933.03	0.60
473325	-83.912406	39.77097901	3	873.37	870.65	2.72
474792	-83.79570001	39.79491999	1	994.58	1002.68	-8.10
474792	-83.79570001	39.79491999	3	994.58	1002.87	-8.28
478802	-83.951921	39.816434	1	997.48	991.16	6.32
478802	-83.951921	39.816434	3	997.48	991.06	6.43
486394	-83.94860701	39.799239	1	1021.61	1015.00	6.61
486394	-83.94860701	39.799239	3	1021.61	1012.00	9.61
487224	-83.86458301	39.826135	1	1011.04	1016.29	-5.25
487224	-83.86458301	39.826135	3	1011.04	1016.22	-5.18
487247	-83.818342	39.86974899	1	1012.99	1015.87	-2.89
487247	-83.818342	39.86974899	3	1012.99	1015.75	-2.76
487814	-83.91593098	39.884732	1	950.40	964.95	-14.55
487814	-83.91593098	39.884732	3	950.40	963.86	-13.46
487827	-83.92107401	39.78282701	1	944.24	927.94	16.30
487827	-83.92107401	39.78282701	3	944.24	927.64	16.61
489428	-83.889338	39.866257	1	966.24	957.18	9.05
489428	-83.889338	39.866257	3	966.24	957.00	9.24
489442	-83.884262	39.875608	1	996.47	999.42	-2.94
489442	-83.884262	39.875608	3	996.47	998.55	-2.07
489580	-83.818568	39.77147101	1	1019.79	1030.00	-10.21
489580	-83.818568	39.77147101	3	1019.79	1027.00	-7.21
491702	-83.94546002	39.85671501	3	866.72	875.08	-8.36
505339	-83.92968801	39.79660201	1	965.87	991.67	-25.79
505339	-83.92968801	39.79660201	3	965.87	991.61	-25.74
509813	-83.945451	39.84464201	1	974.38	965.16	9.22
509813	-83.945451	39.84464201	3	974.38	964.73	9.65
510558	-83.94973798	39.806001	1	1004.23	1008.54	-4.31
510558	-83.94973798	39.806001	3	1004.23	1008.47	-4.24
511781	-83.91969899	39.842898	3	901.04	897.94	3.09
511781	-83.91969899	39.842898	3	901.04	897.94	3.09
517271	-83.85462502	39.82843401	1	1017.25	1021.54	-4.29
517271	-83.85462502	39.82843401	3	1017.25	1021.47	-4.22
517272	-83.81855901	39.80984299	1	1020.70	1016.51	4.19
517272	-83.81855901	39.80984299	3	1020.70	1016.45	4.25
518476	-83.83352798	39.815991	1	1035.37	1028.55	6.82
518476	-83.83352798	39.815991	3	1035.37	1028.49	6.88
529597	-83.91141999	39.89073	1	947.72	957.92	-10.21
529597	-83.91141999	39.89073	3	947.72	957.69	-9.97
530064	-83.92169701	39.87774601	3	899.39	920.11	-20.72

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
530064	-83.92169701	39.87774601	3	899.39	920.11	-20.72
530099	-83.90603601	39.87727899	1	988.06	979.46	8.60
530099	-83.90603601	39.87727899	3	988.06	979.31	8.76
536070	-83.80519099	39.82520101	1	1022.49	1014.56	7.93
536070	-83.80519099	39.82520101	3	1022.49	1014.44	8.05
538826	-83.89023499	39.843046	1	975.73	969.09	6.64
538826	-83.89023499	39.843046	3	975.73	968.97	6.77
553004	-83.86268498	39.795059	1	1028.99	1018.49	10.50
553004	-83.86268498	39.795059	3	1028.99	1017.95	11.04
553017	-83.85309399	39.79323099	1	982.00	1007.55	-25.55
553017	-83.85309399	39.79323099	3	982.00	1006.78	-24.77
569852	-83.83384799	39.830756	1	1023.75	1026.86	-3.11
569852	-83.83384799	39.830756	3	1023.75	1026.79	-3.05
569855	-83.890791	39.846622	1	948.42	959.12	-10.70
569855	-83.890791	39.846622	3	948.42	959.07	-10.65
569866	-83.88131301	39.871566	1	959.76	975.28	-15.52
569866	-83.88131301	39.871566	3	959.76	975.18	-15.42
573615	-83.83853102	39.77385801	1	1048.48	1035.39	13.10
573615	-83.83853102	39.77385801	3	1048.48	1035.10	13.39
593517	-83.90233199	39.9119	3	863.37	913.25	-49.89
593517	-83.90233199	39.9119	3	863.37	913.25	-49.89
593519	-83.8228	39.87213999	1	1025.45	1010.86	14.59
593519	-83.8228	39.87213999	3	1025.45	1010.74	14.71
603559	-83.86549801	39.81202001	1	1001.39	1008.75	-7.36
603559	-83.86549801	39.81202001	3	1001.39	1008.68	-7.30
606567	-83.80847399	39.792629	1	992.02	998.42	-6.40
606567	-83.80847399	39.792629	3	992.02	998.55	-6.53
609473	-83.90718001	39.85827	3	900.64	910.88	-10.25
609473	-83.90718001	39.85827	3	900.64	910.88	-10.25
609477	-83.95426099	39.82413199	1	964.50	981.91	-17.41
609477	-83.95426099	39.82413199	3	964.50	981.80	-17.30
613870	-83.9206	39.886	1	939.62	936.84	2.78
613870	-83.9206	39.886	3	939.62	936.08	3.54
613922	-83.84229501	39.76765799	1	1031.81	1019.19	12.62
613922	-83.84229501	39.76765799	3	1031.81	1018.64	13.17
625401	-83.87462599	39.82094901	1	1004.37	1002.61	1.76
625401	-83.87462599	39.82094901	3	1004.37	1002.54	1.83
626682	-83.87252001	39.92051999	3	879.04	882.03	-2.99
627333	-83.89497999	39.89341	1	1003.80	995.94	7.86
627333	-83.89497999	39.89341	3	1003.80	995.26	8.55
628879	-83.88839	39.84137999	1	993.70	976.41	17.30
628879	-83.88839	39.84137999	3	993.70	976.29	17.41
632915	-83.856694	39.78185099	1	970.62	977.89	-7.26
632915	-83.856694	39.78185099	3	970.62	977.12	-6.50
633523	-83.930834	39.82728001	1	961.35	969.34	-7.99
633523	-83.930834	39.82728001	3	961.35	969.35	-8.00
633537	-83.95882699	39.82773301	1	963.17	975.64	-12.47
633537	-83.95882699	39.82773301	3	963.17	974.30	-11.13
633542	-83.95667799	39.82576001	1	971.45	978.38	-6.92

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
633542	-83.95667799	39.82576001	3	971.45	978.09	-6.64
636952	-83.936787	39.82155399	1	988.73	988.60	0.14
636952	-83.936787	39.82155399	3	988.73	988.53	0.20
643952	-83.90573	39.85722	3	877.06	910.22	-33.16
643952	-83.90573	39.85722	3	877.06	910.22	-33.16
646326	-83.84314	39.87626999	1	977.04	986.67	-9.62
646326	-83.84314	39.87626999	3	977.04	988.33	-11.29
651998	-83.920279	39.762802	3	876.44	872.80	3.64
651998	-83.920279	39.762802	3	876.44	872.80	3.64
653664	-83.89254301	39.76091499	3	876.51	926.42	-49.91
653664	-83.89254301	39.76091499	3	876.51	926.42	-49.91
655607	-83.83280401	39.78910599	1	1007.49	1010.91	-3.43
655607	-83.83280401	39.78910599	3	1007.49	1010.13	-2.65
655608	-83.87279699	39.78359801	3	892.52	861.06	31.46
657978	-83.94214601	39.82258401	1	980.85	988.33	-7.48
657978	-83.94214601	39.82258401	3	980.85	988.27	-7.42
657985	-83.93371201	39.80643201	1	961.28	1002.71	-41.42
657985	-83.93371201	39.80643201	3	961.28	1002.59	-41.31
658621	-83.905239	39.79407099	1	1004.78	1004.16	0.62
658621	-83.905239	39.79407099	3	1004.78	1003.57	1.21
658650	-83.933241	39.811569	1	973.58	1000.65	-27.07
658650	-83.933241	39.811569	3	973.58	1000.53	-26.95
660018	-83.917291	39.76673801	3	885.52	871.93	13.59
665713	-83.82475201	39.79651498	1	995.56	984.55	11.00
665713	-83.82475201	39.79651498	3	995.56	984.52	11.04
665732	-83.82567	39.87719	1	1001.23	1006.65	-5.42
665732	-83.82567	39.87719	3	1001.23	1006.50	-5.26
665733	-83.84224998	39.88993999	1	975.78	973.69	2.09
665733	-83.84224998	39.88993999	3	975.78	973.56	2.22
666726	-83.93483801	39.901009	3	860.50	864.46	-3.97
668629	-83.88991002	39.85514	1	931.69	939.24	-7.55
668629	-83.88991002	39.85514	3	931.69	939.00	-7.31
677060	-83.85822001	39.92792001	3	897.85	900.17	-2.33
687277	-83.87966999	39.87481999	1	967.63	987.30	-19.67
687277	-83.87966999	39.87481999	3	967.63	986.86	-19.22
693125	-83.95551602	39.83354901	1	974.52	977.34	-2.82
693125	-83.95551602	39.83354901	3	974.52	977.09	-2.57
701826	-83.87981001	39.88590999	1	1005.42	1008.68	-3.26
701826	-83.87981001	39.88590999	3	1005.42	1008.56	-3.13
706136	-83.92860399	39.76410801	1	938.44	944.92	-6.48
706136	-83.92860399	39.76410801	3	938.44	943.88	-5.44
711885	-83.8384	39.91416999	1	945.45	930.91	14.54
711885	-83.8384	39.91416999	3	945.45	930.42	15.03
714560	-83.82904999	39.88153999	1	1003.24	1002.48	0.76
714560	-83.82904999	39.88153999	3	1003.24	1002.37	0.87
717410	-83.94358201	39.828382	1	988.96	982.30	6.66
717410	-83.94358201	39.828382	3	988.96	982.24	6.71
722461	-83.94111502	39.83241	1	966.86	976.97	-10.11
722461	-83.94111502	39.83241	3	966.86	976.90	-10.04

TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
723469	-83.84908701	39.77828299	1	1024.40	1032.78	-8.39
723469	-83.84908701	39.77828299	3	1024.40	1032.20	-7.80
723896	-83.81401299	39.784425	1	1031.40	1022.44	8.96
723896	-83.81401299	39.784425	3	1031.40	1022.37	9.03
724524	-83.83753901	39.78871	1	1014.51	1004.88	9.64
724524	-83.83753901	39.78871	3	1014.51	1003.29	11.23
734355	-83.87935001	39.87825999	1	984.99	996.85	-11.86
734355	-83.87935001	39.87825999	3	984.99	996.58	-11.59
736365	-83.85488999	39.86128002	1	1000.09	1005.41	-5.32
736365	-83.85488999	39.86128002	3	1000.09	1005.33	-5.24
739778	-83.941779	39.78451099	1	948.55	949.61	-1.06
739778	-83.941779	39.78451099	3	948.55	947.89	0.67
739781	-83.863057	39.77796501	1	967.44	967.44	0.00
739781	-83.863057	39.77796501	3	967.44	967.00	0.44
739882	-83.924936	39.78355199	1	948.72	945.32	3.41
739882	-83.924936	39.78355199	3	948.72	945.14	3.58
743020	-83.94186099	39.82565001	1	979.27	984.45	-5.18
743020	-83.94186099	39.82565001	3	979.27	984.39	-5.12
749267	-83.87895	39.88213001	1	1012.64	1003.51	9.12
749267	-83.87895	39.88213001	3	1012.64	1003.38	9.26
756115	-83.94474999	39.83421501	1	983.48	980.44	3.04
756115	-83.94474999	39.83421501	3	983.48	980.30	3.18
761822	-83.94253799	39.84006	1	966.69	973.90	-7.22
761822	-83.94253799	39.84006	3	966.69	973.54	-6.85
761840	-83.87039001	39.86190001	1	1003.47	993.60	9.87
761840	-83.87039001	39.86190001	3	1003.47	993.26	10.20
768973	-83.93256699	39.81879401	1	975.87	992.03	-16.17
768973	-83.93256699	39.81879401	3	975.87	991.92	-16.05
771225	-83.90057	39.85924	3	892.38	924.99	-32.61
771225	-83.90057	39.85924	3	892.38	924.99	-32.61
772970	-83.90182	39.85702999	3	875.00	914.61	-39.61
772970	-83.90182	39.85702999	3	875.00	914.61	-39.61
772997	-83.86354	39.91112	1	954.60	934.23	20.37
772997	-83.86354	39.91112	3	954.60	932.44	22.16
776950	-83.88952	39.89832	1	996.24	984.47	11.78
776950	-83.88952	39.89832	3	996.24	983.63	12.62
781219	-83.79497198	39.791858	1	997.02	1009.43	-12.40
781219	-83.79497198	39.791858	3	997.02	1009.36	-12.33
781224	-83.94904101	39.829431	1	979.95	982.44	-2.48
781224	-83.94904101	39.829431	3	979.95	982.38	-2.43
781665	-83.90357999	39.78661001	1	985.02	977.68	7.34
781665	-83.90357999	39.78661001	3	985.02	977.11	7.91
789529	-83.92907	39.75838299	3	886.89	873.09	13.80
789529	-83.92907	39.75838299	3	886.89	873.09	13.80
794397	-83.793696	39.78860001	1	1002.11	1016.44	-14.34
794397	-83.793696	39.78860001	3	1002.11	1016.37	-14.26
795663	-83.86611399	39.768563	1	980.78	987.43	-6.65
795663	-83.86611399	39.768563	3	980.78	987.30	-6.52
796211	-83.94530301	39.83098801	1	986.16	981.35	4.81

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
796211	-83.94530301	39.83098801	3	986.16	981.29	4.87
796212	-83.94888199	39.80407101	1	1001.59	1011.98	-10.39
796212	-83.94888199	39.80407101	3	1001.59	1011.81	-10.22
801181	-83.88839002	39.89401	1	1007.99	1002.13	5.86
801181	-83.88839002	39.89401	3	1007.99	1001.50	6.49
801247	-83.86500001	39.87095998	1	1007.72	1002.62	5.10
801247	-83.86500001	39.87095998	3	1007.72	1002.06	5.66
804193	-83.788793	39.78721101	1	1030.55	1019.25	11.30
804193	-83.788793	39.78721101	3	1030.55	1019.09	11.45
810691	-83.904	39.85892999	3	890.42	919.27	-28.84
810691	-83.904	39.85892999	3	890.42	919.27	-28.84
827058	-83.96138401	39.83734901	1	960.26	958.91	1.35
827058	-83.96138401	39.83734901	3	960.26	958.66	1.60
831916	-83.84704999	39.86429001	1	1007.84	1004.90	2.94
831916	-83.84704999	39.86429001	3	1007.84	1004.81	3.03
835316	-83.88731999	39.80700001	1	962.45	952.19	10.26
835316	-83.88731999	39.80700001	3	962.45	951.83	10.62
837334	-83.83086001	39.77676001	1	1037.89	1038.88	-0.99
837334	-83.83086001	39.77676001	3	1037.89	1038.59	-0.70
837340	-83.91624	39.87603999	1	957.93	952.42	5.52
837340	-83.91624	39.87603999	3	957.93	951.24	6.69
837347	-83.90653999	39.78963999	1	982.05	983.11	-1.06
837347	-83.90653999	39.78963999	3	982.05	982.64	-0.59
837776	-83.94142799	39.829181	1	985.89	980.11	5.78
837776	-83.94142799	39.829181	3	985.89	980.04	5.84
842929	-83.94972601	39.83344	1	978.17	982.16	-3.99
842929	-83.94972601	39.83344	3	978.17	981.94	-3.77
861132	-83.85038	39.83041	1	1009.00	1022.99	-13.99
861132	-83.85038	39.83041	3	1009.00	1022.92	-13.92
864377	-83.95105001	39.80843	1	993.52	1003.30	-9.78
864377	-83.95105001	39.80843	3	993.52	1003.16	-9.64
864678	-83.90794001	39.89477001	1	927.55	953.35	-25.80
864678	-83.90794001	39.89477001	3	927.55	953.00	-25.45
865307	-83.88912999	39.85233	1	933.11	949.95	-16.84
865307	-83.88912999	39.85233	3	933.11	949.77	-16.66
865332	-83.81894	39.81300999	1	1025.48	1020.49	4.99
865332	-83.81894	39.81300999	3	1025.48	1020.43	5.05
868206	-83.82025999	39.8676	1	1024.35	1016.98	7.37
868206	-83.82025999	39.8676	3	1024.35	1016.85	7.50
872580	-83.94524401	39.837642	1	973.19	979.75	-6.56
872580	-83.94524401	39.837642	3	973.19	979.42	-6.23
872608	-83.94845999	39.83568001	1	975.64	982.14	-6.50
872608	-83.94845999	39.83568001	3	975.64	981.82	-6.18
875848	-83.88514999	39.76549	1	965.90	955.49	10.42
875848	-83.88514999	39.76549	3	965.90	955.06	10.84
878398	-83.92678002	39.82794001	1	945.75	967.88	-22.13
878398	-83.92678002	39.82794001	3	945.75	967.79	-22.04
881864	-83.81004999	39.81615001	1	1003.96	1018.22	-14.25
881864	-83.81004999	39.81615001	3	1003.96	1018.03	-14.07

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
888410	-83.80856999	39.81855001	1	1013.98	1017.04	-3.05
888410	-83.80856999	39.81855001	3	1013.98	1016.98	-3.00
889814	-83.95511998	39.82901999	1	952.67	978.93	-26.25
889814	-83.95511998	39.82901999	3	952.67	978.85	-26.18
890404	-83.85457998	39.83163	1	1021.93	1020.80	1.12
890404	-83.85457998	39.83163	3	1021.93	1020.73	1.19
890425	-83.89617001	39.79476	1	1011.08	1003.78	7.30
890425	-83.89617001	39.79476	3	1011.08	1003.19	7.89
890686	-83.81482998	39.81087999	1	1005.52	1016.01	-10.49
890686	-83.81482998	39.81087999	3	1005.52	1015.95	-10.42
890704	-83.85589001	39.90514001	1	966.19	954.56	11.63
890704	-83.85589001	39.90514001	3	966.19	953.58	12.61
895055	-83.91292999	39.83463	1	951.53	950.32	1.20
895055	-83.91292999	39.83463	3	951.53	950.14	1.38
895512	-83.87607001	39.90326001	1	972.07	977.51	-5.45
895512	-83.87607001	39.90326001	3	972.07	976.63	-4.57
895554	-83.91614	39.91251	1	905.61	922.29	-16.68
895554	-83.91614	39.91251	3	905.61	921.79	-16.18
895568	-83.95505301	39.83777899	1	970.98	974.94	-3.96
895568	-83.95505301	39.83777899	3	970.98	974.60	-3.62
896678	-83.92887999	39.76116	1	912.92	923.93	-11.01
896678	-83.92887999	39.76116	3	912.92	922.44	-9.52
901115	-83.91219002	39.90858001	3	869.30	891.20	-21.91
901130	-83.87566999	39.91746001	3	872.45	880.98	-8.53
901173	-83.91448001	39.91153	1	890.11	917.24	-27.13
901173	-83.91448001	39.91153	3	890.11	916.83	-26.72
901187	-83.92461001	39.81698	1	950.36	994.74	-44.38
901187	-83.92461001	39.81698	3	950.36	994.60	-44.23
902143	-83.86056999	39.83195001	1	1019.43	1017.87	1.56
902143	-83.86056999	39.83195001	3	1019.43	1017.80	1.63
902733	-83.88651399	39.76436399	1	958.00	954.18	3.82
902733	-83.88651399	39.76436399	3	958.00	953.49	4.51
908663	-83.83397001	39.8997	1	962.32	971.65	-9.33
908663	-83.83397001	39.8997	3	962.32	971.47	-9.15
909832	-83.91762001	39.88112001	1	962.08	959.24	2.85
909832	-83.91762001	39.88112001	3	962.08	958.06	4.02
909861	-83.95944	39.83380999	1	971.54	968.35	3.19
909861	-83.95944	39.83380999	3	971.54	968.07	3.47
909865	-83.93866998	39.85384999	1	921.11	908.00	13.11
909865	-83.93866998	39.85384999	3	921.11	881.65	39.46
913338	-83.90242001	39.84502	1	936.62	931.94	4.69
913338	-83.90242001	39.84502	3	936.62	931.67	4.96
916101	-83.84271999	39.85797	1	1006.88	1006.82	0.06
916101	-83.84271999	39.85797	3	1006.88	1006.75	0.13
916117	-83.87639	39.91151	1	917.00	923.62	-6.61
916117	-83.87639	39.91151	3	917.00	912.11	4.89
916459	-83.90854001	39.80604999	1	993.97	1012.86	-18.90
916459	-83.90854001	39.80604999	3	993.97	1012.62	-18.66
916462	-83.92745	39.90132	3	867.37	866.03	1.34

TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
917968	-83.90121	39.86165999	3	885.65	933.73	-48.09
917968	-83.90121	39.86165999	3	885.65	933.73	-48.09
921870	-83.8461	39.86961001	1	998.72	1002.33	-3.61
921870	-83.8461	39.86961001	3	998.72	1002.10	-3.38
921895	-83.89758001	39.76058001	3	900.62	895.25	5.38
921895	-83.89758001	39.76058001	3	900.62	895.25	5.38
921917	-83.94632999	39.85434999	3	872.20	883.56	-11.36
921917	-83.94632999	39.85434999	3	872.20	883.56	-11.36
924802	-83.82410001	39.8586	1	1018.15	1016.60	1.55
924802	-83.82410001	39.8586	3	1018.15	1016.52	1.63
924815	-83.80535001	39.82230001	1	1020.37	1014.90	5.47
924815	-83.80535001	39.82230001	3	1020.37	1014.81	5.56
924825	-83.81825002	39.81679	1	1036.13	1022.73	13.40
924825	-83.81825002	39.81679	3	1036.13	1022.67	13.46
924829	-83.81478	39.85565	1	1022.06	1023.07	-1.01
924829	-83.81478	39.85565	3	1022.06	1022.56	-0.50
927685	-83.88805	39.83478	1	979.75	986.05	-6.30
927685	-83.88805	39.83478	3	979.75	985.96	-6.21
929237	-83.86784001	39.86768999	1	1003.84	999.28	4.56
929237	-83.86784001	39.86768999	3	1003.84	998.71	5.13
930356	-83.95441999	39.84085999	1	966.35	970.61	-4.26
930356	-83.95441999	39.84085999	3	966.35	970.24	-3.89
933586	-83.83676001	39.90498	1	970.60	956.27	14.33
933586	-83.83676001	39.90498	3	970.60	956.00	14.61
933724	-83.89033999	39.80547001	1	991.05	976.70	14.35
933724	-83.89033999	39.80547001	3	991.05	976.09	14.96
939796	-83.83540999	39.89073999	1	985.42	986.64	-1.21
939796	-83.83540999	39.89073999	3	985.42	986.48	-1.05
939826	-83.86705001	39.89515999	1	990.30	1001.50	-11.20
939826	-83.86705001	39.89515999	3	990.30	1000.90	-10.60
940994	-83.90756999	39.80953	1	1010.18	1010.70	-0.51
940994	-83.90756999	39.80953	3	1010.18	1010.44	-0.26
942838	-83.87510999	39.83114001	1	1015.62	1006.67	8.95
942838	-83.87510999	39.83114001	3	1015.62	1006.60	9.02
946239	-83.94274002	39.90227	3	863.50	880.84	-17.34
954461	-83.86594001	39.83656001	1	1016.02	1013.36	2.66
954461	-83.86594001	39.83656001	3	1016.02	1013.28	2.74
955756	-83.98691599	39.897694	3	855.34	852.00	3.34
955794	-83.95914	39.90231	3	866.33	872.10	-5.77
962845	-83.89853002	39.84893	3	893.13	932.34	-39.21
962845	-83.89853002	39.84893	3	893.13	932.34	-39.21
963155	-83.92394	39.84833001	3	889.33	893.66	-4.33
967091	-83.91046999	39.77702999	3	906.02	911.27	-5.25
967091	-83.91046999	39.77702999	3	906.02	911.27	-5.25
969114	-83.84604998	39.89834	1	950.40	951.05	-0.65
969114	-83.84604998	39.89834	3	950.40	950.92	-0.52
971359	-83.82774998	39.78488999	1	1024.56	1033.07	-8.51
971359	-83.82774998	39.78488999	3	1024.56	1032.46	-7.90
976249	-83.84455001	39.92615999	1	924.93	908.00	16.93

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
976249	-83.84455001	39.92615999	3	924.93	895.02	29.91
977058	-83.829472	39.83127701	1	1026.01	1026.77	-0.77
977058	-83.829472	39.83127701	3	1026.01	1026.70	-0.70
977113	-83.96611	39.90239001	3	880.21	852.04	28.18
977115	-83.91958298	39.83986101	1	945.84	908.26	37.58
977115	-83.91958298	39.83986101	3	945.84	907.60	38.23
981219	-83.87499999	39.83999999	1	1002.28	1003.87	-1.59
981219	-83.87499999	39.83999999	3	1002.28	1003.63	-1.36
981873	-83.84233002	39.92117001	1	944.95	908.00	36.95
981873	-83.84233002	39.92117001	3	944.95	905.43	39.51
981877	-83.84813001	39.92577	3	901.45	892.45	9.00
988216	-83.83941701	39.88250001	1	992.38	986.78	5.59
988216	-83.83941701	39.88250001	3	992.38	986.67	5.71
988291	-83.85517	39.80483001	1	1023.71	1026.79	-3.08
988291	-83.85517	39.80483001	3	1023.71	1026.47	-2.75
989775	-83.81393299	39.79271701	1	994.24	997.61	-3.38
989775	-83.81393299	39.79271701	3	994.24	997.59	-3.35
989787	-83.87816702	39.9234	1	969.92	960.00	9.92
989787	-83.87816702	39.9234	3	969.92	957.00	12.92
989794	-83.82821702	39.79605	1	985.89	968.15	17.73
989794	-83.82821702	39.79605	3	985.89	968.72	17.16
990706	-83.82439999	39.85511	1	1005.02	1016.49	-11.48
990706	-83.82439999	39.85511	3	1005.02	1016.43	-11.42
990726	-83.892472	39.877389	1	993.18	1007.97	-14.79
990726	-83.892472	39.877389	3	993.18	1007.11	-13.93
990771	-83.90825998	39.86052999	3	877.15	914.74	-37.60
990771	-83.90825998	39.86052999	3	877.15	914.74	-37.60
990783	-83.91097002	39.88311001	1	972.59	979.60	-7.01
990783	-83.91097002	39.88311001	3	972.59	979.18	-6.58
994435	-83.83717001	39.88614	1	998.51	987.75	10.76
994435	-83.83717001	39.88614	3	998.51	987.62	10.89
994479	-83.82106	39.86302998	1	1028.26	1018.58	9.67
994479	-83.82106	39.86302998	3	1028.26	1018.47	9.78
994494	-83.85924999	39.90572	1	967.59	960.42	7.18
994494	-83.85924999	39.90572	3	967.59	959.50	8.10
997970	-83.90031001	39.78926001	1	1005.48	993.92	11.56
997970	-83.90031001	39.78926001	3	1005.48	993.34	12.13
999868	-83.84266701	39.77884998	1	1044.68	1038.86	5.82
999868	-83.84266701	39.77884998	3	1044.68	1038.36	6.32
1002931	-83.845222	39.87227799	1	986.84	998.36	-11.52
1002931	-83.845222	39.87227799	3	986.84	998.23	-11.39
1003792	-83.92166999	39.85158001	3	890.99	891.68	-0.70
1004427	-83.84777799	39.77666701	1	1038.07	1034.98	3.09
1004427	-83.84777799	39.77666701	3	1038.07	1034.55	3.52
1005135	-83.83525	39.77866701	1	1049.13	1040.70	8.43
1005135	-83.83525	39.77866701	3	1049.13	1040.39	8.73
1005177	-83.85341698	39.91375001	3	885.57	893.13	-7.56
1005177	-83.85341698	39.91375001	3	885.57	893.13	-7.56
1005179	-83.93872198	39.84219401	1	965.58	962.25	3.33

**TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
1005179	-83.93872198	39.84219401	3	965.58	961.81	3.77
1005183	-83.915861	39.848639	3	886.70	895.44	-8.74
1005183	-83.915861	39.848639	3	886.70	895.44	-8.74
1007314	-83.91799999	39.81905601	1	963.54	991.50	-27.96
1007314	-83.91799999	39.81905601	3	963.54	991.44	-27.90
1007326	-83.88166701	39.81197201	1	947.56	973.42	-25.86
1007326	-83.88166701	39.81197201	3	947.56	973.19	-25.63
1007788	-83.85916702	39.816111	1	1008.83	1013.52	-4.68
1007788	-83.85916702	39.816111	3	1008.83	1014.60	-5.77
1007977	-83.786263	39.789553	1	1034.99	1010.96	24.03
1007977	-83.786263	39.789553	3	1034.99	1008.71	26.28
1007985	-83.83755002	39.86258	1	1004.49	1002.40	2.09
1007985	-83.83755002	39.86258	3	1004.49	1002.82	1.67
1007989	-83.82857999	39.77425001	1	1033.22	1034.36	-1.13
1007989	-83.82857999	39.77425001	3	1033.22	1034.04	-0.82
1011276	-83.84083002	39.82331	1	1034.95	1027.52	7.43
1011276	-83.84083002	39.82331	3	1034.95	1027.46	7.50
1011291	-83.81011	39.81247001	1	1019.10	1015.92	3.18
1011291	-83.81011	39.81247001	3	1019.10	1015.81	3.28
1012451	-83.90446001	39.85302001	3	876.79	898.89	-22.09
1012456	-83.82187001	39.78634999	1	1018.44	1022.04	-3.60
1012456	-83.82187001	39.78634999	3	1018.44	1021.93	-3.49
1013551	-83.91588998	39.79397	1	980.62	969.01	11.61
1013551	-83.91588998	39.79397	3	980.62	968.93	11.70
1013552	-83.92310999	39.79836001	1	982.74	974.67	8.07
1013552	-83.92310999	39.79836001	3	982.74	974.89	7.85
1013576	-83.89547202	39.867333	1	957.77	961.81	-4.04
1013576	-83.89547202	39.867333	3	957.77	961.65	-3.88
2002472	-83.93333	39.81555999	1	996.95	997.09	-0.15
2002472	-83.93333	39.81555999	3	996.95	996.98	-0.03
2005410	-83.87805602	39.9075	1	955.00	946.82	8.18
2005410	-83.87805602	39.9075	3	955.00	945.13	9.87
2007135	-83.81527799	39.84527799	1	1017.32	1023.70	-6.37
2007135	-83.81527799	39.84527799	3	1017.32	1023.61	-6.29
2008621	-83.87249999	39.800833	1	942.91	992.81	-49.91
2008621	-83.87249999	39.800833	3	942.91	992.35	-49.44
2009103	-83.85700999	39.87709	1	989.81	1001.33	-11.52
2009103	-83.85700999	39.87709	3	989.81	1001.13	-11.32
2010647	-83.86936101	39.839833	1	1012.91	1009.64	3.28
2010647	-83.86936101	39.839833	3	1012.91	1009.46	3.45
2011357	-83.90391	39.87610001	1	976.06	980.17	-4.11
2011357	-83.90391	39.87610001	3	976.06	980.02	-3.96
2011560	-83.91527799	39.90363901	3	870.50	869.37	1.14
2012396	-83.827889	39.84236099	1	1015.44	1022.88	-7.44
2012396	-83.827889	39.84236099	3	1015.44	1022.80	-7.36
2013515	-83.923111	39.81469401	1	931.88	997.81	-65.93
2013515	-83.923111	39.81469401	3	931.88	997.69	-65.81
2013742	-83.84045001	39.84648301	1	1048.07	1017.60	30.47
2013742	-83.84045001	39.84648301	3	1048.07	1017.51	30.55

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WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY**

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
2013836	-83.94791701	39.84172201	1	964.82	974.08	-9.25
2013836	-83.94791701	39.84172201	3	964.82	973.72	-8.90
2014690	-83.90466699	39.863167	3	886.78	933.90	-47.11
2014690	-83.90466699	39.863167	3	886.78	933.90	-47.11
2014769	-83.90349999	39.80200001	1	1007.80	1015.91	-8.12
2014769	-83.90349999	39.80200001	3	1007.80	1015.66	-7.86
2018180	-83.90825	39.86433299	3	877.14	925.89	-48.75
2018180	-83.90825	39.86433299	3	877.14	925.89	-48.75
2019988	-83.82363899	39.868222	1	1024.54	1013.50	11.04
2019988	-83.82363899	39.868222	3	1024.54	1013.41	11.13
2021103	-83.86080601	39.874222	1	1005.06	1004.40	0.66
2021103	-83.86080601	39.874222	3	1005.06	1003.90	1.16
2022050	-83.82179	39.79022999	1	1002.73	1006.92	-4.20
2022050	-83.82179	39.79022999	3	1002.73	1006.80	-4.07
2023931	-83.90891699	39.847267	3	901.31	897.83	3.48
2023931	-83.90891699	39.847267	3	901.31	897.83	3.48
2025266	-83.91916702	39.83555601	1	949.54	941.63	7.92
2025266	-83.91916702	39.83555601	3	949.54	941.41	8.13
2026806	-83.84944998	39.92418299	3	888.67	891.55	-2.89
2030960	-83.89188302	39.88373299	1	1006.02	1015.60	-9.58
2030960	-83.89188302	39.88373299	3	1006.02	1014.97	-8.94
2031492	-83.94180599	39.89927801	3	860.39	865.30	-4.91
2032614	-83.90452799	39.861083	3	882.36	926.22	-43.86
2032614	-83.90452799	39.861083	3	882.36	926.22	-43.86
2033082	-83.80089001	39.823933	1	998.65	1010.86	-12.21
2033082	-83.80089001	39.823933	3	998.65	1009.70	-11.06
2034157	-83.82647199	39.795	1	985.07	978.92	6.15
2034157	-83.82647199	39.795	3	985.07	979.23	5.84
2034569	-83.882417	39.85488899	1	955.73	963.39	-7.66
2034569	-83.882417	39.85488899	3	955.73	963.23	-7.50
2037963	-83.95940699	39.84565001	1	938.95	942.09	-3.14
2037963	-83.95940699	39.84565001	3	938.95	941.90	-2.95
2039086	-83.85264302	39.84164801	1	1012.66	1015.91	-3.25
2039086	-83.85264302	39.84164801	3	1012.66	1015.83	-3.17
2040910	-83.95822199	39.83105601	1	969.61	972.65	-3.05
2040910	-83.95822199	39.83105601	3	969.61	972.41	-2.80
2043590	-83.85779299	39.82451702	1	1010.46	1019.96	-9.50
2043590	-83.85779299	39.82451702	3	1010.46	1019.89	-9.44
2046849	-83.88699999	39.7961	3	994.19	955.05	39.14
2046915	-83.921	39.846222	3	892.88	895.76	-2.88
2046915	-83.921	39.846222	3	892.88	895.76	-2.88
2047741	-83.86859699	39.859397	1	979.67	993.76	-14.10
2047741	-83.86859699	39.859397	3	979.67	993.66	-13.99
2047801	-83.84344999	39.86309999	1	1004.67	1003.40	1.27
2047801	-83.84344999	39.86309999	3	1004.67	1003.36	1.30
2048875	-83.82828102	39.894498	1	1001.25	1001.80	-0.55
2048875	-83.82828102	39.894498	3	1001.25	999.67	1.58
2048984	-83.82089999	39.841087	1	1000.15	1024.14	-23.98
2048984	-83.82089999	39.841087	3	1000.15	1024.07	-23.91

TABLE 2.
WATER WELLS USED AS CALIBRATION TARGETS
ENON SAND GRAVEL II QUARRY

ODNR Log No.	Latitude	Longitude	Model Layer	Water-Level Elevation From ODNR Well Log Data (ft., MSL)	Modeled Water-Level Elevation (ft., MSL)	Residual (feet)
2050417	-83.84093201	39.90333201	1	958.36	948.93	9.43
2050417	-83.84093201	39.90333201	3	958.36	948.70	9.66
2051441	-83.93244399	39.781	1	941.09	956.92	-15.83
2051441	-83.93244399	39.781	3	941.09	956.40	-15.31
2051927	-83.933278	39.80080601	1	960.58	1004.91	-44.33
2051927	-83.933278	39.80080601	3	960.58	1004.76	-44.18
9912041	-83.94115198	39.87568	3	848.01	861.97	-13.96
9912089	-83.85877099	39.92208899	1	917.89	908.00	9.89
9912089	-83.85877099	39.92208899	3	917.89	899.96	17.94
9912097	-83.85700899	39.923096	1	923.97	908.00	15.97
9912097	-83.85700899	39.923096	3	923.97	898.38	25.59
9912190	-83.857069	39.92612799	1	900.12	908.00	-7.88
9912190	-83.857069	39.92612799	3	900.12	898.30	1.82
9912221	-83.839986	39.922438	1	936.36	922.15	14.20
9912221	-83.839986	39.922438	3	936.36	920.33	16.03
9929040	-83.84578401	39.78779399	1	975.00	959.62	15.38
9929040	-83.84578401	39.78779399	3	975.00	953.03	21.97
9929067	-83.890001	39.81718499	1	954.56	961.88	-7.33
9929067	-83.890001	39.81718499	3	954.56	966.17	-11.62
9929069	-83.88747901	39.81059399	1	950.99	954.20	-3.22
9929069	-83.88747901	39.81059399	3	950.99	955.67	-4.68
9929071	-83.89550299	39.778615	1	943.45	925.36	18.10
9929071	-83.89550299	39.778615	3	943.45	924.93	18.52

TABLE 3.
GROUNDWATER FLOW MODEL BUDGETS
ENON SAND & GRAVEL II QUARRY
NOTE: ALL UNITS ARE GALLONS PER DAY

SCENARIO 1 - CURRENT CONDITIONS				
	<u>IN</u>	<u>OUT</u>		
WELLS	0	1,392,484		
CONSTANT HEADS	2,240,612	2,826,109		
RIVERS	2,278,483	10,607,597		
RECHARGE FROM PRECIPITATION	10,307,365	0		
TOTAL	14,826,460	14,826,190		
ERROR	0.0018%			
SCENARIO 2 - PHASE I QUARRY DEWATERING			CHANGE FROM SCENARIO 1	
	<u>IN</u>	<u>OUT</u>	<u>IN</u>	<u>OUT</u>
WELLS	0	1,392,484	0	0
CONSTANT HEADS	2,241,479	2,825,361	868	-748
RIVERS	2,325,824	10,441,459	47,341	-166,138
DRAINS	0	260,880	0	-260,880
RECHARGE FROM PRECIPITATION	10,306,325	0	-1,040	0
TOTAL	14,873,628	14,920,184	47,169	93,994
ERROR	-0.3130%			
SCENARIO 3 - PHASE II QUARRY DEWATERING				
	<u>IN</u>	<u>OUT</u>	<u>IN</u>	<u>OUT</u>
WELLS	0	1,392,484	0	0
CONSTANT HEADS	2,289,007	2,839,176	48,396	13,068
RIVERS	2,376,733	10,250,285	98,250	-357,312
DRAINS	0	521,446	0	-521,446
RECHARGE FROM PRECIPITATION	10,303,483	0	-3,882	0
TOTAL	14,969,223	15,003,391	95,594	83,208
ERROR	-0.2283%			

APPENDIX A.

WATER-WELL LOGS USED ON CROSS SECTIONS

**LOGS USED ON CROSS-SECTION A-A'
WEST TO EAST**



Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 139422

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LUTHER OBER

County: CLARK

Township: MADRIVER

Section Number: 11

Address: SR 4

Lot Number:

City:

State: OH

Zip Code:

Location Number: 162

Location Map Year: 1980

Location Area:

Latitude: 39.859286

Longitude: -83.969811

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 33 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 33 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: GRAVEL

Well Use:

Date of Completion: 1/10/1955

Total Depth: 33 ft.

Screen Length:

Driller's Name:

Slot Size:

Screen Diameter:

Material:

Type:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: 17 ft.

Test Rate:

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations

TOP SOIL

From

To

0

5

GRAVEL

5

33

SAND & GRAVEL

33

33

WATER AT

33

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 921917

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BOB INGOLDSBY

County: CLARK

Township: MADRIVER

Section Number:

Address: 5463 ENON-XENIA PI

Lot Number:

City:

State: OH

Zip Code: 45324

Location Number:

Location Map Year:

Location Area:

Latitude: 39.854350

Longitude: -83.94633

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

Borehole Depth: 1: 35 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 35 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SHALE

Well Use: DOMESTIC

Date of Completion: 3/28/2001

Total Depth: 97 ft.

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 50 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	4
LIMESTONE	4	27
SHALE	27	64
LIMESTONE	64	70
SHALE	70	97

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 901172

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MINDY HOGAN

County: CLARK

Township: MADRIVER

Address: 5446 HUNTER RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.852720

Longitude: -83.93843

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

Borehole Depth: 1: 200 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1: 0.17 in.

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use: DOMESTIC

Date of Completion: 11/6/1999

Total Depth: 200 ft.

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 50 ft.

Test Rate: 1 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	10
SAND & GAS Gravel	10	20
LIMESTONE	20	50
SHALE	50	200

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1003792

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT LYONS*

County: *CLARK*

Address: *5429 FOWLER RD*

City:

Location Number:

Latitude: *39.851580*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.92167*

Section Number:

Lot Number:

Zip Code: *45504*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*

2:

Borehole Depth: 1: *45 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *42 ft.*

2:

Casing Thickness: 1: *0.26 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *6/12/2006*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Type:

Set Between: *From: 42 ft. To: 45 ft.*

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *SAND & GRAVEL*

Total Depth: *45 ft.*

Slot Size: *0.08 in.*

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: *DOMESTIC*

Screen Length: *3 ft.*

WELL TEST DETAILS

Static Water Level: *5 ft.*

Drawdown: *10 ft.*

Test Rate: *20 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
GRAVEL & CLAY	3	39
SAND & GRAVEL	39	45
WATER AT	43	43

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1012451

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *M VERBILLION*

County: *CLARK*

Address: *5256 HAGAN*

City:

Location Number:

Latitude: *39.853020*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90446*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8 in.*
2: *5 in.*

Borehole Depth: 1: *25 ft.*
2: *77 ft.*

Depth to Bedrock:

Casing Diameter: 1: *6 in.*
2:

Casing Length: 1: *27 ft.*
2:

Casing Thickness: 1: *0.188 in.*
2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Date of Completion: *10/6/2009*

Total Depth: *77 ft.*

Well Use: *AGRIC/IRRIG*

Driller's Name: *HALL & JENKINS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *28 ft.*

Test Rate: *25 gpm*

[Associated Reports](#)

Drawdown: *5 ft.*

Test Duration: *6 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	18
LIMESTONE	18	21
SHALE	21	25
LIMESTONE & SHALE	25	34
WHITE LIMESTONE	34	48
BROWN LIMESTONE	48	70
LIMESTONE	70	77
WATER AT	56	57
WATER AT	70	71

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 973489

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *JIM KELLY*

County: *CLARK*

Address: *5220 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.852610*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88911*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.87 in.*
2: *4.5 in.*

Borehole Depth: 1: *85 ft.*
2: *160 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5.5 in.*
2:

Casing Length: 1: *85 ft.*
2:

Casing Thickness: 1: *0.16 in.*
2:

Casing Height Above Ground: *1*

Aquifer Type:

Date of Completion: *4/26/2005*

Total Depth: *160 ft.*

Well Use: *DOMESTIC*

Driller's Name: *EATON WELL DRILLING INC*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *85 ft.*

Test Rate: *5 gpm*

[Associated Reports](#)

Drawdown: *40 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	11
GRAVEL & CLAY	11	82
LIMESTONE	82	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908665

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRIS BLUE

County: CLARK

Address: 3620 FAIRFIELD PKWY

City:

Location Number:

Latitude: 39.854080

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88358

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 45 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 45 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1.50

Date of Completion: 4/22/2000

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
GRAY CLAY	9	45
LIMESTONE	45	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33539

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TOM COTTINGHAM*

County: *CLARK*

Township: *GREEN*

Section Number: *11*

Address: *CATAWBA RIDGE RD*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *367*

Location Map Year: *1945*

Location Area:

Latitude: *39.851124*

Longitude: *-83.861004*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *51 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *27 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *8/17/1948*

Total Depth: *51 ft.*

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *23 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *6 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations

From

To

CLAY

0

27

LIMESTONE

27

51

WATER AT

51

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 750040

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT THOMPSON*

County: *CLARK*

Township: *MADRIVER*

Address: *5301 SPRINGFIELD-XENIA RD*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.850110*

Longitude: *-83.85791*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *90 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *27 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *10/10/1992*

Total Depth: *90 ft.*

Well Use: *DOMESTIC*

Driller's Name: *BARKER'S WELL DRILLING, INC.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *28 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	8
DRY GRAVEL	8	14
GRAY CLAY	14	27
LIMESTONE	27	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 108468

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CORP OF ENGINEERS*

County: *CLARK*

Township: *GREEN*

Section Number: *5*

Address: *SR 794*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *71*

Location Map Year: *1980*

Location Area:

Latitude: *39.847931*

Longitude: *-83.8405*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *153 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *8 in.*

Casing Length: 1: *34 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *6/25/1954*

Total Depth: *153 ft.*

Driller's Name: *SELLS WELL AND WATER SUPPLY*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *14 ft.*

Test Rate: *100 gpm*

[Associated Reports](#)

Drawdown: *50 ft.*

Test Duration: *24 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
SAND	18	22
CLAY	22	31
LIMESTONE	31	153

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2007135

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRIS WADDLE

County: CLARK

Township: GREEN

Address: 5422 SPRINGFIELD-JAMESTOWN RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.845278

Longitude: -83.815278

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in

Borehole Depth: 1: 37 ft

Depth to Bedrock:

2: 4.75 in

2: 79 ft

Casing Diameter: 1: 5 in

Casing Length: 1: 37 ft

Casing Thickness: 1: 0.327 in

2:

2:

2:

Casing Height Above Ground: 1.30

Aquifer Type: LIMESTONE

Date of Completion: 11/18/2006

Total Depth: 79 ft

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite/cement slurry

Vol/Wt Used: 250

Method of Installation: Pumped w/Tremie pipe

Placed TO: 37 ft. TO: 37 ft.

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 60 ft.

Test Duration: 2 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	8
GRAY CLAYEY CLAY	8	29
GRAY-BROWN COARSE/GRAVELLY GRAVEL & SAND	29	31
WHITE LIMEY LIMESTONE	31	79
WATER AT	77	77

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**LOGS USED ON CROSS SECTION B-B'
NORTH TO SOUTH**



Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955802

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SEAN MEYERS

County: CLARK

Township: SPRINGFIELD

Address: 251 ROCKWAY AVE

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.920390

Longitude: -83.88646

Section Number:

Lot Number:

Zip Code: 45503

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in

Borehole Depth: 1: 113 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 43 ft.

Casing Thickness: 1: 0.265 in

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SAND & GRAVEL

Well Use: DOMESTIC

Date of Completion: 5/12/2003

Total Depth: 113 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft

Test Rate: 35 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY/SAND/GRAVEL	8	28
CLAY & GRAVEL	28	38
LIMESTONE	38	113
WATER AT	25	25

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 653097

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *OLAN HUTZELL*

County: *CLARK*

Township: *SPRINGFIELD*

Section Number:

Address: *3970 LOWER VALLEY PIKE*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: *39.912890*

Longitude: *-83.88638*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *42 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *6 in.*

Casing Length: 1: *42 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *SAND & GRAVEL*

Well Use:

Date of Completion: *11/12/1987*

Total Depth: *42 ft.*

Driller's Name: *DEPEW WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *9.5 ft*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *4 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	20
SAND & GRAVEL	20	42

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 218324

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JUNIOR WALTERS

County: CLARK

Township: SPRINGFIELD

Section Number: 21

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 259

Location Map Year: 1980

Location Area:

Latitude: 39.909987

Longitude: -83.889218

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 39 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.13 in.

Casing Length: 1: 39 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SAND

Well Use:

Date of Completion: 6/3/1959

Total Depth: 39 ft.

Driller's Name: LOWER EDWARD H

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 8 ft.

Test Rate:

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	4
HARD SAND	4	10
GRAY HARDPAN	10	30
FINE SAND	30	35
COARSE SAND	35	39

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433727

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *EAGLE BEVERAGE CO.*

County: *CLARK*

Township: *MADRIVER*

Address: *DAYTON RD*

City:

State: *OH*

Location Number: *1*

Location Map Year: *1980*

Latitude: *39.902976*

Longitude: *-83.887791*

Section Number: *21*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *120 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *30 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *11/30/1971*

Total Depth: *120 ft.*

Well Use:

Driller's Name: *LOWER WELL DRILLING CO.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *12 ft.*

Test Rate: *12 gpm*

[Associated Reports](#)

Drawdown: *70 ft.*

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	120
WATER AT		120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 633529

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY FANNIN

County: CLARK

Address: 2023 SUNDANCE DR

City:

Location Number:

Latitude: 39.896060

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.8949

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 60 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/18/1985

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 60 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations

CLAY

LIMESTONE

From

0

14

To

14

60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 667596

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ASHFORD TURNER*

County: *CLARK*

Township: *MADRIVER*

Section Number:

Address: *4333 LONE WOLF DR*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: *39.893440*

Longitude: *-83.8956*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *93 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *30 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *7/22/1987*

Total Depth: *93 ft.*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *20 ft.*

Test Rate: *12 gpm*

[Associated Reports](#)

Drawdown: *40 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL	12	18
CLAY	18	26
LIMESTONE	26	93

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 441152

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MILLARD PERKINS*

County: *CLARK*

Township: *MADRIVER*

Section Number: 26

Address: *2732 TECUMSEH RD*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *105*

Location Map Year: *1980*

Location Area:

Latitude: *39.886292*

Longitude: *-83.899668*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *82 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *6 in.*

Casing Length: 1: *27 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *8/15/1972*

Total Depth: *82 ft.*

Driller's Name: *FYFFE T J*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *16 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations

From

To

YELLOW CLAY

0

26

LIMESTONE

26

82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2021939

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JONATHON BARTON

County: CLARK

Township: MADRIVER

Address: 3035 TECUMSEH RD S

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.882417

Longitude: -83.89975

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

Borehole Depth: 1: 43 ft.

Depth to Bedrock:

2: 4.78 in.

2: 57 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 43 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 4/14/2009

Total Depth: 100 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 60 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 43 ft.

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY & SAND	8	38
LIMESTONE	38	100
WATER AT	88	89
WATER AT	95	96

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456602

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Township: MADRIVER

Section Number: 19

Address: 4484 BROADWAY RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 111

Location Map Year: 1980

Location Area:

Latitude: 39.878150

Longitude: -83.898214

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 70 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 62 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 5/16/1973

Total Depth: 70 ft.

Driller's Name: RUPERT AND SONS DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 32 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 0.8 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	62
LIMESTONE	62	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2044521

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KIMBERLY HILLIARD*

County: *CLARK*

Township: *MADRIVER*

Address: *4624 DAYTON-SPRINGFIELD RD*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.875640*

Longitude: *-83.900318*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *37 ft.*

Depth to Bedrock:

2: *4.75 in.*

2: *150 ft.*

Casing Diameter: 1: *5 in.*

Casing Length: 1: *37 ft.*

Casing Thickness: 1: *0.327 in.*

2:

2:

2:

Casing Height Above Ground: *1.30*

Aquifer Type: *LIMESTONE*

Date of Completion: *4/30/2013*

Total Depth: *150 ft.*

Well Use: *DOMESTIC*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *250#95GALPER5BAGS*

Method of Installation: *Pumped w/Tremie pipe*

Placed *FROM: 37 ft.*

WELL TEST DETAILS

Static Water Level: *65 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *25 ft.*

Test Duration: *2 hrs.*

COMMENTS: *CLEAR*

WELL LOG

Formations

BROWN DRY SOIL

From To

0 3

GRAY LIMEY LIMESTONE

3 20

YELLOW LIMEY LIMESTONE

20 65

GRAY LIMEY LIMESTONE

65 70

WHITE LIMEY LIMESTONE

70 100

YELLOW LIMEY LIMESTONE

100 130

GRAY LIMEY SHALE & LIMESTONE

130 150

WATER AT

90 150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933626

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *JIM MCCUDDY*

County: *CLARK*

Township: *MADRIVER*

Address: *4471 REBERT PI*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.866710*

Longitude: *-83.89761*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *80 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *80 ft.*

Casing Thickness: 1: *0.265 in.*

2:

2:

2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Well Use: *DOMESTIC*

Date of Completion: *6/22/2001*

Total Depth: *80 ft.*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *25 ft.*

Test Rate: *25 gpm*

[Associated Reports](#)

Drawdown: *10 ft.*

Test Duration: *2 hrs.*

COMMENTS: *RPM MGT.*

WELL LOG

Formations

From

To

BROWN CLAY

0

12

LIMESTONE

12

80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 309338

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *SAYER JENKINS*

County: *CLARK*

Township: *MADRIVER*

Section Number: *24*

Address: *TECUMSEH RD*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *11*

Location Map Year: *1966*

Location Area:

Latitude: *39.858604*

Longitude: *-83.895684*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *75 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *10 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *10/10/1974*

Total Depth: *75 ft.*

Driller's Name: *RUBY, STAN WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *26 ft.*

Test Rate: *15 gpm*

[Associated Reports](#)

Drawdown: *15 ft.*

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	75
WATER AT		75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 150543

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *WOODROW DEMMY*

County: *CLARK*

Township: *MADRIVER*

Section Number: *23*

Address: *FAIRFIELD PIKE RD*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *179*

Location Map Year: *1980*

Location Area:

Latitude: *39.849962*

Longitude: *-83.899257*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *49 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion:

Total Depth: *49 ft.*

Driller's Name:

Slot Size:

Screen Length:

Screen Diameter:

Material:

Type:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: *8 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *8 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
HARDPAN	0	24
LIMESTONE	24	49
UNKNOWN	0	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 902119

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *DEMMY SAND & GRAVEL*

County: *CLARK*

Township: *MADRIVER*

Address: *4324 FAIRFIELD PIKE PI*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.8489*

Longitude: *-83.89861*

Section Number: *24*

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*
2: *5.5 in.*

Borehole Depth: 1: *79 ft.*
2: *200 ft.*

Depth to Bedrock:

Casing Diameter: 1: *6.5 in.*
2:

Casing Length: 1: *79 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *10/12/1999*

Total Depth: *200 ft.*

Well Use: *DOMESTIC*

Driller's Name: *EATON PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *71 ft.*

Test Rate: *40 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
SAND & GRAVEL	2	35
GRAVEL	35	64
GRAVELLY CLAY	64	76
BLUE SHALE	76	86
LIMESTONE	86	200

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 781268

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RAY KEGLEY CONST.

County: CLARK

Township: MADRIVER

Section Number:

Address: 6323 GARRISON RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.836780

Longitude: -83.89832

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 125 ft.

Depth to Bedrock:

2:

2: 125 ft.

Casing Diameter: 1: 5 in

Casing Length: 1: 28 ft.

Casing Thickness: 1:

2:

2: 28 ft.

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 10/12/1993

Total Depth: 125 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL	9	21
LIMESTONE	21	60
SHALE	60	85
LIMESTONE	85	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 9929067

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *VILLAGE OF YELLOW SP*

County: *GREENE*

Township: *MIAMI*

Section Number: *21*

Address:

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *26*

Location Map Year: *1945*

Location Area:

Latitude: *39.817185*

Longitude: *-83.890001*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *114 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *8 in.*

Casing Length: 1: *23 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *SHALE*

Date of Completion: *10/15/1946*

Total Depth: *114 ft.*

Well Use: *MUNICIPAL*

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate: *60 gpm*

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
GLACIAL DRIFT	0	19
WHITE LIMESTONE	19	40
LIMESTONE & SHALE	40	70
LIMESTONE	70	111
SHALE	111	114

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 9929069

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CANNING CO.*

County: *GREENE*

Address:

City:

Location Number: *140*

Latitude: *39.810594*

Township: *MIAMI*

State: *OH*

Location Map Year: *1945*

Longitude: *-83.887479*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *135 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1:

2:

Casing Length: 1:

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *5/1/1905*

Driller's Name: *HUGHES WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *135 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level:

Drawdown:

COMMENTS:

Test Rate: *60 gpm*

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
SURFACE	0	4
LIMESTONE	4	85
SHALE	85	115
BLUE LIMESTONE	115	135
SMALL WATER AT		85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933724

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *YELLOW SPRINGS SCHOO*

County: *GREENE*

Township: *MIAMI*

Section Number:

Address: *201 WALNUT ST S*

Lot Number:

City:

State: *OH*

Zip Code: *45387*

Location Number:

Location Map Year:

Location Area:

Latitude: *39.805470*

Longitude: *-83.89034*

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *110 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *110 ft.*

Casing Thickness: 1: *0.327 in.*

2:

2:

2:

Casing Height Above Ground: *1*

Aquifer Type: *SHALE*

Well Use: *AGRIC/IRRIG*

Date of Completion: *12/5/2001*

Total Depth: *110 ft.*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *5 ft.*

Test Rate: *45 gpm*

[Associated Reports](#)

Drawdown: *80 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
GRAY CLAY & GRAVEL	8	12
LIMESTONE	112	105
SHALE	105	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 166011

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ANTIOCH COLLEGE*

County: *GREENE*

Township: *MIAMI*

Section Number:

Address:

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *79*

Location Map Year: *1989*

Location Area:

Latitude: *39.800804*

Longitude: *-83.888588*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *138 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *6 in.*

Casing Length: 1: *17 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *12/15/1955*

Total Depth: *138 ft.*

Driller's Name: *BARNES NEVIN*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *115 ft.*

Test Rate: *30 gpm*

[Associated Reports](#)

Drawdown: *4 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
SOIL	0	2
CLAY	2	5
LIMESTONE	5	50
LIMESTONE	50	60
LIMESTONE	60	80
LIMESTONE	80	100
LIMESTONE	100	110
LIMESTONE	110	138

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2046849

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *ANTIOCH COLLEGE*

County: *GREENE*

Township: *MIAMI*

Address: *MARSHAL ST*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.7961*

Longitude: *-83.887*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *6 in.*

Borehole Depth: 1: *310 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1:

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground: *0*

Aquifer Type: *LIMESTONE*

Date of Completion: *10/28/2013*

Total Depth:

Well Use: *HTG/COOLING*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *400/1000*

Method of Installation: *Pumped w/Tremie pipe*

Placed FROM: *305 ft.*

WELL TEST DETAILS

Static Water Level:

Test Rate:

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
GRAY LIMESTONE	8	130
GRAY SHALE	130	310

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 909834

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JEAN LOPEZ

County: GREENE

Address: 1635 SPILAN DR

City:

Location Number:

Latitude: 39.786950

Township: MIAMI

State: OH

Location Map Year:

Longitude: -83.8954

Section Number:

Lot Number:

Zip Code: 45387

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.5 in.

2:

Borehole Depth: 1: 25 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1: 0.316 in

2:

Casing Height Above Ground: 1

Date of Completion: 6/2/2000

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 141 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 109 ft.

Drawdown: 1 ft.

Test Rate: 9 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	17
BROWN LIMESTONE	17	45
WHITE LIMESTONE	45	55
GRAY LIMESTONE	55	90
GREEN LIMESTONE	90	125
GREEN SHALE	125	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 257612

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *HOWARD KAHOE*

County: *GREENE*

Address: *SPELLANHYDE RD*

City:

Location Number: *49*

Latitude: *39.784154*

Township: *MIAMI*

State: *OH*

Location Map Year: *1989*

Longitude: *-83.895391*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *59 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *17 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/17/1961*

Driller's Name: *HUGHES WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *20 ft.*

Drawdown: *39 ft*

Aquifer Type: *SHALE*

Total Depth: *59 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	16
LIMESTONE	16	30
LIMESTONE & SHALE	30	53
BLUE SHALE	53	59

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 9929072

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MORRIS BEAN CO.#3

County: GREENE

Township: MIAMI

Section Number: 24

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 174

Location Map Year: 1945

Location Area:

Latitude: 39.778505

Longitude: -83.895571

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 103 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1:

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 9/1/1949

Total Depth: 103 ft.

Driller's Name: LAYNE-OHIO, COLS

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

WELL TEST DETAILS

Static Water Level:

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	19
BLUE CLAY	19	25
SHALE	25	38
GRAY LIMESTONE	38	45
LIMESTONE	45	74
CREVICE	74	79
FINE SHALE	79	79
SHALE	79	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 267824

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: VILLAGE OF YELLOW SP

County: GREENE

Township: MIAMI

Section Number:

Address: JACOBY RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 45

Location Map Year: 1989

Location Area:

Latitude: 39.768994

Longitude: -83.897492

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 114 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1:

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 7/23/1962

Total Depth: 114 ft.

Driller's Name: MOODY'S OF DAYTON, INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate:

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
GRAVEL	2	22
TILL	22	40
CLAY	40	60
TILL	60	96
SHALE	96	114

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 769947

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL SAMPSON

County: GREENE

Township: XENIA

Section Number:

Address: 736 JACOBY RD

Lot Number:

City:

State: OH

Zip Code: 45385

Location Number:

Location Map Year:

Location Area:

Latitude: 39.762406

Longitude: -83.899165

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 130 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use: DOMESTIC

Date of Completion: 8/1/1994

Total Depth: 130 ft.

Driller's Name: DARBYS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 55 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 3 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
SAND & GRAVEL	10	25
LIMESTONE	25	85
SHALE	85	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 875835

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN D. KYLE

County: GREENE

Address: 2490 CLARK RUN RD

City:

Location Number:

Latitude: 39.757070

Township: XENIA

State: OH

Location Map Year:

Longitude: -83.89723

Section Number:

Lot Number:

Zip Code: 45385

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 5.5 in.

2:

Borehole Depth: 1: 115 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 73 ft.

2:

Casing Thickness: 1: 0.188 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/1/2001

Driller's Name: DARBYS WELL DRILLING

Aquifer Type: SHALE

Total Depth: 115 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 70 ft.

Drawdown: 2 ft.

Test Rate: 10 gpm

Test Duration: 3 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
SAND & GRAVEL	0	10 -
SAND & CLAY	10	31
SAND & GRAVEL	31	38 -
SAND & CLAY	38	70
LIMESTONE	70	85
SHALE	85	115

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APPENDIX B.
SITE TEST BORING LOGS

LOGO

Bowser-Morner, Inc.

CPT NUMBER 1 (920 Elev)

PAGE 1 OF 3

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/2/2013 COMPLETED 8/5/2013 GROUND ELEVATION _____ Probe ID B-1
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICITION (tsf)	CONE RESISTANCE (tsf)	FRICITION RATIO (%)	INTERPRETED SOIL DESCRIPTION FROM 1 (920 Elev)	DEPTH (feet)
0	0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0	Soil	0
5					5
10					10
15				DOLOMITE - light gray, hard, dense, finely crystalline	15
20				DOLOMITE - light bluish gray, hard, dense, finely crystalline, some shaley interbeds, numerous fractures, trace pyrite	20
25				DOLOMITE/SHALE - light gray, mottled coloration in part, hard to soft, dense to moderately dense, finely crystalline in part, shaley thru most of interval, scattered vertical fractures	25
30					30
35				DOLOMITE - light gray, mottled coloration in part, hard, dense, finely crystalline, shaley 35-37.5, stylonitic, iron stained 41.3-47.6, trace pyrite	35
40					40
45				DOLOMITE - light gray, mottled coloration in part, hard, dense, finely crystalline, stylonitic, limestone interbed 47.8'-51.1', trace pyrite	45
50					50

CPT - GINT STD US LAB.GDT - 10/6/16 09:04 - E:\GINT\PROJECTS\2013\162936 DEMMY SAND & GRAVEL.GPJ

(Continued Next Page)

LOGO

Bowser-Morner, Inc.

CPT NUMBER 1 (920 Elev)

PAGE 2 OF 3

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/2/2013 COMPLETED 8/5/2013 GROUND ELEVATION _____ Probe ID B-1
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICTION (tsf)				CONE RESISTANCE (tsf)				FRICTION RATIO (%)				INTERPRETED SOIL DESCRIPTION FROM 1 (920 Elev)	DEPTH (feet)
	0	0	0	0	0	0	0	0	0	0	0	0		
55													DOLOMITE - same as above, becomes limestone at 59.5'	55
60													LIMESTONE - light pink to pink, mottled coloration, hard, dense, medium to coarsely crystalline, has the appearance of the Brassfield limestone, stylolitic in part, occasional laminations of shale, changes to a pink color at approximately 61', transitional contact from the dolomite to limestone	60
65													LIMESTONE - light pink to cream, hard, dense, finely crystalline in part, marbly appearance in part, stylolitic, vuggy in part with secondary crystallization, dolomitic interbed	65
70													65.8'-67.3', becomes consistently dolomite after 69.3'	70
75													DOLOMITE - light pink to cream, hard, dense, finely crystalline in part, marbly appearance in part, stylolitic, vuggy in part with secondary crystallization	75
80													DOLOMITE (75-80.8) - light gray to light brown, hard, dense, finely crystalline, vuggy in part - vugginess disappears after 79', stylolitic in part	80
85													DOLOMITE (80.8-85.0) - light gray, reddish brown, hard, dense, finely crystalline, shaley in part	85
90													DOLOMITE/SHALE - light gray, hard to moderately hard, dense to moderately dense, finely crystalline, shaley laminations throughout, becomes increasingly shaley towards bottom of run, trace pyrite	90
95													SHALE/DOLOMITE - dark	95
100														100

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(Continued Next Page)

LOGO

Bowser-Morner, Inc.

CPT NUMBER 2 (950 Elev)

PAGE 1 OF 2

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/5/2013 COMPLETED 8/6/2013 GROUND ELEVATION _____ Probe ID B-2
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICTION (tsf)				CONE RESISTANCE (tsf)				FRICTION RATIO (%)				INTERPRETED SOIL DESCRIPTION FROM 2 (950 Elev)	DEPTH (feet)
	0	0	0	0	0	0	0	0	0	0	0	0		
0													SOIL	0
5													DOLOMITE - light gray to light brown, mottled coloration in part, hard, dense, finely to crystalline, some shaley stringers, open fractures, vuggy in part, cherty in part	5
10													DOLOMITE - similar to above, becomes more vuggy after 20', some vugs have secondary dolomite	10
15													DOLOMITE - light - dark gray, hard, dense, finely crystalline, fossiliferous, becomes very dark and shaley at 27.2-33'	15
20													DOLOMITE - light gray to bluish gray, hard, dense, finely crystalline, shaley in part, lightly vuggy in part	20
25													DOLOMITE - light gray to medium gray, hard, dense, finely crystalline, argillaceous in part, trace pyrite, shaley interbeds throughout bottom of run, very soft shale 53.9-55.0	25
30														30
35														35
40														40
45														45
50														50

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LOGO

Bowser-Morner, Inc.

CPT NUMBER 2 (950 Elev)

PAGE 2 OF 2

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/5/2013 COMPLETED 8/6/2013 GROUND ELEVATION _____ Probe ID B-2
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICTION (tsf)	CONE RESISTANCE (tsf)	FRICTION RATIO (%)	INTERPRETED SOIL DESCRIPTION FROM 2 (950 Elev)	DEPTH (feet)
55				DOLOMITE - same as above, becomes limestone at 59.3'	55
60				LIMESTONE - light pink, hard, dense, fine to coarsely crystalline, has the appearance of Brassfield limestone	60
65				LIMESTONE - light gray to light pink, hard, dense, finely crystalline, stylolitic in part, vuggy in part, dolomitic interbed 67.2'-69.2'	65
70					70
75				LIMESTONE - light to reddish pink to yellow, hard, dense, finely crystalline, an occasional shale lense and laminations, stylolitic in part, some iron staining, dolomitic interbed 80'-81', becomes dolomite at 83.2'	75
80					80
85				DOLOMITE - light pink to light gray, hard, dense, finely crystalline, prominently vuggy in sections - some vugs with secondary crystallization - pyrite, occasional shale lamination, stylolitic	85
90					90
95				DOLOMITE/SHALE - light gray to light brown, hard, dense, finely crystalline, some shaley laminations, dolomite down to 99.8', light gray shaley dolomite after 98.8'	95
100					100
105				Bottom of borehole at 105.0 feet.	105

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LOGO

Bowser-Morner, Inc.

CPT NUMBER 3 (975 Elev)

PAGE 1 OF 3

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/6/2013 COMPLETED 8/7/2013 GROUND ELEVATION _____ Probe ID B-3
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICITION (tsf)	CONE RESISTANCE (tsf)	FRICITION RATIO (%)	INTERPRETED SOIL DESCRIPTION FROM 3 (975 Elev)	DEPTH (feet)
0	0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0	SOIL	0
5					5
10					10
15					15
20				WEATHERED ROCK	20
25				DOLOMITE - light gray to light brown, hard, dense, fine to medium crystalline, vuggy throughout, fossiliferous in part	25
30				DOLOMITE - light gray to light brown, hard, dense, fine to medium crystalline, vuggy throughout, fossiliferous in part, cherty in part	30
35				DOLOMITE - light gray to light brown, mottled coloration in part, hard, dense, finely crystalline, stylolitic, cherty in part, iron stained in sections	35
40					40
45					45
50				DOLOMITE - light gray to light brown, mottled coloration in part, hard, dense, finely crystalline, stylolitic, last 6" badly broken	50

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LOGO

Bowser-Morner, Inc.

CPT NUMBER 3 (975 Elev)

PAGE 2 OF 3

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/6/2013 COMPLETED 8/7/2013 GROUND ELEVATION _____ Probe ID B-3
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICITION (tsf)	CONE RESISTANCE (tsf)	FRICITION RATIO (%)	INTERPRETED SOIL DESCRIPTION FROM 3 (975 Elev)	DEPTH (feet)
55	0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0	same as above, badly broken - core jam, trace shale	55
60				SHALE - dark gray dolomitic shale, trace fossils, last 4" solid dolomite	60
65				DOLOMITE - light to dark gray, hard, dense, finely crystalline, scattered shale throughout, stylolitic, trace pyrite	65
70					70
75				DOLOMITE - dark gray to light gray to grayish green, hard to moderately hard, dense to moderately dense, finely crystalline, interbedded shale throughout, glauconitic in part	75
80					80
85				same as above down to 88', becomes more dolomitic - light gray to off white, hard, dense, finely crystalline, mottled coloration in part, vuggy in part, stylolitic	85
90					90
95				DOLOMITE - light gray to off white, mottled coloration in part, hard, dense, finely crystalline, vuggy in part, secondary crystallization - dolomite and pyrite, an occasional shaley interbed, limestone interbed 100.7'-101.6'	95
100					100
105				DOLOMITE - same as above, becomes limestone at 108.6'	105

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LOGO

Bowser-Morner, Inc.

CPT NUMBER 3 (975 Elev)

PAGE 3 OF 3

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/6/2013 COMPLETED 8/7/2013 GROUND ELEVATION _____ Probe ID B-3
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICTION (tsf)				CONE RESISTANCE (tsf)				FRICTION RATIO (%)				INTERPRETED SOIL DESCRIPTION FROM 3 (975 Elev)	DEPTH (feet)
	0	0	0	0	0	0	0	0	0	0	0	0		
110													LIMESTONE - light pink to off white, hard, dense, fine to medium crystalline, stylolitic, small vertical fractures, scattered shaley laminations (continued)	110
115													LIMESTONE - reddish brown to pink, hard, dense, finely crystalline, shaley laminations, vuggy in part, stylolitic, marbly appearance in part, soft crumbly rock at 119.6'-120.6, dolomitic interbeds within the limestone, becomes dolomite at 121.1'	115
120													DOLOMITE - light gray to off white, hard, dense, finely crystalline, very vuggy in part, fossiliferous, trace pyrite becomes more dense at 131.3, iron stained and broken in part last 3'	120
125													DOLOMITE - light bluish gray to light gray, hard, dense, finely crystalline, gradually becomes more shaley down to 139.8' - where changes to predominantly shale	125
130													SHALE - dark gray to black, moderately hard and dense, thin interbeds of dolomite	130
135													SHALE - dark gray, moderately hard and dense with interbeds of hard light gray dolomite	135
140														140
145														145
150														150
155														155

Bottom of borehole at 155.0 feet.

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LOGO

Bowser-Morner, Inc.

CPT NUMBER 4 (960 Elev)

PAGE 1 OF 3

CLIENT Demmy Sand and Gravel

PROJECT NAME Springfield, OH

PROJECT NUMBER 162936

PROJECT LOCATION _____

DATE STARTED 8/7/2013 COMPLETED 8/8/2013

GROUND ELEVATION _____

Probe ID B-4

DRILLING CONTRACTOR _____

NOTES _____

DEPTH (feet)	FRICION (tsf)	CONE RESISTANCE (tsf)	FRICION RATIO (%)	INTERPRETED SOIL DESCRIPTION FROM 4 (960 Elev)	DEPTH (feet)
0	0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0	Tag bedrock at 8.5'	0
5					5
10				DOLOMITE - light gray to bluish gray, hard, dense, finely crystalline, vuggy in part, cherty in part, some iron staining, badly fractured	10
15				same as above - trace chert, badly broken	15
20					20
25				same as above - fossiliferous, badly broken	25
30					30
35				same as above - badly broken	35
40				DOLOMITE - same as above down to 35.3', becomes shale at 35.3'	40
45				SHALE - dark gray, moderately soft and hard and dense, dolomitic interbeds throughout, fossiliferous	45
50				DOLOMITE - dark to light gray, hard, dense, finely crystalline, shaley interbeds and stringers throughout, occasional clay seam, trace pyrite	50

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Bowser-Morner, Inc.

CPT NUMBER 4 (960 Elev)

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/7/2013 COMPLETED 8/8/2013 GROUND ELEVATION _____ Probe ID B-4
 DRILLING CONTRACTOR _____ NOTES _____

DEPTH (feet)	FRICITION (tsf)	CONE RESISTANCE (tsf)	FRICITION RATIO (%)	INTERPRETED SOIL DESCRIPTION FROM 4 (960 Elev)	DEPTH (feet)
55	0 0 0 0	0 0 0 0 0 0 0 0	0 0 0 0	same as above (continued)	55
60					60
65				same as above, becomes limestone at 67.3'	65
70				LIMESTONE - medium gray to light gray to off white, mottled coloration in part, hard, dense, finely crystalline, stylolitic, lightly vuggy, some dolomitic interbeds in the limestone, some shaley interbeds, trace pyrite	70
75				LIMESTONE - coloration changes to light pink at 81.9', mottled coloration in part, hard, dense, finely crystalline, stylolitic, fossiliferous, lightly vuggy in part	75
80					80
85				LIMESTONE - light pink to light gray, mottled coloration in part, hard, dense, finely crystalline, stylolitic, vuggy in part, dolomitic interbed 84.5'-87.3'	85
90					90
95				LIMESTONE - reddish brown to light pink, hard, dense, finely crystalline, shaley in part, stylolitic down to 97.9', small dolomitic interbed 96'-96.9'; becomes dolomite at 98.0'	95
100				DOLOMITE - light gray, hard, dense, finely crystalline, vuggy to very vuggy in part, soft gray shale layer 97.9'-98.3'	100
105					105

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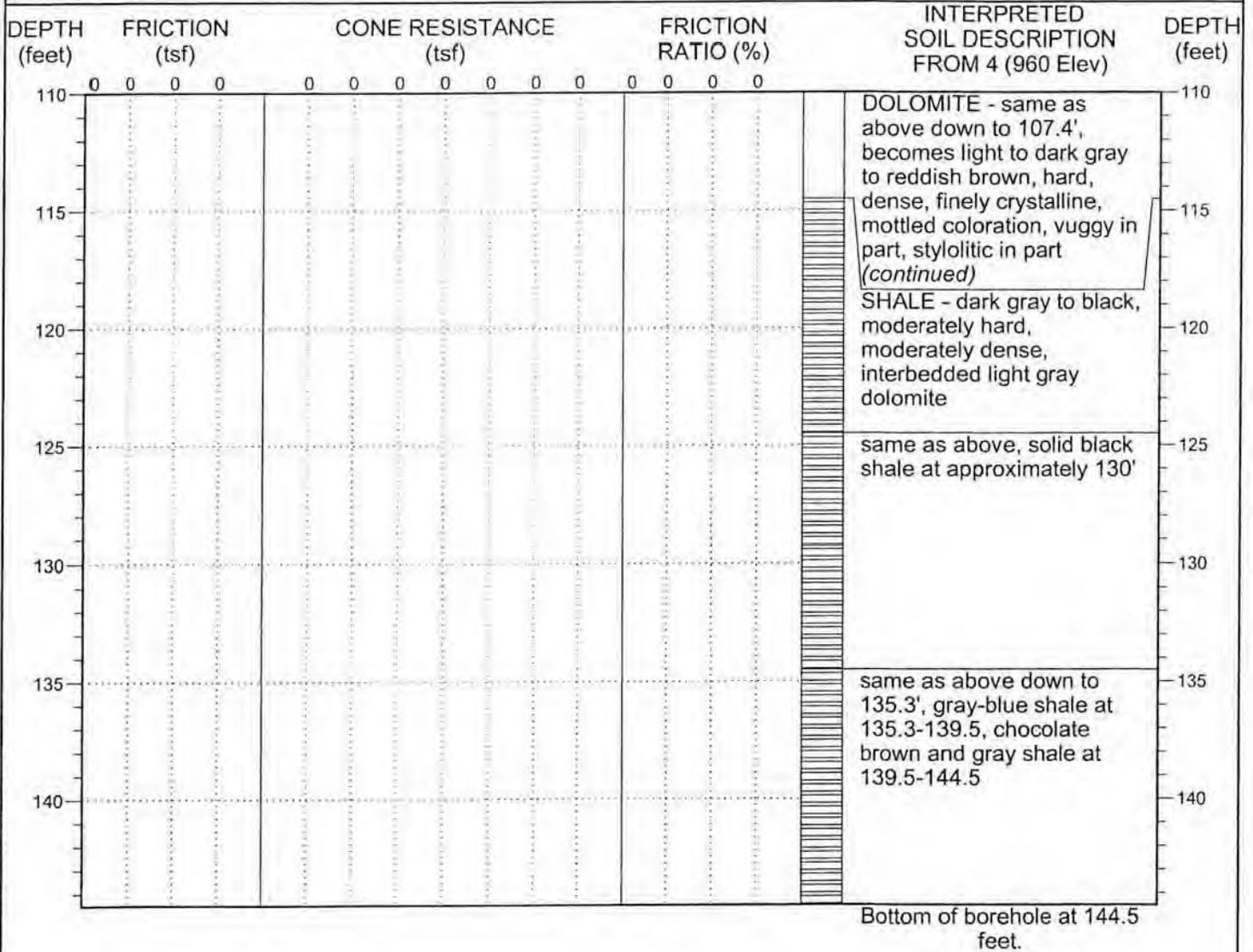
LOGO

Bowser-Morner, Inc.

CPT NUMBER 4 (960 Elev)

PAGE 3 OF 3

CLIENT Demmy Sand and Gravel PROJECT NAME Springfield, OH
 PROJECT NUMBER 162936 PROJECT LOCATION _____
 DATE STARTED 8/7/2013 COMPLETED 8/8/2013 GROUND ELEVATION _____ Probe ID B-4
 DRILLING CONTRACTOR _____ NOTES _____



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APPENDIX C.
COPIES OF ODNR WELL LOGS



Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 32257

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM HUFFMAN

County: CLARK

Township: MADRIVER

Section Number:

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 256

Location Map Year: 1945

Location Area:

Latitude: 39.831752

Longitude: -83.879214

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 44 ft.
2:

Depth to Bedrock:

Casing Diameter: 1:
2:

Casing Length: 1:
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 4/25/1948

Total Depth: 44 ft.

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 36 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 4 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	4
SAND & GRAVEL	4	15
GRAY LIMESTONE	15	35
BLUE LIMESTONE	35	44

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33526

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOSEPH DILLBERRY

County: CLARK

Township: MADRIVER

Section Number: 17

Address: MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 311

Location Map Year: 1945

Location Area:

Latitude: 39.877684

Longitude: -83.880696

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 40 ft.
2:

Depth to Bedrock:

Casing Diameter: 1:
2:

Casing Length: 1:
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/17/1948

Total Depth: 40 ft.

Well Use:

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 10 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	40
WATER AT		40

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33534

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUS DIMITROFF

County: CLARK

Address: SPRINGFIELD-XENIA USRT

City:

Location Number: 296

Latitude: 39.839133

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.8651

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 47 ft.
2:

Depth to Bedrock:

Casing Diameter: 1:
2:

Casing Length: 1:
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 7/31/1948

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 47 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 7 ft.

Drawdown: 6 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
SAND	18	23
CLAY	23	30
LIMESTONE	30	47
WATER AT		47

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33546

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CLARENCE GRUBE

County: CLARK

Township: MADRIVER

Section Number: 19

Address: TECUMSEH RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 20

Location Map Year: 1966

Location Area:

Latitude: 39.875207

Longitude: -83.891424

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 49 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.19 in.

Casing Length: 1: 37 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 9/18/1948

Total Depth: 49 ft.

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 19 ft.

Test Rate: 8 gpm

[Associated Reports](#)

Drawdown: 7 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	20
SAND	20	37
LIMESTONE	37	49

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 44454

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHARLES MCQUAY

County: CLARK

Township: GREEN

Section Number: 11

Address: CATAWBA RIDGE RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 633

Location Map Year: 1945

Location Area:

Latitude: 39.846782

Longitude: -83.861882

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 61 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.
2:

Casing Length: 1: 30 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE & ROCK

Date of Completion: 10/1/1949

Total Depth: 61 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 3 ft.

Test Duration: 3 hrs.

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	30
LIMESTONE & ROCK	30	61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 48693

ORIGINAL OWNER AND LOCATION

Original Owner Name: G DIMITROFF
 County: CLARK
 Address: SPRINGFIELD-XENIA USRT
 City:
 Location Number: 494
 Latitude: 39.838264

Township: MADRIVER
 State: OH
 Location Map Year: 1945
 Longitude: -83.865324

Section Number: 16
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 45 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 27 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 8/22/1949	Total Depth: 45 ft.	Screen Length:
Driller's Name:	Slot Size:	
Screen Diameter:	Material:	
Type:		
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 5 ft.	Test Rate: 10 gpm	<u>Associated Reports</u>
Drawdown: 12 ft.	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	27
LIMESTONE	27	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 58217

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RALPH HOWELL

County: CLARK

Township: MADRIVER

Section Number:

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 546

Location Map Year: 1945

Location Area:

Latitude: 39.856246

Longitude: -83.873859

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 36 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 16 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 1/19/1951

Total Depth: 36 ft.

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 4 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	5
SANDY GRAVEL	5	16
GRAY LIMESTONE	16	36

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63761

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HENSON

County: CLARK

Address: FAIRFIELD PIKE

City:

Location Number: 998

Latitude: 39.862695

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.87166

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 39 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.

2:

Casing Length: 1: 17 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/10/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 39 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 2 ft.

Drawdown: 24 ft.

Test Rate: 6 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	39
WATER AT		39

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63771

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KYLE GERHARDT
 County: CLARK
 Address: MILL RD
 City:
 Location Number: 590
 Latitude: 39.875068

Township: MADRIVER
 State: OH
 Location Map Year: 1945
 Longitude: -83.879518

Section Number: 13
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 64 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 4.25 in.	Casing Length: 1: 21 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 4/20/1951	Total Depth: 64 ft.	
Driller's Name:	Slot Size:	Screen Length:
Screen Diameter:	Material:	
Type:		
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 12 ft.	Test Rate: 7 gpm	<u>Associated Reports</u>
Drawdown: 30 ft.	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
LIMESTONE	8	64

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63773

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RHORNELL

County: CLARK

Address: CATAWBA RIDGE RD

City:

Location Number: 592

Latitude: 39.842005

Township: GREEN

State: OH

Location Map Year: 1945

Longitude: -83.862911

Section Number: 11

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 56 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 23 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 4/26/1950

Driller's Name:

Aquifer Type: LIMESTONE
 Total Depth: 56 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown:

Test Rate: 15 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	23
LIMESTONE	23	56
WATER AT		56

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63784

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: J BURLISLE

County: CLARK

Address: JACKSON RD

City:

Location Number: 604

Latitude: 39.832718

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.870732

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 58 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 38 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 7/11/1950

Driller's Name:

Aquifer Type: LIMESTONE
Total Depth: 58 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
Material:

Screen Length:

Vol/Wt Used:
Placed:
Vol/Wt Used:
Placed

WELL TEST DETAILS

Static Water Level: 11 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm
Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	21
SAND & CLAY	21	38
LIMESTONE	38	58
WATER AT		58

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63786

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: R MILLER

County: CLARK

Address: SNYDERVILLE RD

City:

Location Number: 606

Latitude: 39.876479

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.893633

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 93 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.
2:

Casing Length: 1: 93 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 7/1/1950

Driller's Name:

Aquifer Type: SAND

Total Depth: 93 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 16 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
OLD WELL	0	40
CLAY	40	82
SAND	82	93
WATER AT		93

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63787

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ORIGINAL OWNER AND LOCATION

Original Owner Name: J KEIFER

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 607

Latitude: 39.844926

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.88918

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 74 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 62 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/28/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 74 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown: 15 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL	0	10
SAND	10	40
CLAY	40	62
LIMESTONE	62	74
WATER AT		74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63792

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ORIGINAL OWNER AND LOCATION

Original Owner Name: DON WEST

County: CLARK

Address: SNYDERVILLE RD

City:

Location Number: 1044

Latitude: 39.872128

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.879744

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 78 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 19 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/1/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 78 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 13 ft.

Drawdown: 15 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	1
LIMESTONE	1	52
SHALE	52	70
LIMESTONE	70	78
WATER AT		78

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 65518

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ORIGINAL OWNER AND LOCATION

Original Owner Name: HARRY BREWER

County: CLARK

Township: MADRIVER

Section Number:

Address: SNYDERVILLE RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 478

Location Map Year: 1945

Location Area:

Latitude: 39.870612

Longitude: -83.917656

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 86 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 86 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 11/12/1949

Total Depth: 86 ft.

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Test Rate: 11 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	6
COARSE SAND & ROCK	6	18
FINE SAND	18	48
HARDPAN	48	54
MIXED SAND	54	57
WHITE LIMESTONE	57	86

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 86161

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM STREULING

County: CLARK

Township: MADRIVER

Section Number: 13

Address: MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 1043

Location Map Year: 1945

Location Area:

Latitude: 39.872363

Longitude: -83.878384

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 103 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 2/1/1951

Total Depth: 103 ft.

Driller's Name:

Screen Length:

Screen Diameter:

Slot Size:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 14 ft.

Test Rate: 4 gpm

Associated Reports

Drawdown: 80 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	52
SHALE	52	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 86199

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ORIGINAL OWNER AND LOCATION

Original Owner Name: HENRY IHRIG

County: CLARK

Address: MILL RD

City:

Location Number: 962

Latitude: 39.876295

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.879542

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 67 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.
2:

Casing Length: 1: 18 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 7/1/1951

Driller's Name:

Aquifer Type: SHALE
 Total Depth: 67 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 14 ft.

Drawdown: 22 ft.

Test Rate: 10 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
LIMESTONE	16	52
SHALE	52	67

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 87754

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ORIGINAL OWNER AND LOCATION

Original Owner Name: C MAST

County: CLARK

Township: MADRIVER

Section Number: 19

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 769

Location Map Year: 1945

Location Area:

Latitude: 39.872107

Longitude: -83.888941

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 50 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.
2:

Casing Length: 1: 31 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 9/1/1950

Total Depth: 50 ft.

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 6 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	18
SAND & GRAVEL	18	22
SAND & CLAY	22	30
LIMESTONE	30	50
WATER AT		50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 87755

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ORIGINAL OWNER AND LOCATION

Original Owner Name: A MCCOUN

County: CLARK

Address: JACKSON RD

City:

Location Number: 770

Latitude: 39.840243

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.865363

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 50 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 42 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion:

Total Depth: 50 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 350 gpm

[Associated Reports](#)

Drawdown: 6 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
SAND	15	21
BLUE CLAY	21	40
SAND & GRAVEL	40	42
LIMESTONE	42	50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 87811

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRISTOPHER ROBERTS

County: CLARK

Township: MADRIVER

Section Number: 13

Address: OLD MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 815

Location Map Year: 1945

Location Area:

Latitude: 39.871486

Longitude: -83.878424

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 65 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 10 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 11/1/1951

Total Depth: 65 ft.

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 3 gpm

[Associated Reports](#)

Drawdown: 30 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	65
BLUE SHALE	65	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 100170

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: W EVANS

County: CLARK

Address: OLD MILL RD

City:

Location Number: 6

Latitude: 39.869358

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.879456

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 120 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.
2:

Casing Length: 1: 52 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion:

Total Depth: 120 ft.

Well Use:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 90 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
LIMESTONE	0	52
SHALE	52	86
LIMESTONE	86	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 100180

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: L VALLEY

County: CLARK

Address: REBERT PI

City:

Location Number: 23

Latitude: 39.873671

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.887192

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 45 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 21 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion:

Total Depth: 45 ft.

Well Use:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 19 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 9 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	21
LIMESTONE	21	45
WATER AT		45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 109446

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN KING

County: CLARK

Address: FOWLER RD

City:

Location Number: 131

Latitude: 39.869044

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917833

Section Number: 30

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 95 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1:
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion: 10/24/1953

Total Depth: 95 ft.

Well Use:

Driller's Name: LOTTS A E & SON

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	10
GRAVEL	10	30
SANDY LOAM	30	45
SHALE	45	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 127199

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: REX MILLER

County: CLARK

Address: FAIRFIELD PIKE RD

City:

Location Number: 178

Latitude: 39.846189

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.90404

Section Number: 29

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 78 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 11/17/1954

Total Depth: 78 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Test Rate: 6 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
LIMESTONE	3	54
SHALE	54	66
PINK LIMESTONE	66	78

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 127325

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN CRISPIN
 County: CLARK
 Address: REBERT PI
 City:
 Location Number: 26
 Latitude: 39.877445

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.881893

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 48 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 22 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion:	Total Depth: 48 ft.	
Driller's Name: DRILLER UNKNOWN		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 13 ft. Test Rate: 10 gpm
 Drawdown: 25 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	20
LIMESTONE	20	48
WATER AT		48

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 127346

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: L VALLEY

County: CLARK

Address: REBERT PI

City:

Location Number: 24

Latitude: 39.870780

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.892055

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 61 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion:

Total Depth: 61 ft.

Well Use:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 19 ft.

Test Rate: 8 gpm

Drawdown: 25 ft.

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	25
UNKNOWN	0	31
LIMESTONE	31	61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 131075

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: D RUEGER

County: CLARK

Address: OLD MILL RD

City:

Location Number: 7

Latitude: 39.870564

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.880328

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 129 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 19 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 129 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 99 ft.

Drawdown: 5 ft.

Test Rate: 10 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	52
GRAY SHALE	52	65
LIMESTONE	65	80
RED LIMESTONE	80	110
WHITE LIMESTONE	110	129

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 137376

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ENON HIGH SCHOOL

County: CLARK

Township: MADRIVER

Section Number: 24

Address: TECUMSEH RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 136

Location Map Year: 1980

Location Area:

Latitude: 39.870253

Longitude: -83.891741

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 163 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 8 in.
2:

Casing Length: 1: 32 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 11/20/1954

Total Depth: 163 ft.

Well Use:

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 44 ft.

Test Rate: 130 gpm

[Associated Reports](#)

Drawdown: 33 ft.

Test Duration: 5 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
UNKNOWN	0	21
GRAVEL & CLAY	21	28
BROWN LIMESTONE	28	85
GRAY LIMESTONE	85	102
GRAY SOFT LIMESTONE	102	118
GRAY HARD LIMESTONE	118	163

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 139481

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ALBERT HAVIK

County: CLARK

Address: REBERT PI

City:

Location Number: 31

Latitude: 39.876436

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.88441

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 34 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 21 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 6/30/1958

Driller's Name: DRILLER UNKNOWN

Aquifer Type: LIMESTONE & ROCK

Total Depth: 34 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown: 20 ft.

Test Rate: 8 gpm

Test Duration: 0.5 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	5
RED SAND & CLAY	5	15
SAND	15	21
LIMESTONE & ROCK	21	34
WATER AT		34

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 139482

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ALBERT HAVIK

County: CLARK

Township: MADRIVER

Section Number:

Address: REBERT PI

Lot Number:

City:

State: OH

Zip Code:

Location Number: 31.02

Location Map Year: 1966

Location Area:

Latitude: 39.876436

Longitude: -83.88441

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 35 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 21 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE & ROCK

Well Use:

Date of Completion: 6/30/1958

Total Depth: 35 ft.

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Test Rate: 8 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 0.5 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	5
RED CLAY	5	10
SAND	10	15
LIMESTONE & ROCK	15	21
UNKNOWN	0	40
WATER AT		35

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 139490

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GAYLORD BARNHEART

County: CLARK

Township: MADRIVER

Section Number: 23

Address: GORDON HILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 180

Location Map Year: 1980

Location Area:

Latitude: 39.853831

Longitude: -83.887569

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 119 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 110 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: ROCK

Date of Completion: 4/18/1959

Total Depth: 119 ft.

Well Use:

Driller's Name: MILLER GLENN CONSULTING GEOLOGIST

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
SAND & GRAVEL	3	25
HARDPAN	25	110
LIMESTONE	110	119
ROCK	119	119
WATER AT		119

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 150507

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GEORGE WALTERS

County: CLARK

Township: MADRIVER

Section Number: 23

Address: FAIRFIELD PIKE RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 182

Location Map Year: 1980

Location Area:

Latitude: 39.853069

Longitude: -83.886339

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 108 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 103 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion:

Total Depth: 108 ft.

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 78 ft.

Test Rate: 12 gpm

Associated Reports

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
SOIL	0	5
CLAY	5	11
GRAVEL	11	21
HARDPAN	21	51
GRAVEL	51	57
HARDPAN	57	61
GRAVEL	61	68
HARDPAN	68	94
UNKNOWN	0	97
GRAVEL	97	103
LIMESTONE	103	108

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 150543

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WOODROW DEMMY
 County: CLARK
 Address: FAIRFIELD PIKE RD
 City:
 Location Number: 179
 Latitude: 39.849962

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.899257

Section Number: 23
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 49 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1:	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion:	Total Depth: 49 ft.	
Driller's Name:	Slot Size:	Screen Length:
Screen Diameter:	Material:	
Type:		
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 8 ft.	Test Rate: 20 gpm	<u>Associated Reports</u>
Drawdown: 8 ft.	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
HARDPAN	0	24
LIMESTONE	24	49
UNKNOWN	0	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 150548

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN CRISPIN
 County: CLARK
 Address: TECUMSEH RD
 City:
 Location Number: 18
 Latitude: 39.864501

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.890589

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 74 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 21 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion:	Total Depth: 74 ft.	
Driller's Name: DRILLER UNKNOWN		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 54 ft. Test Rate: 12 gpm
 Drawdown: Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
SAND	14	18
CLAY	18	20
UNKNOWN	0	52
LIMESTONE	52	52
SHALE & SANDSTONE	52	68
LIMESTONE	68	74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 174168

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES CORNELIUS

County: CLARK

Address: FAIRFIELD PIKE PI

City:

Location Number: 156

Latitude: 39.862713

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.871325

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 44 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 19 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 44 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 6 ft.

Drawdown: 14 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
LIMESTONE	14	44

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 174189

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROCKY POINT CHURCH

County: CLARK

Township: MADRIVER

Section Number: 13

Address: OLD MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 4

Location Map Year: 1966

Location Area:

Latitude: 39.871220

Longitude: -83.879168

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 130 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 22 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion:

Total Depth: 130 ft.

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 103 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	57
SHALE	57	83
LIMESTONE	83	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 204026

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: H HUFMAN

County: CLARK

Township: MADRIVER

Section Number: 29

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 173

Location Map Year: 1980

Location Area:

Latitude: 39.848138

Longitude: -83.919841

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 65 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 65 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SAND

Well Use:

Date of Completion: 6/29/1959

Total Depth: 65 ft.

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 9 gpm

[Associated Reports](#)

Drawdown: 25 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	8
GRAVEL	8	37
SAND	37	45
HARDPAN	45	62
HEAVY SAND	62	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 204027

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBT MCCLURE
 County: CLARK
 Address: HAGEN/REBERT RD
 City:
 Location Number: 132
 Latitude: 39.862614

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.908162

Section Number: 30
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 62 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 20 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 7/8/1959	Total Depth: 62 ft.	

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 30 ft. Test Rate: 7 gpm
 Drawdown: 20 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	6
GRAVEL & CLAY	6	15
SOFT ROCK	15	17
LIMESTONE	17	30
SHALE	30	55
LIMESTONE	55	55
WHITE LIMESTONE	55	62
WATER AT		30
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 246567

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ELMER JORDON
 County: CLARK
 Address: OLD MILL RD
 City:
 Location Number: 124
 Latitude: 39.880325

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.878935

Section Number: 13
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 53 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 18 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion:	Total Depth: 53 ft.	
Driller's Name: CRABTREE WELL AND PUMP		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 18 ft. Test Rate: 6 gpm
 Drawdown: 10 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	53

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 257613

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TED BOLE

County: CLARK

Address: HUSTEAD RD

City:

Location Number: 190

Latitude: 39.840293

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.869615

Section Number: 17

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 38 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 39 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 11/15/1961

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SAND

Total Depth: 38 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown: 18 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	9
SAND	9	15
BLUE CLAY	15	18
SAND	18	35
COARSE SAND	35	38

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 257636

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: NORMAN REINDAHL

County: CLARK

Township: MADRIVER

Section Number:

Address: REBERT PI

Lot Number:

City:

State: OH

Zip Code:

Location Number: 17

Location Map Year: 1966

Location Area:

Latitude: 39.866501

Longitude: -83.8986

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 58 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 23 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 6/29/1963

Total Depth: 58 ft.

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 25 ft.

Test Duration: 4 hrs.

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	10
GRAVEL	10	14
BLUE CLAY	14	21
LIMESTONE	21	58
WATER AT		57

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 271726

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MAD RIVER-GREEN LOCA

County: CLARK

Township: MADRIVER

Section Number: 23

Address: HUSTED RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.841917

Longitude: -83.885323

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 171 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 8 in.
2:

Casing Length: 1: 32 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 12/30/1990

Total Depth: 171 ft.

Well Use: PUBLIC/SEMI-PUB

Driller's Name: SPROWLS DRILLING CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 130 ft.

Test Rate: 500 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	32
LIMESTONE	32	100
SHALE	100	120
WHITE LIMESTONE	120	135
SHALE	135	137
WHITE LIMESTONE	137	170
WATER AT		170

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 273518

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MARVIN BLOSSER
 County: CLARK
 Address: TECUMSEH RD S
 City:
 Location Number: 29
 Latitude: 39.863089

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.889303

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 104 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
 2:

Casing Length: 1: 17 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:
 Date of Completion: 1/31/1962
 Driller's Name: LOWER EDWARD H

Aquifer Type: LIMESTONE
 Total Depth: 104 ft.

Well Use:

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 87 ft.
 Drawdown:

Test Rate: 16 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	10
SAND & GRAVEL	10	15
HARDPAN	15	17
LIMESTONE	17	104

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 273523

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: OTHEL WORKMAN
 County: CLARK
 Address: JACKSON RD
 City:
 Location Number: 219
 Latitude: 39.831885

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.881836

Section Number: 16
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 48 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 23 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: CREVICE	Well Use:
Date of Completion: 4/20/1962	Total Depth: 48 ft.	
Driller's Name: LOWER WELL DRILLING CO.		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 10 ft. Test Rate: 24 gpm
 Drawdown: Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	6
GRAVEL & CLAY	6	16
HARDPAN	16	23
WHITE LIMESTONE	23	48
BROWN CREVICE	48	49

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 309338

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SAYER JENKINS
 County: CLARK
 Address: TECUMSEH RD
 City:
 Location Number: 11
 Latitude: 39.858604

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.895684

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 75 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 10 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 10/10/1974	Total Depth: 75 ft.	
Driller's Name: RUBY, STAN WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 26 ft. Test Rate: 15 gpm
 Drawdown: 15 ft. Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	75
WATER AT		75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 311305

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PILATE FYFFE

County: CLARK

Address: REBERT PI

City:

Location Number: 116

Latitude: 39.874756

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.887352

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 41 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 34 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 3/21/1964

Driller's Name: RUBY, STAN WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 41 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 16 ft.

Drawdown:

Test Rate: 20 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
CLAY & GRAVEL	6	16
HARDPAN	16	24
RED SAND	24	32
HARDPAN	32	34
WHITE LIMESTONE	34	41

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 311342

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ORIGINAL OWNER AND LOCATION

Original Owner Name: MOSES DAVIS

County: CLARK

Address: 3343 JACKSON RD

City:

Location Number: 217

Latitude: 39.828803

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.880122

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 30 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 27 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 1/8/1965

Driller's Name: RUBY, STAN WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 30 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

Test Rate: 40 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	10
GRAVEL & CLAY	10	20
SAND & GRAVEL	20	27
BROWN LIMESTONE	27	30
GRAY LIMESTONE	30	31

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 326110

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TED BOLE

County: CLARK

Address: HUSTEAD RD

City:

Location Number: 190

Latitude: 39.840293

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.869615

Section Number: 17

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 33 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 35 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SAND

Date of Completion: 5/2/1969

Total Depth: 33 ft.

Well Use:

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 0.5 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	10
GRAVEL & CLAY	10	20
SAND	20	24
BLUE CLAY	24	30
COARSE SAND	30	33

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 329195

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE GORMAN

County: CLARK

Address: ENON CROSS RD

City:

Location Number: 13

Latitude: 39.868606

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.869379

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 69 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 14 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 11/30/1965

Total Depth: 69 ft.

Well Use:

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 35 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
LIMESTONE	14	69
WATER AT		69

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 329200

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EMERSON KING
 County: CLARK
 Address: OLD MILL RD
 City:
 Location Number: 5
 Latitude: 39.864477

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.881293

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 74 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 10 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 1/22/1966	Total Depth: 74 ft.	
Driller's Name: RUBY, STAN WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 30 ft. Test Rate: 20 gpm
 Drawdown: 10 ft. Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	74
WATER AT		74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 335405

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT BOYSEL

County: CLARK

Township: MADRIVER

Section Number: 15

Address: 1615 RIDGEWAY

Lot Number:

City:

State: OH

Zip Code:

Location Number: 11

Location Map Year: 1980

Location Area:

Latitude: 39.877280

Longitude: -83.893959

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 113 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 78 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/4/1965

Total Depth: 113 ft.

Well Use:

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 78.5 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	20
GRAVEL	20	30
GRAY HARDPAN	30	70
FINE SAND	70	78
BROWN LIMESTONE	78	103
WHITE LIMESTONE	103	113
WATER AT		113

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 337535

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM FLORA

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 19

Latitude: 39.863771

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.891775

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 110 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 110 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 57 ft.

Drawdown:

Test Rate: 17 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	18
LIMESTONE	18	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 349219

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WL MOWERY

County: CLARK

Address: HUSTEAD RD

City:

Location Number: 189

Latitude: 39.840990

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.87178

Section Number: 17

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 89 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 40 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 7/18/1966

Driller's Name: RUBY, STAN WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 89 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 16 ft.

Drawdown: 20 ft.

Test Rate: 20 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	40
LIMESTONE	40	89
WATER AT		89

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 357076

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT JESSUP
 County: CLARK
 Address: ROCKY POINT RD
 City:
 Location Number: 10
 Latitude: 39.868817

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.885099

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 62 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 7/27/1967	Total Depth: 62 ft.	

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 26 ft. Test Rate: 9 gpm
 Drawdown: 5 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
LIMESTONE	8	62
WATER AT		62

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 357081

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT JESSUP
 County: CLARK
 Address: ROCKY POINT RD
 City:
 Location Number: 10
 Latitude: 39.868817

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.885099

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 61 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 8/24/1967	Total Depth: 61 ft.	

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 24 ft. Test Rate: 8 gpm
 Drawdown: Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	61
WATER AT		61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 357306

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES SPITLOR
 County: CLARK
 Address: 3716 SNYDERVILLE RD
 City:
 Location Number: 102
 Latitude: 39.873643

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.91749

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 50 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: ROCK	Well Use:
Date of Completion: 11/16/1966	Total Depth: 50 ft.	
Driller's Name: RUBY, STAN WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft. Test Rate: 8 gpm
 Drawdown: Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
GRAVEL	3	19
BLUE CLAY	19	26
BLUE SHALE	26	48
GRAY ROCK	48	50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 360938

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL PHILEPPS
 County: CLARK
 Address: 4667 BROADWAY RD
 City:
 Location Number: 100
 Latitude: 39.876612

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.902335

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 105 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 56 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 5/9/1970	Total Depth: 105 ft.	
Driller's Name: RUBY, STAN WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 35 ft.	Test Rate: 60 gpm	<u>Associated Reports</u>
Drawdown: 30 ft.	Test Duration:	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	35
HARDPAN	35	56
LIMESTONE	56	105
WATER AT		105

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 360945

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ORIGINAL OWNER AND LOCATION

Original Owner Name: RANDALL SINK
 County: CLARK
 Address: 3559 TECUMSEH RD S
 City:
 Location Number: 114
 Latitude: 39.873653

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.891428

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 45 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 40 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 11/30/1970	Total Depth: 45 ft.	
Driller's Name: RUBY, STAN WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 17 ft. Test Rate: 30 gpm
 Drawdown: 10 ft. Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	32
SAND	32	36
CLAY	36	40
LIMESTONE	40	45
WATER AT		45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 373469

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LAYFORD GULLEY

County: CLARK

Address: 3130 FAIRFIELD PIKE PI

City:

Location Number: 155

Latitude: 39.862238

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.873671

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 63 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 4/26/1969

Driller's Name: HICKMAN CHARLES

Aquifer Type: LIMESTONE

Total Depth: 63 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
GRAVEL	11	15
LIMESTONE	15	63

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 376688

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ORIGINAL OWNER AND LOCATION

Original Owner Name: KERMITH ROBINETTE

County: CLARK

Township: MADRIVER

Address: 3775 ROCKY POINT RD

City:

State: OH

Location Number: 27

Location Map Year: 1966

Latitude: 39.869470

Longitude: -83.885789

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 45 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 11 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/18/1968

Total Depth: 45 ft.

Well Use:

Driller's Name: LOWER EDWARD H

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
LIMESTONE	9	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 377821

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SAM LEWIS

County: CLARK

Township: MADRIVER

Section Number: 29

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 177

Location Map Year: 1980

Location Area:

Latitude: 39.847944

Longitude: -83.907028

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 26 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: GRAVEL

Well Use:

Date of Completion: 7/1/1968

Total Depth: 26 ft.

Driller's Name: LOTTS A E & SON

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 6 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	4
YELLOW CLAY	4	14
BLUE CLAY	14	19
YELLOW GRAVEL	19	26
WATER AT		26

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 378881

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EDWARD HART
 County: CLARK
 Address: 3950 OLD MILL RD
 City:
 Location Number: 231
 Latitude: 39.870185

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.876874

Section Number: 13
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 115 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 20 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: SHALE	Well Use:
Date of Completion: 8/28/1968	Total Depth: 115 ft.	
Driller's Name: BRENNER WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 45 ft. Test Rate: 5 gpm
 Drawdown: 110 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	10
WHITE STONE	10	55
MUD	55	56
WHITE STONE	56	65
SHALE	65	66
STONE	66	70
SHALE	70	90
SHALE	90	115
WHITE STONE	115	115

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 405312

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN FREY

County: CLARK

Address: 4740 OLD MILL RD

City:

Location Number: 21

Latitude: 39.859040

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.879675

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 113 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 5/28/1970

Driller's Name: FYFFE T J

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE & SHALE

Total Depth: 113 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 70 ft.

Drawdown:

Test Rate: 7 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	12
LIMESTONE	12	104
LIMESTONE & SHALE	104	113
SULPHERY WATER AT		94

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 405316

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN LUCAS
 County: CLARK
 Address: REBERT PI
 City:
 Location Number: 132
 Latitude: 39.862614

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.908162

Section Number: 30
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 65 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 14 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 6/15/1970	Total Depth: 65 ft.	
Driller's Name: FYFFE T J		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 22 ft. Test Rate: 20 gpm
 Drawdown: Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	7
LIMESTONE	7	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 405343

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GERALD MILAN
 County: CLARK
 Address: TECUMSEH RD S
 City:
 Location Number: 149
 Latitude: 39.862785

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.88944

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 106 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 10/12/1970	Total Depth: 106 ft.	
Driller's Name: FYFFE T J		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 45 ft. Test Rate: 2 gpm
 Drawdown: Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	16
LIMESTONE	16	17
RED CLAY	17	25
LIMESTONE	25	70
BROKEN LIMESTONE	70	106
BROKEN SHELL	106	106

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 412895

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES CASTLE
 County: CLARK
 Address: REBERT PI
 City:
 Location Number: 30
 Latitude: 39.867171

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.898318

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 54 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 22 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion:	Total Depth: 54 ft.	Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 17 ft. Test Rate: 8 gpm
 Drawdown: 15 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	22
LIMESTONE	22	54

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 421870

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address:

City:

Location Number: 176

Latitude: 39.849290

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917436

Section Number: 29

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 89 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 89 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: GRAVEL

Date of Completion: 9/30/1971

Total Depth: 89 ft.

Well Use:

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
GRAVEL	18	41
CLAY	41	57
SAND	57	63
CLAY	63	76
GRAVEL	76	89

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 421898

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 138

Latitude: 39.869467

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.889299

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 45 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 29 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 1/10/1972

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 45 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

Test Rate: 25 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
GRAVEL	14	23
CLAY	23	29
LIMESTONE	29	41
SHALE	41	43
LIMESTONE	43	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 425952

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MILLARD PERKINS

County: CLARK

Township: MADRIVER

Section Number: 13

Address: OLD MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 123

Location Map Year: 1980

Location Area:

Latitude: 39.870754

Longitude: -83.878885

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 82 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion:

Total Depth: 82 ft.

Driller's Name: FYFFE T J

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	11
LIMESTONE	11	65
BLUE SHALE	65	75
LIMESTONE	75	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 425984

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM WRIGHT
 County: CLARK
 Address: 3117 ROCKY POINT RD
 City:
 Location Number: 153
 Latitude: 39.868690

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.870691

Section Number: 18
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 50 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 6/8/1972	Total Depth: 50 ft.	
Driller's Name: FYFFE T J		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 9 ft. Test Rate: 20 gpm
 Drawdown: Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	12
LIMESTONE	12	50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433701

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: MILL RD
 City:
 Location Number: 120
 Latitude: 39.878173

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.880692

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 118 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 4/13/1971	Total Depth: 118 ft.	Well Use:
Driller's Name: LOWER WELL DRILLING CO.		
Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 60 ft. Test Rate: 10 gpm
 Drawdown: 40 ft. Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	25
LIMESTONE	25	118
WATER AT		118

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433709

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RODGER ARLEDGE

County: CLARK

Township: MADRIVER

Section Number: 18

Address: 3225 ROCKY POINT RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year: 1966

Location Area:

Latitude: 39.868740

Longitude: -83.8731

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 82 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 22 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/30/1971

Total Depth: 82 ft.

Well Use:

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 30 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	82
WATER AT		72

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433712

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: TECUMSEH RD
 City:
 Location Number: 186
 Latitude: 39.841303

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.890614

Section Number: 23
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 82 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 30 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 7/19/1971	Total Depth: 82 ft.	Well Use:
Driller's Name: LOWER WELL DRILLING CO.		

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 30 ft.	Test Rate: 10 gpm	Associated Reports
Drawdown: 40 ft.	Test Duration:	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	30
LIMESTONE	30	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433719

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: TECUMSEH RD
 City:
 Location Number: 110
 Latitude: 39.879589

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.896568

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 95 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 35 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 9/13/1971	Total Depth: 95 ft.	Well Use:
Driller's Name: LOWER WELL DRILLING CO.		

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft.	Test Rate: 12 gpm	Associated Reports
Drawdown: 50 ft.	Test Duration:	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	35
LIMESTONE	35	95
WATER AT		95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433722

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RODGER ARLEDGE

County: CLARK

Township: MADRIVER

Section Number: 18

Address: 3225 ROCKY POINT RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year: 1966

Location Area:

Latitude: 39.868740

Longitude: -83.8731

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 82 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 22 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 10/18/1971

Total Depth: 82 ft.

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 22 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 50 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433746

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LON PARKS

County: CLARK

Address: 3381 HUSTEAD RD

City:

Location Number: 216

Latitude: 39.839739

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.880774

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 118 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 42 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 7/28/1972

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE
 Total Depth: 118 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 60 ft.

Test Rate: 20 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	42
LIMESTONE	42	118
WATER AT		118

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 434217

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address:

City:

Location Number: 175

Latitude: 39.849388

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.918164

Section Number: 29

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 75 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
 2:

Casing Length: 1: 75 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: GRAVEL

Date of Completion: 2/22/1972

Total Depth: 75 ft.

Well Use:

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	20
GRAVEL	20	40
CLAY	40	54
GRAVEL	54	69
CLAY	69	72
GRAVEL	72	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 434218

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIEGHT
 County: CLARK
 Address: 2905 TECUMSEH RD
 City:
 Location Number: 108
 Latitude: 39.883247

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.899197

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 55 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 39 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 2/22/1972	Total Depth: 55 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft.	Test Rate: 15 gpm	<u>Associated Reports</u>
Drawdown:	Test Duration: 0.8 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
GRAVEL	6	16
CLAY	16	31
GRAVEL	31	35
CLAY	35	39
LIMESTONE	39	55

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 443486

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOM HENRY
 County: CLARK
 Address: 3643 OLD MILL RD
 City:
 Location Number: 121
 Latitude: 39.874088

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.881395

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 75 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 24 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 6/1/1915	Total Depth: 75 ft.	
Driller's Name:	Slot Size:	Screen Length:
Screen Diameter:	Material:	
Type:		
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 14 ft. Test Rate: 15 gpm
 Drawdown: 5 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	5
GRAVEL & CLAY	5	9
WHITE LIMESTONE	9	58
YELLOW LIMESTONE	58	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443788

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CARL PETTIT

County: CLARK

Address: WESTCLIFF CT

City:

Location Number: 141

Latitude: 39.868688

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.886177

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 80 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 3/26/1973

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE
 Total Depth: 80 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	17
GRAY LIMESTONE	17	69
SHALE	69	76
GRAY LIMESTONE	76	80
WATER AT		30
WATER AT		80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443790

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEPHEN KOOB
 County: CLARK
 Address: 4430 TECUMSEH RD
 City:
 Location Number: 146
 Latitude: 39.864047

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.885161

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 135 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 34 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:
 Date of Completion: 3/20/1973
 Driller's Name: OTHER

Aquifer Type: SHALE & SANDSTONE
 Total Depth: 135 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 25 ft.
 Drawdown: 60 ft.

Test Rate: 8 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	32
LIMESTONE	32	71
SHALE	71	82
SHALE & SANDSTONE	82	135
WATER AT	38	38
WATER AT	130	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443792

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 3195 TECUMSEH RD S
 City:
 Location Number: 109
 Latitude: 39.879952

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.896917

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 60 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 56 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 3/26/1973	Total Depth: 60 ft.	

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 18 ft. Test Rate: 10 gpm
 Drawdown: 3 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
GRAY CLAY	18	22
FINE GRAVEL & SAND	22	27
GRAY CLAY	27	53
GRAVEL & SAND	53	55
LIMESTONE	55	60
WATER AT		55
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443797

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: R WADE

County: CLARK

Address: 4536 HAMPTON RD

City:

Location Number: 61

Latitude: 39.996772

Township: PIKE

State: OH

Location Map Year: 1980

Longitude: -83.935411

Section Number: 3

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 72 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 73 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 6/15/1973

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SAND & GRAVEL
 Total Depth: 72 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 30 ft.

Test Rate: 10 gpm

Test Duration: 4 hrs.

Associated Reports

Sealing Report 310361

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	16
SAND & GRAVEL	16	21
GRAY CLAY	21	36
MIXED SAND & GRAVEL	36	41
GRAY CLAY	41	64
MIXED SAND & GRAVEL	64	68
COARSE SAND & GRAVEL	68	72
WATER AT		21
WATER AT		72

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443799

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RURAL HOME CONST CO

County: CLARK

Township: MADRIVER

Address: GROSSEPOINT

City:

State: OH

Location Number: 147

Location Map Year: 1980

Latitude: 39.865059

Longitude: -83.890576

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 75 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 27 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/15/1973

Total Depth: 75 ft.

Well Use:

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 55 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 2 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	21
GRAY LIMESTONE	21	65
YELLOW LIMESTONE	65	75
WATER AT		75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443800

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CLIFFORD ADKINS

County: CLARK

Address: 4318 REBERT PI

City:

Location Number: 135

Latitude: 39.867732

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.895767

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 60 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 6/15/1973

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 11 ft.

Drawdown: 40 ft.

COMMENTS:

Aquifer Type: LIMESTONE
 Total Depth: 60 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 8 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
LIMESTONE	18	60
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 444973

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ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 3222 FAIRFIELD PIKE PI
 City:
 Location Number: 154
 Latitude: 39.860957

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.875252

Section Number: 18
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 55 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 55 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 10/9/1972	Total Depth: 55 ft.	
Driller's Name:	Slot Size:	Screen Length:
Screen Diameter:	Material:	
Type:		
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 18 ft. Test Rate: 20 gpm
 Drawdown: 15 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	8
GRAY CLAY	8	21
SAND & GRAVEL	21	23
GRAY CLAY	23	36
SAND & GRAVEL	36	38
GRAY CLAY	38	51
LIMESTONE	51	55
WATER AT		23
WATER AT		55

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 454664

ORIGINAL OWNER AND LOCATION

Original Owner Name: C G BUILDER

County: CLARK

Address: REBERT PI

City:

Location Number: 117

Latitude: 39.874383

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.885432

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 70 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 70 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/23/1973

Driller's Name: LOTTS A E & SON

Aquifer Type: ROCK
 Total Depth: 70 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level:

Drawdown:

Test Rate: 10 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	4
YELLOW CLAY	4	18
YELLOW ROCK	18	28
WHITE ROCK	28	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 454678

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CC BUILDER

County: CLARK

Address: 3600 JACKSON RD

City:

Location Number: 214

Latitude: 39.831950

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.885854

Section Number: 22

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 50 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: ROCK

Date of Completion: 11/12/1973

Total Depth: 50 ft.

Well Use:

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
YELLOW CLAY	2	21
YELLOW ROCK	21	25
WHITE ROCK	25	50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 454679

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CC BUILDER

County: CLARK

Township: MADRIVER

Section Number: 22

Address: 3570 JACKSON RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year: 1980

Location Area:

Latitude: 39.832010

Longitude: -83.88502

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 77 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: ROCK

Well Use:

Date of Completion: 11/20/1973

Total Depth: 77 ft.

Driller's Name:

Screen Length:

Screen Diameter:

Slot Size:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 18 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	7
YELLOW CLAY	7	21
ROCK	21	77

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 455223

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUS KING

County: CLARK

Address: 4052 FOWLER RD

City:

Location Number: 131

Latitude: 39.869044

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917833

Section Number: 30

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 100 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 28 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion:

Total Depth: 100 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate: 2 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
SAND & GRAVEL	0	28
LIMESTONE	28	62
SHALE	62	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 455232

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ORIGINAL OWNER AND LOCATION

Original Owner Name: RON GREGORY
 County: CLARK
 Address: TECUMSEH RD
 City:
 Location Number: 212
 Latitude: 39.837967

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.888755

Section Number: 22
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 60 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion:	Total Depth: 60 ft.	
Driller's Name: CRABTREE WELL AND PUMP		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft. Test Rate: 8 gpm
 Drawdown: 10 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL & CLAY	8	14
LIMESTONE	14	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 455244

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Address: 4700 JACKSON RD

City:

Location Number: 210

Latitude: 39.834959

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.906816

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 105 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 105 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SAND & GRAVEL

Date of Completion:

Total Depth: 105 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
SAND & GRAVEL	16	24
CLAY	24	50
SAND & CLAY	50	65
CLAY	65	94
SAND & GRAVEL	94	105

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456273

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RURAL HOME CONST CO

County: CLARK

Township: MADRIVER

Address: GROSSEPOINT

City:

State: OH

Location Number: 148

Location Map Year: 1980

Latitude: 39.864366

Longitude: -83.889265

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 88 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/16/1974

Total Depth: 88 ft.

Well Use:

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 55 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
LIMESTONE	18	80
SHALE	80	85
LIMESTONE	85	88

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456274

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY
 County: CLARK
 Address: 4310 TECUMSEH RD S
 City:
 Location Number: 148
 Latitude: 39.864366

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.889265

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 90 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 8/16/1974	Total Depth: 90 ft.	
Driller's Name: WHEELER DRILLING SERVICE		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 60 ft. Test Rate: 20 gpm
 Drawdown: 10 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
BROWN CLAY	1	18
LIMESTONE	18	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456276

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Township: MADRIVER

Section Number: 24

Address: 4343 GROSSEPOINT ST

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year: 1980

Location Area:

Latitude: 39.864870

Longitude: -83.88857

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 85 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 26 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/16/1974

Total Depth: 85 ft.

Well Use:

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 8 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
LIMESTONE	18	75
SHALE	75	80
LIMESTONE	80	85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456278

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MILTON PALMER

County: CLARK

Address: 2939 HUSTEAD RD

City:

Location Number: 218

Latitude: 39.839184

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.872421

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 40 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 40 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/16/1974

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown:

COMMENTS:

Aquifer Type: SAND & GRAVEL

Total Depth: 40 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 30 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	16
GRAY CLAY	16	25
SAND & GRAVEL	25	40

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456279

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 4390 REBERT PI
 City:
 Location Number: 133
 Latitude: 39.867378

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.896854

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 45 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 8/16/1974	Total Depth: 45 ft.	
Driller's Name: WHEELER DRILLING SERVICE		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 15 ft. Test Rate: 8 gpm
 Drawdown: 15 ft. Test Duration: 3 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	19
LIMESTONE	19	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456282

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: 4319 GROSSEPOINT

City:

Location Number: 143

Latitude: 39.865478

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.888607

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 70 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/16/1974

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 70 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 45 ft.

Drawdown: 8 ft.

Test Rate: 10 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
SAND & GRAVEL	18	20
LIMESTONE	20	55
MUD	55	56
LIMESTONE	56	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456283

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ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 4356 REBERT PI
 City:
 Location Number: 134
 Latitude: 39.867489

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.896343

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 55 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 8/16/1974	Total Depth: 55 ft.	

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 13 ft.	Test Rate: 9 gpm	Associated Reports
Drawdown: 12 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	16
LIMESTONE	16	55

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456312

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ORIGINAL OWNER AND LOCATION

Original Owner Name: LESTER/RUBY BREWSTER

County: CLARK

Township: MADRIVER

Address: 3824 FOWLER RD

City:

State: OH

Location Number: 103

Location Map Year: 1980

Latitude: 39.872461

Longitude: -83.917398

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 80 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 66 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/3/1973

Total Depth: 80 ft.

Well Use:

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 50 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 12 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	8
SAND & GRAVEL	8	21
GRAY CLAY	21	60
SHALE	60	65
LIMESTONE	65	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456602

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Address: 4484 BROADWAY RD

City:

Location Number: 111

Latitude: 39.878150

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.898214

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 70 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 62 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 5/16/1973

Driller's Name: RUPERT AND SONS DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 32 ft.

Drawdown: 20 ft.

COMMENTS:

Aquifer Type: LIMESTONE
 Total Depth: 70 ft.

Well Use:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

Test Rate: 10 gpm
 Test Duration: 0.8 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	62
LIMESTONE	62	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456629

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Address: 4460 BROADWAY RD

City:

Location Number: 112

Latitude: 39.878185

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.897531

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 84 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 56 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 9/29/1973

Driller's Name: RUPERT AND SONS DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 42 ft.

COMMENTS:

Aquifer Type: LIMESTONE
 Total Depth: 84 ft.

Well Use:

Screen Length:

Slot Size:
 Material:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

Test Rate: 12 gpm
 Test Duration: 0.5 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	43
SAND	43	46
CLAY	46	56
LIMESTONE	56	84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 472018

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ORIGINAL OWNER AND LOCATION

Original Owner Name: EARL EDINGTON
 County: CLARK
 Address: 3864 FOWLER RD
 City:
 Location Number: 104
 Latitude: 39.871828

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.917524

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 76 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 55 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 1/30/1975	Total Depth: 76 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 45 ft.	Test Rate: 8 gpm	<u>Associated Reports</u>
Drawdown: 20 ft.	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
GRAVEL	5	55
SHALE	55	60
LIMESTONE	60	73
CLAY	73	76
DIRT	76	76

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 472033

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EARL EDINGTON
 County: CLARK
 Address: 3864 FOWLER RD
 City:
 Location Number: 104
 Latitude: 39.871828

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.917524

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 68 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 50 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 6/5/1975	Total Depth: 68 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 42 ft.	Test Rate: 16 gpm	<u>Associated Reports</u>
Drawdown:	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
DRY GRAVEL	7	45
CLAY	45	50
SHALE	50	60
LIMESTONE	60	68

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 472044

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ORIGINAL OWNER AND LOCATION

Original Owner Name: RALPH WADEGR
 County: CLARK
 Address: 4384 GROSSEPOINT RD
 City:
 Location Number: 145
 Latitude: 39.864708

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.88702

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 70 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: SHALE	Well Use:
Date of Completion: 8/14/1975	Total Depth: 70 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 40 ft.	Test Rate: 24 gpm	<u>Associated Reports</u>
Drawdown:	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	68
SHALE	68	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 472045

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ORIGINAL OWNER AND LOCATION

Original Owner Name: BILL STAKER

County: CLARK

Address: OLD MILL RD

City:

Location Number: 157

Latitude: 39.860671

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.881357

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 75 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 27 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion: 8/20/1975

Total Depth: 75 ft.

Well Use:

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 50 ft.

Test Rate: 18 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	73
SHALE	73	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 480598

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ORIGINAL OWNER AND LOCATION

Original Owner Name: SAM M C CONNEHEA
 County: CLARK
 Address: 5949 TECUMSEH RD
 City:
 Location Number: 185
 Latitude: 39.842059

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.890109

Section Number: 23
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 75 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion:	Total Depth: 75 ft.	
Driller's Name: FYFFE T J		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 15 ft. Test Rate: 20 gpm
 Drawdown: Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	14
LIMESTONE	14	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 486211

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RAYDEN JOHNSON
 County: CLARK
 Address: 4895 OLD MILL RD
 City:
 Location Number: 152
 Latitude: 39.857156

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.881825

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 98 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 70 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 1/8/1976	Total Depth: 98 ft.	
Driller's Name: EATON WELL & PUMP		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 40 ft. Test Rate: 13 gpm
 Drawdown: 25 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	15
GRAY CLAY	15	70
LIMESTONE	70	98

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 487204

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL GIBSON

County: CLARK

Address: 4895 OLD MILL RD

City:

Location Number: 151

Latitude: 39.857923

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.881534

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 105 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 10/6/1975

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 105 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 63 ft.

Drawdown: 30 ft.

Test Rate: 8 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	105
WATER AT		105

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 487223

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BEEFMAN & SON
 County: CLARK
 Address: 400 HUSTEAD RD S
 City:
 Location Number: 211
 Latitude: 39.838496

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.888844

Section Number: 22
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 95 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 30 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 5/11/1976	Total Depth: 95 ft.	Well Use:
Driller's Name: LOWER WELL DRILLING CO.		
Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft. Test Rate: 10 gpm
 Drawdown: 75 ft. Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	22
LIMESTONE	22	95
WATER AT		95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 489423

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK Township: MADRIVER
 Address: 4280 GROSSEPOINT RD
 City: State: OH
 Location Number: Location Map Year: 1980
 Latitude: 39.865840 Longitude: -83.88722

Section Number: 18
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 70 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 3/19/1976	Total Depth: 70 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 40 ft. Test Rate: 20 gpm
 Drawdown: Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	17
LIMESTONE	17	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 489424

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 3824 QUAIL HOLLOW
 City:
 Location Number: 142
 Latitude: 39.867189

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.886214

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 102 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: SHALE	Well Use:
Date of Completion: 3/19/1976	Total Depth: 102 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 40 ft.	Test Rate: 4 gpm	<u>Associated Reports</u>
Drawdown: 60 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
LIMESTONE	15	75
SHALE	75	102

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 489428

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 3990 ACREVIEW DR
 City:
 Location Number: 144
 Latitude: 39.866257

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.889338

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 70 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 4/9/1976	Total Depth: 70 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 35 ft.	Test Rate: 15 gpm	<u>Associated Reports</u>
Drawdown:	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
LIMESTONE	15	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 489429

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DANNY STACY
County: CLARK
Address: 3429 TECUMSEH RD S
City:
Location Number: 113
Latitude: 39.877305

Township: MADRIVER
State: OH
Location Map Year: 1980
Longitude: -83.89396

Section Number: 19
Lot Number:
Zip Code:
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 56 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6.63 in.	Casing Length: 1: 40 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 4/10/1976	Total Depth: 56 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 15 ft.	Test Rate: 25 gpm	<u>Associated Reports</u>
Drawdown: 5 ft.	Test Duration: 1.5 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
DRY GRAVEL	10	24
CLAY	24	36
GRAVEL	36	40
LIMESTONE	40	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 489442

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHESTER BLAIR
 County: CLARK
 Address: 3697 REBERT PI
 City:
 Location Number: 119
 Latitude: 39.875608

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.884262

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 62 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 27 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 6/14/1976	Total Depth: 62 ft.	

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 15 ft.	Test Rate: 9 gpm	<u>Associated Reports</u>
Drawdown: 10 ft.	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
SAND	10	24
LIMESTONE	24	62

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 489447

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HAROLD MAYER
 County: CLARK
 Address: 6484 MONETE RD
 City:
 Location Number: 215
 Latitude: 39.833402

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.883871

Section Number: 33
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 60 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 7/7/1976	Total Depth: 60 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft. Test Rate: 12 gpm
 Drawdown: Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
LIMESTONE	9	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 489448

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT EASTON

County: CLARK

Address: FOWLER RD

City:

Location Number: 207

Latitude: 39.839928

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.919446

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 63 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 63 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 7/9/1976

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: GRAVEL

Total Depth: 63 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown:

COMMENTS:

Test Rate: 9 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL	8	20
SAND	20	35
CLAY	35	55
GRAVEL	55	63

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502705

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 4027 CHICO CT
 City:
 Location Number: 147
 Latitude: 39.865059

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.890576

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 75 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 27 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 7/30/1976	Total Depth: 75 ft.	

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 50 ft.
 Drawdown:
 Test Rate: 12 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
SHALE	18	23
LIMESTONE	23	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502714

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Township: MADRIVER

Section Number: 24

Address: 4185 GROSSEPOINT ST

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year: 1980

Location Area:

Latitude: 39.867020

Longitude: -83.88842

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 85 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 9/8/1976

Total Depth: 85 ft.

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
LIMESTONE	16	84
SHALE	84	85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502724

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: THOMAS BLANTON
 County: CLARK
 Address: 3740 REBERT PI
 City:
 Location Number: 118
 Latitude: 39.875591

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.88573

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 72 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 11/10/1976	Total Depth: 72 ft.	
Driller's Name: HALL & JENKINS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft. Test Rate: 15 gpm
 Drawdown: Test Duration: 1.5 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	28
LIMESTONE	28	72

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502732

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN ROTRUCK
 County: CLARK
 Address: 4752 BROADWAY RD
 City:
 Location Number: 99
 Latitude: 39.877406

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.904161

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: Borehole Depth: 1: 52 ft.
 2: 2:
 Casing Diameter: 1: 5.63 in. Casing Length: 1: 43 ft.
 2: 2:
 Casing Height Above Ground:
 Date of Completion: 2/16/1977
 Driller's Name: HALLS WELL DRILLING
 Screen Diameter: Slot Size:
 Type: Material:
 Set Between:
 Gravel Pack Material/Size: Vol/Wt Used:
 Method of Installation: Placed:
 Grout Material/Size: Vol/Wt Used:
 Method of Installation: Placed

Depth to Bedrock:
 Casing Thickness: 1:
 2:

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 25 ft. Test Rate: 30 gpm
 Drawdown: Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL	12	26
CLAY	26	43
LIMESTONE	43	52

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502733

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ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: 4667 BROADWAY RD

City:

Location Number: 100

Latitude: 39.876612

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.902335

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 62 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 44 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 2/17/1977

Driller's Name: HALLS WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 62 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
GRAVEL	11	28
CLAY	28	44
LIMESTONE	44	62

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502738

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY
 County: CLARK
 Address: 4155 GROSSEPOINT
 City:
 Location Number: 140
 Latitude: 39.867877

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.888173

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 77 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 5/12/1977	Total Depth: 77 ft.	
Driller's Name: HALLS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 30 ft. Test Rate: 15 gpm
 Drawdown: Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	77

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502740

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GERALD NICKELL
 County: CLARK
 Address: 3896 REBERT PI
 City:
 Location Number: 115
 Latitude: 39.874067

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.887852

Section Number: 19
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 65 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 33 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 6/3/1977	Total Depth: 65 ft.	

Driller's Name: HALLS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 15 ft. Test Rate: 15 gpm
 Drawdown: 15 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	33
LIMESTONE	33	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 511781

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RALPH FORNEY
 County: CLARK
 Address: FOWLER RD
 City:
 Location Number: 174
 Latitude: 39.842898

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.919699

Section Number: 29
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 81 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 81 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: GRAVEL	Well Use:
Date of Completion: 7/30/1977	Total Depth: 81 ft.	
Driller's Name: SCOTT DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 48 ft. Test Rate: 20 gpm
 Drawdown: Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	4
DRY GRAVEL	4	28
HARDPAN	28	48
GRAVEL	48	50
SAND	50	69
HARDPAN	69	71
GRAVEL	71	81
WATER AT		50
WATER AT		81

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 517218

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MIKE STACY

County: CLARK

Address: 4525 BROADWAY RD

City:

Location Number: 101

Latitude: 39.877570

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.899111

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 81 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 60 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/12/1978

Driller's Name: HALLS WELL DRILLING

Aquifer Type: SANDSTONE

Total Depth: 81 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown:

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
SAND	0	29
SAND & GRAVEL	29	58
CLAY	58	60
LIMESTONE	60	81
SANDSTONE	81	85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 517287

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: 3680 ROCKY POINT RD

City:

Location Number:

Latitude: 39.870310

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.88489

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 60 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 5/18/1978

Driller's Name: HALLS WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 60 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 10 ft.

Test Rate: 24 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
GRAVEL	13	18
LIMESTONE	18	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 523752

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ORIGINAL OWNER AND LOCATION

Original Owner Name: MARION CONLEY
 County: CLARK
 Address: 4683 OLD MILL RD
 City:
 Location Number: 150
 Latitude: 39.860414

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.88216

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 104 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion:	Total Depth: 104 ft.	
Driller's Name: CRABTREE WELL AND PUMP		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 70 ft. Test Rate: 10 gpm
 Drawdown: 20 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	104

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 526698

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ORIGINAL OWNER AND LOCATION

Original Owner Name: FRANK LAMB

County: CLARK

Address: 5224 JACKSON RD W

City:

Location Number: 208

Latitude: 39.836061

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.915902

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 110 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 67 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 5/26/1978

Driller's Name: GARRISON CLAY P

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: ROCK

Total Depth: 110 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
SAND & CLAY	0	35
CLAY	35	65
ROCK	65	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 528478

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EDWARD PARKINSON

County: CLARK

Township: MADRIVER

Address: 4093 CHICO CT

City:

State: OH

Location Number:

Location Map Year: 1980

Latitude: 39.865140

Longitude: -83.89205

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 76 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 29 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SANDSTONE

Date of Completion: 8/23/1971

Total Depth: 76 ft.

Well Use:

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 31 ft.

Test Rate: 9 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
SHALE	9	14
LIMESTONE	14	22
SANDSTONE	22	47
LIMESTONE	47	50
SANDSTONE	50	76

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 530099

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KENT SWAYNL
 County: CLARK
 Address: 4880 BROADWAY RD
 City:
 Location Number: 98
 Latitude: 39.877279

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.906036

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 69 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 52 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 9/29/1979	Total Depth: 69 ft.	
Driller's Name: HALLS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 15 ft. Test Rate: 18 gpm
 Drawdown: 10 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	52
LIMESTONE	52	69

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 530099

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KENT SWAYNL
 County: CLARK
 Address: 4880 BROADWAY RD
 City:
 Location Number: 98
 Latitude: 39.877279

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.906036

Section Number: 25
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 69 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 52 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 9/29/1979	Total Depth: 69 ft.	
Driller's Name: HALLS WELL DRILLING		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed	

WELL TEST DETAILS

Static Water Level: 15 ft. Test Rate: 18 gpm
 Drawdown: 10 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	52
LIMESTONE	52	69

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 567410

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DAVID SMITH

County: CLARK

Address: FAIRFIELD PIKE RD

City:

Location Number: 181

Latitude: 39.852509

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.888447

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 84 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 58 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 4/26/1978

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE
 Total Depth: 84 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 58 ft.

Drawdown: 5 ft.

Test Rate: 10 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	22
GRAVEL & CLAY	22	58
LIMESTONE	58	84
WATER AT		84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 569855

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: TECUMSEH RD
 City:
 Location Number: 183
 Latitude: 39.846622

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.890791

Section Number: 23
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 82 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 30 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 5/1/1979	Total Depth: 82 ft.	Well Use:

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 20 ft. Test Rate: 8 gpm
 Drawdown: 60 ft. Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	82
WATER AT		80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 569865

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ORIGINAL OWNER AND LOCATION

Original Owner Name: RON PARKS

County: CLARK

Address: ROCKY POINT RD

City:

Location Number: 139

Latitude: 39.869401

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.888172

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 82 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 30 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/23/1979

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE
 Total Depth: 82 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 569866

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ORIGINAL OWNER AND LOCATION

Original Owner Name: BILL MEYER

County: CLARK

Address: 3865 OLD MILL RD

City:

Location Number: 122

Latitude: 39.871566

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.881313

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 95 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 30 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/28/1979

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 95 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 50 ft.

Test Rate: 8 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	95
WATER AT		95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 569873

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LON PARKS

County: CLARK

Address: JACKSON RD

City:

Location Number: 209

Latitude: 39.835510

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.910132

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 84 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 84 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: GRAVEL

Date of Completion: 10/16/1978

Total Depth: 84 ft.

Well Use:

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 64 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 4 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	80
GRAVEL	80	84
WATER AT		84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 609473

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOMAR CONST
 County: CLARK
 Address: 4915 RILEY RD
 City:
 Location Number:
 Latitude: 39.858270

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90718

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 120 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 3/14/1984	Total Depth: 120 ft.	Well Use:

Driller's Name: HAMILTON HARRY S & SONS

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 60 ft.	Test Rate: 16 gpm	<u>Associated Reports</u>
Drawdown: 5 ft.	Test Duration: 1.5 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	18
LIMESTONE	18	109
SANDSTONE	109	115
LIMESTONE	115	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 609487

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOMAR CONSTRUCTION

County: CLARK

Township: MADRIVER

Section Number:

Address: 4746 BOLIN DR

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.858160

Longitude: -83.90513

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 110 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 26 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/5/1984

Total Depth: 110 ft.

Well Use:

Driller's Name: HAMILTON HARRY S & SONS

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 30 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 626680

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM ABBERGEY
 County: CLARK
 Address: 2531 HUSTEAD RD
 City:
 Location Number:
 Latitude: 39.839580

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.86502

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 74 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 12/31/1985	Total Depth: 74 ft.	Well Use:

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 12 ft. Test Rate: 20 gpm
 Drawdown: 5 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	17
SAND & GRAVEL	17	23
LIMESTONE	23	74
WATER AT		74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 628858

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE BROWN

County: CLARK

Address: 3760 HUSTEAD RD

City:

Location Number:

Latitude: 39.841350

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88785

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 94 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/9/1985

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 94 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 30 ft.

Test Rate: 22 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	91
SHALE	91	94
WATER AT		91

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 628879

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BILL EHRGOTT
 County: CLARK
 Address: 3800 HUSTEAD RD
 City:
 Location Number:
 Latitude: 39.841380

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.88839

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 94 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 27 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: SHALE	Well Use:
Date of Completion: 10/1/1985	Total Depth: 94 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 14 ft.	Test Rate: 12 gpm	<u>Associated Reports</u>
Drawdown: 45 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	89
SHALE	89	94
WATER AT		89

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 636431

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ORIGINAL OWNER AND LOCATION

Original Owner Name: BROWN

County: CLARK

Address: 4741 ECHO HILLS RD

City:

Location Number:

Latitude: 39.858970

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90511

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 108 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 26 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 7/8/1986

Total Depth: 108 ft.

Well Use:

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 50 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 1.5 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL	12	22
LIMESTONE	22	108

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 643952

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JERRY ELMERS
 County: CLARK
 Address: 4777 BOLIN DR
 City:
 Location Number:
 Latitude: 39.857220

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90573

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 120 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 8/13/1984	Total Depth: 120 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 86 ft.	Test Rate: 20 gpm	<u>Associated Reports</u>
Drawdown: 5 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
LIMESTONE	16	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 648299

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ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM CARVER
 County: CLARK
 Address: 4443 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.862865

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.880895

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 95 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.5 in.	Casing Length: 1: 34 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: SHALE	
Date of Completion: 9/26/1984	Total Depth: 95 ft.	Well Use:

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 40 ft. Test Rate: 10 gpm
 Drawdown: 15 ft. Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
LIMESTONE	15	82
SHALE	82	95
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 648439

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ORIGINAL OWNER AND LOCATION

Original Owner Name: DUANE CARTMELL

County: CLARK

Township: MADRIVER

Section Number:

Address: 3526 OLD MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.877440

Longitude: -83.87943

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 71 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 71 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/7/1990

Total Depth: 71 ft.

Well Use:

Driller's Name: SCOTT WELL & PUMP CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 5 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	13
WHITE LIMESTONE	13	50
BLUE LIMESTONE	50	55
WHITE LIMESTONE	55	59
BLUE LIMESTONE	59	71

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 665747

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN HILT

County: CLARK

Address: 2544 HUSTEAD RD

City:

Location Number:

Latitude: 39.840060

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86563

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 82 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
2:

Casing Length: 1: 36 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 5/3/1988

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 82 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 13 ft.

Drawdown: 15 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	29
GRAVEL	29	32
LIMESTONE	32	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 668629

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ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL TYREE

County: CLARK

Address: 5060 TECUMSEH RD S

City:

Location Number:

Latitude: 39.855140

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88991

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 33 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 11 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/21/1991

Driller's Name: DEPEW WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 33 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 7 ft.

Drawdown: 1.5 ft.

Test Rate: 15 gpm

Test Duration: 0.5 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	32
GRAY SHALEY LIMESTONE	32	33

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 678124

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ORIGINAL OWNER AND LOCATION

Original Owner Name: GLEN SPENCER
 County: CLARK
 Address: 3260 ROCKY POINT
 City:
 Location Number:
 Latitude: 39.869670

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87319

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 90 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5.63 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use:
Date of Completion: 6/4/1989	Total Depth: 90 ft.	Screen Length:
Driller's Name: RIDDLE WELL DRILLING	Slot Size:	
Screen Diameter:	Material:	
Type:		
Set Between:	Vol/Wt Used:	
Gravel Pack Material/Size:	Placed:	
Method of Installation:	Vol/Wt Used:	
Grout Material/Size:	Placed:	
Method of Installation:		

WELL TEST DETAILS

Static Water Level: 49 ft. Test Rate: 10 gpm
 Drawdown: 6 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	4
BROWN CLAY	4	4
LIMESTONE	4	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 678593

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ORIGINAL OWNER AND LOCATION

Original Owner Name: ALAN WOOD

County: CLARK

Address: 4944 RILEY RD

City:

Location Number:

Latitude: 39.858020

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90591

Section Number: 30

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 130 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/13/1988

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 130 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 78 ft.

Drawdown: 15 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	17
GRAY LIMESTONE	17	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 678595

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ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT HOLLAND

County: CLARK

Township: MADRIVER

Section Number: 30

Address: 4850 ECHO HILLS AVE

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.859520

Longitude: -83.90628

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 120 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 30 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 4/13/1988

Total Depth: 120 ft.

Well Use:

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 78 ft.

Test Rate: 12 gpm

Associated Reports

Drawdown: 15 ft.

Test Duration: 1.5 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	14
GRAY LIMESTONE	14	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 679283

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY EASTER
 County: CLARK
 Address: 3250 ROCKY POINT RD
 City:
 Location Number:
 Latitude: 39.869640

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87266

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 95 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 27 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 5/28/1988	Total Depth: 95 ft.	Well Use:
Driller's Name: HAMILTON HARRY S & SONS		
Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 60 ft. Test Rate: 20 gpm
 Drawdown: 10 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 680565

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY BROOKINS
 County: CLARK
 Address: 3270 ROCKY POINT RD
 City:
 Location Number:
 Latitude: 39.869690

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87372

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 75 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 26 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 8/16/1988	Total Depth: 75 ft.	Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 60 ft.	Test Rate: 15 gpm	<u>Associated Reports</u>
Drawdown: 75 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 685321

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES STRAIT
 County: CLARK
 Address: 3612 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.875640

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87959

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 92 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 27 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 8/19/1988	Total Depth: 92 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 35 ft.	Test Rate: 50 gpm	<u>Associated Reports</u>
Drawdown: 5 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	92

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 687277

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY SMITH

County: CLARK

Address: 3620 OLD MILL RD

City:

Location Number:

Latitude: 39.874820

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87967

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 90 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/20/1988

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 90 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 5 ft.

Test Rate: 50 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 696226

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHESTER SANDLIN

County: CLARK

Township: MADRIVER

Section Number:

Address: 4871 BROADWAY RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.876370

Longitude: -83.90618

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 47 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 47 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: GRAVEL

Date of Completion: 5/25/1989

Total Depth: 47 ft.

Well Use: DOMESTIC

Driller's Name: BARKER'S WELL DRILLING, INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
CLAY	1	8
SAND & GRAVEL	8	12
CLAY	12	40
SAND	40	45
GRAVEL	45	47

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 697690

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY EASTER
 County: CLARK
 Address: 3624 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.874410

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.8797

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 90 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 6/1/1989	Total Depth: 90 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 10 ft. Test Rate: 25 gpm
 Drawdown: 20 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 702207

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RONALD GREGORY
 County: CLARK
 Address: 4723 ECHO HILLS AVE
 City:
 Location Number:
 Latitude: 39.858950

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90453

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 120 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 30 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 9/11/1989	Total Depth: 120 ft.	Well Use: DOMESTIC
Driller's Name: CRABTREE WELL AND PUMP		
Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 25 ft. Test Rate: 25 gpm
 Drawdown: 95 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	5
BROWN GRAVEL & CLAY	5	18
BROWN SANDY GRAVEL & CLAY	18	23
LIMESTONE	23	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 702248

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PATRICIA BENSON

County: CLARK

Township: MADRIVER

Section Number:

Address: 4642 ECHO HILLS AVE

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.859860

Longitude: -83.90339

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 125 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 30 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 3/7/1990

Total Depth: 125 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 95 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	20
GRAVEL	20	24
LIMESTONE	24	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 714558

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LONNIE THATCHER
 County: CLARK
 Address: 3220 ROCKY POINT RD
 City:
 Location Number:
 Latitude: 39.869660

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87158

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 90 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 29 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 7/30/1990	Total Depth: 90 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 60 ft.	Test Rate: 20 gpm	<u>Associated Reports</u>
Drawdown: 3 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
BROWN LIMESTONE	4	8
LIMESTONE	8	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 714581

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BRIAN LINDAMOOD

County: CLARK

Township: MADRIVER

Section Number:

Address: 3200 ROCKY POINT RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.8696

Longitude: -83.87048

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 90 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 29 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 9/28/1990

Total Depth: 90 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 40 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
BROWN LIMESTONE	5	8
LIMESTONE	8	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 714595

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ORIGINAL OWNER AND LOCATION

Original Owner Name: DOUG STEVENSON

County: CLARK

Township: MADRIVER

Section Number: 26

Address: 4644 BOLIN DR

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.858080

Longitude: -83.90353

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 115 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 29 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/30/1990

Total Depth: 115 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 1 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	115

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 719214

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL WALTER
 County: CLARK
 Address: 3600 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.876460

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87952

Section Number: 13
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 106 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 4/5/1991	Total Depth: 106 ft.	Well Use: DOMESTIC
Driller's Name: LOWER WELL DRILLING CO.		

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 25 ft.	Test Rate: 40 gpm
Drawdown: 15 ft.	Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
BROWN LIMESTONE	8	28
GRAY LIMESTONE	28	106
WATER AT		100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 719241

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ORIGINAL OWNER AND LOCATION

Original Owner Name: NORM CLAYPOOL

County: CLARK

Township: MADRIVER

Section Number: 13

Address: 3488 OLD MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.878670

Longitude: -83.87931

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 46 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/3/1990

Total Depth: 46 ft.

Well Use: DOMESTIC

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	12
BROWN SAND & GRAVEL	12	18
BROWN LIMESTONE	18	25
GRAY LIMESTONE	25	46
WATER AT		46

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 723457

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JEFF WEBER

County: CLARK

Township: MADRIVER

Section Number: 4

Address: 3510 OLD MILL RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.877850

Longitude: -83.87939

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 95 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 28 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 11/29/1990

Total Depth: 95 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 30 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations

From

To

CLAY

0

15

LIMESTONE

15

95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 730143

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CLAYPOOL CONST.

County: CLARK

Township: MADRIVER

Section Number:

Address: 3333 ROCKY POINT RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.868970

Longitude: -83.87606

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 141 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE & SHALE

Date of Completion: 6/25/1991

Total Depth: 141 ft.

Well Use: DOMESTIC

Driller's Name: WILEY WELL DRILLING, INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 46 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE & SHALE	6	141

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 734355

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL WALTER
 County: CLARK
 Address: 3496 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.878260

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87935

Section Number: 13
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 94 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 7/11/1991	Total Depth: 94 ft.	Well Use: DOMESTIC
Driller's Name: LOWER WELL DRILLING CO.		

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 30 ft. Test Rate: 100 gpm
 Drawdown: 10 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	16
BROWN GRAVEL & CLAY	16	18
BROWN LIMESTONE	18	25
GRAY LIMESTONE	25	60
BLUE LIMESTONE	60	94
WATER AT		94

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 740302

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MADDEN CONST.

County: CLARK

Township: MADRIVER

Section Number:

Address: 6303 TECUMSEH RD S

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.836320

Longitude: -83.88831

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 90 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 29 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 9/23/1991

Total Depth: 90 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 40 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL	8	10
LIMESTONE	10	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 749271

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BRIAN COMMWER
County: CLARK
Address: 3616 OLD MILL RD
City:
Location Number:
Latitude: 39.875230

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.87963

Section Number:
Lot Number:
Zip Code:
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: Borehole Depth: 1: 80 ft. Depth to Bedrock:
2: 2:
Casing Diameter: 1: 5 in. Casing Length: 1: 28 ft. Casing Thickness: 1:
2: 2: 2:
Casing Height Above Ground: Aquifer Type: LIMESTONE
Date of Completion: 7/10/1992 Total Depth: 80 ft. Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter: Slot Size: Screen Length:
Type: Material:
Set Between:
Gravel Pack Material/Size: Vol/Wt Used:
Method of Installation: Placed:
Grout Material/Size: Vol/Wt Used:
Method of Installation: Placed

WELL TEST DETAILS

Static Water Level: 35 ft. Test Rate: 35 gpm
Drawdown: 5 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL	9	11
LIMESTONE	11	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 761840

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JULIA CADY

County: CLARK

Township: MADRIVER

Section Number:

Address: 2811 COLLIER RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.8619

Longitude: -83.87039

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 80 ft.

Depth to Bedrock:

2:

2: 80 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 28 ft.

Casing Thickness: 1:

2:

2: 28 ft.

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 4/7/1993

Total Depth: 80 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
GRAVEL	18	23
LIMESTONE	23	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 762308

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY RUTHERFORD

County: CLARK

Township: MADRIVER

Section Number:

Address: 3060 FAIRFIELD PIKE PI

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.863580

Longitude: -83.87262

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 105 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 30 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/22/1992

Total Depth: 105 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 34 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 71 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	6
BROWN GRAVEL & CLAY	6	18
BROWN CLAY	18	24
LIMESTONE	24	105

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 769956

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DOUG OGILSBIE
County: CLARK
Address: 6459 MANETE ST
City:
Location Number:
Latitude: 39.833980

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.88511

Section Number:
Lot Number:
Zip Code:
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 80 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 25 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion:

Total Depth: 80 ft.

Driller's Name: DARBYS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 43 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 771225

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: COOPER HOMES

County: CLARK

Address: 4496 ECHO HILLS DR

City:

Location Number:

Latitude: 39.859240

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90057

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 140 ft.

2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 50 ft.

2: 50 ft.

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/24/1993

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 90 ft.

Drawdown: 1 ft.

Test Rate: 9 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 772970

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BURGANDY BUILDERS

County: CLARK

Township: MADRIVER

Section Number: 33

Address: 4563 BOLIN AVE

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.857030

Longitude: -83.90182

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 129 ft.
2: 129 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 35 ft.
2: 35 ft.

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/24/1993

Total Depth: 129 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 100 ft.

Test Rate: 15 gpm

Associated Reports

Drawdown: 29 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	7
SAND & CLAY	7	15
BROWN CLAY	15	25
LIMESTONE	25	65
SHALE	65	73
LIMESTONE	73	105
SHALE	105	110
LIMESTONE	110	129

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 775435

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: H.B.H. BUILDERS
 County: CLARK
 Address: 3317 ROCKY POINT
 City:
 Location Number:
 Latitude: 39.868930

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87542

Section Number: 18
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 58 ft.	Depth to Bedrock:
2:	2: 58 ft.	
Casing Diameter: 1: 6 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2: 25 ft.	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 2/5/1994	Total Depth: 58 ft.	Well Use: DOMESTIC

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 47 ft.	Test Rate: 15 gpm	<u>Associated Reports</u>
Drawdown: 2 ft.	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	4
GRAY LIMESTONE	4	58
WATER AT		58

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 781268

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RAY KEGLEY CONST.

County: CLARK

Township: MADRIVER

Section Number:

Address: 6323 GARRISON RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.836780

Longitude: -83.89832

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 125 ft.
2: 125 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 28 ft.
2: 28 ft.

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/12/1993

Total Depth: 125 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL	9	21
LIMESTONE	21	60
SHALE	60	85
LIMESTONE	85	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 783261

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PATWIL HOMES
 County: CLARK
 Address: 4695 BOLIN AVE
 City:
 Location Number:
 Latitude: 39.857140

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90413

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 120 ft.	Depth to Bedrock:
2:	2: 120 ft.	
Casing Diameter: 1: 5 in.	Casing Length: 1: 25 ft.	Casing Thickness: 1:
2:	2: 25 ft.	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	
Date of Completion: 12/15/1993	Total Depth: 120 ft.	Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 78 ft. Test Rate: 20 gpm
 Drawdown: 42 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN GRAVEL & CLAY	0	8
GRAVEL & SAND	8	14
LIMESTONE	14	38
SHALE	38	43
LIMESTONE	43	59
SHALE	59	66
LIMESTONE	66	84
SHALE	84	97
LIMESTONE	97	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 791761

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BARRY/VIRGINIA TUTT

County: CLARK

Township: MADRIVER

Section Number:

Address: 4692 ECHO HILLS AVE

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.859890

Longitude: -83.90392

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 70 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 4/8/1995

Total Depth: 70 ft.

Well Use: DOMESTIC

Driller's Name: DEPEW WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 18 ft.

Test Rate: 8 gpm

Associated Reports

Drawdown: 30 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	21
LT. GRAY LIMESTONE	21	40
DARK GRAY SHALEY LIMESTONE	40	70
WATER AT		40

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 803866

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HARRY MADDEN
 County: CLARK
 Address: 4566 BOLIN DR
 City:
 Location Number:
 Latitude: 39.8580

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90174

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 140 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 40 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 6/21/1995	Total Depth: 140 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 90 ft.	Test Rate: 11 gpm	<u>Associated Reports</u>
Drawdown: 2 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
SAND & GRAVEL	8	17
CLAY	17	36
LIMESTONE	36	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 810691

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TIM WISKIIRCHEN
 County: CLARK
 Address: 4697 ECHO HILLS DR
 City:
 Location Number:
 Latitude: 39.858930

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.904

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 113 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:
 Date of Completion: 3/29/1995

Aquifer Type: LIMESTONE
 Total Depth: 113 ft.

Well Use: DOMESTIC

Driller's Name: R.C. BARRY COMPANY

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 71 ft.
 Drawdown: 85 ft.

Test Rate: 12 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
BROKEN LIMESTONE	18	22
LIMESTONE	22	40
SHALE	40	45
LIMESTONE	45	113

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 824108

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MADDEN CONSTRUCTION

County: CLARK

Township: MADRIVER

Section Number: 44

Address: 4560 ECHO HILLS DR

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.859780

Longitude: -83.9016

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 160 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 32 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion: 10/26/1995

Total Depth: 160 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 89 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 2 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL & CLAY	8	15
LIMESTONE	15	150
SHALE	150	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 824123

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BILL PITTMAN

County: CLARK

Address: 4943 RILEY RD

City:

Location Number:

Latitude: 39.857840

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90721

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 120 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 12/1/1995

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 120 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 70 ft.

Drawdown: 5 ft.

COMMENTS:

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	7
GRAVEL	7	16
LIMESTONE	16	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 832214

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BAIR CONSTRUCTION

County: CLARK

Township: MADRIVER

Section Number:

Address: 3495 FAIRFIELD PIKE PI

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.855690

Longitude: -83.88011

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 80 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 30 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 7/29/1996

Total Depth: 80 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 45 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 80 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	22
LIMESTONE	22	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 837340

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MIKE STACY

County: CLARK

Address: 5432 BROADWAY RD

City:

Location Number:

Latitude: 39.876040

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.91624

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 60 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 25 ft.
 2:

Casing Thickness: 1: 0.165 in.
 2:

Casing Height Above Ground:

Date of Completion: 1/1/1998

Driller's Name: DARBYS WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 60 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 10 ft.

Test Rate: 5 gpm

Test Duration: 3 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	25
LIMESTONE	25	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 837796

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4726 BOLIN DR
 City:
 Location Number:
 Latitude: 39.858130

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.9046

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 112 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 7/3/1996	Total Depth: 112 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 75 ft. Test Rate: 20 gpm
 Drawdown: 70 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	112

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 837814

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MADDEN CONSTRUCTION

County: CLARK

Township: MADRIVER

Section Number:

Address: 4643 ECHO HILLS DR

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.8589

Longitude: -83.90347

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 118 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 28 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/8/1996

Total Depth: 118 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 90 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
GRAVEL	6	14
LIMESTONE	14	118

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 837825

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN HAMMOND
 County: CLARK
 Address: 4221 GROSSEPOINT ST
 City:
 Location Number:
 Latitude: 39.866620

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.88845

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 158 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 30 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 8/30/1996	Total Depth: 158 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 85 ft.	Test Rate: 12 gpm	<u>Associated Reports</u>
Drawdown: 40 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL & CLAY	9	14
LIMESTONE	14	158

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 848079

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ORIGINAL OWNER AND LOCATION

Original Owner Name: HOWARD YOST
 County: CLARK
 Address: 3285 ROCKY POINT RD
 City:
 Location Number:
 Latitude: 39.8689

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87478

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 100 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 11/13/1996	Total Depth: 100 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 45 ft.	Test Rate: 10 gpm	<u>Associated Reports</u>
Drawdown: 10 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
LIMESTONE	5	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 848163

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE AGLE

County: CLARK

Address: 5744 TECUMSEH RD S

City:

Location Number:

Latitude: 39.844651

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.889871

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 130 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/22/1997

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 130 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 65 ft.

Drawdown: 20 ft.

Test Rate: 35 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
GRAVEL	2	10
LIMESTONE	10	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 865307

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CHUCK LEGGE
 County: CLARK
 Address: 5246 TECUMSEH RD S
 City:
 Location Number:
 Latitude: 39.852330

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.88913

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 6 in.
 2:
 Casing Diameter: 1:
 2: 6 in.

Borehole Depth: 1: 62 ft.
 2: 95 ft.
 Casing Length: 1:
 2: 62 ft.

Depth to Bedrock:
 Casing Thickness: 1:
 2: 0.142 in.

Casing Height Above Ground:
 Date of Completion: 12/17/1997
 Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE
 Total Depth: 95 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:
 Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Slot Size:
 Material:
 Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 58 ft.
 Drawdown: 6 ft.

Test Rate: 8 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
BROWN SAND & GRAVEL	8	38
GRAY CLAY	38	62
GRAY LIMESTONE	62	95
WATER AT	70	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 865313

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM AMBURGY

County: CLARK

Address: 2521 HUSTEAD RD

City:

Location Number:

Latitude: 39.839620

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86438

Section Number: 16

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 31 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 31 ft.
 2:

Casing Thickness: 1: 0.38 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 6/26/1998

Total Depth: 72 ft.

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 5 ft.

Test Rate: 10 gpm

Associated Reports

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	21
GRAY CLAY	21	25
SANDY GRAVEL	25	28
GRAY LIMESTONE	28	38
BROWN LIMESTONE	38	58
GRAY LIMESTONE	58	70
WATER AT	58	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 865321

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KEVIN DEWEY

County: CLARK

Address: 3542 OLD MILL RD

City:

Location Number:

Latitude: 39.878290

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87971

Section Number: 13

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 27 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1: 0.38 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/20/1998

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 94 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 3 ft.

Test Rate: 20 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	15
GRAY CLAY	15	16
GRAY GRAVEL	16	20
GRAY LIMESTONE	20	94
WATER AT	92	92

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 872567

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ORIGINAL OWNER AND LOCATION

Original Owner Name: BENNY OWENS
 County: CLARK
 Address: 3295 TECUMSEH RD S
 City:
 Location Number:
 Latitude: 39.879030

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.89545

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 100 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 55 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 5/19/1998	Total Depth: 100 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 30 ft.	Test Rate: 20 gpm	<u>Associated Reports</u>
Drawdown: 20 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	53
LIMESTONE	53	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 872606

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ORIGINAL OWNER AND LOCATION

Original Owner Name: TIM WISKERCHEN
 County: CLARK
 Address: 3080 FAIRFIELD PIKE PI
 City:
 Location Number:
 Latitude: 39.863180

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.873

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 100 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 9/21/1998	Total Depth: 100 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 40 ft.	Test Rate: 15 gpm	<u>Associated Reports</u>
Drawdown: 5 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 872632

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BILL WILKENS
 County: CLARK
 Address: 3325 TECUMSEH RD S
 City:
 Location Number:
 Latitude: 39.878680

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.89517

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 98 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 46 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 12/4/1998	Total Depth: 98 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 30 ft.	Test Rate: 20 gpm	<u>Associated Reports</u>
Drawdown: 15 ft.	Test Duration:	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	30
GRAVEL & CLAY	30	45
LIMESTONE	45	98

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 872636

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KEN WOOTEN

County: CLARK

Address: 3357 TECUMSEH RD S

City:

Location Number:

Latitude: 39.878330

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89489

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 100 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 47 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 1/13/1999

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 32 ft.

Drawdown: 10 ft.

Test Rate: 18 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	46
LIMESTONE	46	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 885333

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PATRICK ZERBY

County: CLARK

Address: 5152 TECUMSEH RD S

City:

Location Number:

Latitude: 39.853710

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88954

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.5 in.

2:

Borehole Depth: 1: 78 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 78 ft.

2:

Casing Thickness: 1: 0.21 in.

2:

Casing Height Above Ground: 1

Date of Completion: 11/19/1998

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 141 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 83 ft.

Drawdown: 35 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
BLUE CLAY	5	78
BROWN LIMESTONE	78	118
GREEN LIMESTONE	118	130
GRAY LIMESTONE	130	137
GRAY SHALE	137	141

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 885351

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TERRY GREGORY
 County: CLARK
 Address: 4624 ECHO HILLS
 City:
 Location Number:
 Latitude: 39.859460

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90538

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 80 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 82 ft.
 2:

Casing Thickness: 1: 0.21 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 8/10/1999

Total Depth: 130 ft.

Well Use: DOMESTIC

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 91 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 3 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	10
BLUE CLAY	10	23
BROWN SANDSTONE	23	75
WHITE LIMESTONE	75	95
GREEN LIMESTONE	95	125
GRAY LIMESTONE	125	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 885358

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LEONARD GASTON

County: CLARK

Township: MADRIVER

Section Number:

Address: 5146 JACKSON RD W

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.835080

Longitude: -83.91571

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.5 in.

Borehole Depth: 1: 117 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 107 ft.

Casing Thickness: 1: 0.21 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SAND & GRAVEL

Well Use: AGRIC/IRRIG

Date of Completion: 9/25/1999

Total Depth: 117 ft.

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Slot Size:

Screen Length: 10 ft.

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 64 ft.

Test Rate: 14 gpm

[Associated Reports](#)

Drawdown: 2 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	35
SAND & GRAVEL	35	50
BLUE SANDY CLAY	50	102
SAND & GRAVEL	102	117

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 888284

ORIGINAL OWNER AND LOCATION

Original Owner Name: DAVID HUSTED
 County: CLARK
 Address: 3480 REBERT PI
 City:
 Location Number:
 Latitude: 39.879830

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87921

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.75 in.

Borehole Depth: 1: 41 ft.
 2: 100 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 40 ft.
 2:

Casing Thickness: 1: 0.17 in.
 2:

Casing Height Above Ground:
 Date of Completion: 11/25/1998
 Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE
 Total Depth: 100 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 38 ft.
 Drawdown:

Test Rate: 15 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	14
LIMESTONE	14	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 895055

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BILL & CLOWA JUSTICE

County: CLARK

Township: MADRIVER

Section Number:

Address: 5005 JACKSON RD

Lot Number:

City:

State: OH

Zip Code: 45323

Location Number:

Location Map Year:

Location Area:

Latitude: 39.834630

Longitude: -83.91293

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 62 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 62 ft.

Casing Thickness: 1: 0.032 in.

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: GRAVEL & SAND

Well Use: DOMESTIC

Date of Completion: 5/11/1999

Total Depth: 62 ft.

Driller's Name: BARKER'S WELL DRILLING, INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 22 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
RED SAND	2	34
YELLOW CLAY	34	46
GRAVEL	46	53
GRAY CLAY	53	54
WET GRAVEL & SAND	54	62

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 895519

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4501 JEREMY DR
 City:
 Location Number:
 Latitude: 39.860550

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90048

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 150 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 6 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: SHALE	
Date of Completion: 8/15/1999	Total Depth: 150 ft.	Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 100 ft.	Test Rate: 25 gpm	<u>Associated Reports</u>
Drawdown: 5 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
LIMESTONE	8	143
SHALE	143	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 895573

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4410 OAKWOOD RD
 City:
 Location Number:
 Latitude: 39.862380

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90051

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 120 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 27 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 2/8/2000	Total Depth: 120 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 40 ft.	Test Rate: 10 gpm	<u>Associated Reports</u>
Drawdown: 20 ft.	Test Duration: 1 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 901161

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES RANDALL
 County: CLARK
 Address: 2678 HUSTEAD RD
 City:
 Location Number:
 Latitude: 39.840030

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.86745

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2:

Borehole Depth: 1: 80 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 38 ft.
 2:

Casing Thickness: 1: 0.17 in.
 2:

Casing Height Above Ground:
 Date of Completion: 10/21/1999

Aquifer Type: LIMESTONE
 Total Depth: 80 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 20 ft.
 Drawdown:

Test Rate: 25 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	20
SAND & GRAVEL	20	35
GRAY CLAY	35	38
LIMESTONE	38	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 902119

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DEMMY SAND & GRAVEL

County: CLARK

Township: MADRIVER

Section Number: 24

Address: 4324 FAIRFIELD PIKE PI

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.8489

Longitude: -83.89861

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2: 5.5 in.

Borehole Depth: 1: 79 ft.
 2: 200 ft.

Depth to Bedrock:

Casing Diameter: 1: 6.5 in.
 2:

Casing Length: 1: 79 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/12/1999

Total Depth: 200 ft.

Well Use: DOMESTIC

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 71 ft.

Test Rate: 40 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
SAND & GRAVEL	2	35
GRAVEL	35	64
GRAVELLY CLAY	64	76
BLUE SHALE	76	86
LIMESTONE	86	200

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908583

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BRANSON PYLES
 County: CLARK
 Address: 2825 COLLIER RD
 City:
 Location Number:
 Latitude: 39.861920

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87076

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2:

Borehole Depth: 1: 80 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 40 ft.
 2:

Casing Thickness: 1: 0.17 in.
 2:

Casing Height Above Ground:
 Date of Completion: 12/20/1999

Aquifer Type: LIMESTONE
 Total Depth: 80 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 12 ft.
 Drawdown: 10 ft.

Test Rate: 20 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	16
GRAVEL	16	18
LIMESTONE	18	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908585

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ORIGINAL OWNER AND LOCATION

Original Owner Name: DAN YOUNG

County: CLARK

Address: 2869 JACKSON RD W

City:

Location Number:

Latitude: 39.831650

Township: GREEN

State: OH

Location Map Year:

Longitude: -83.87153

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2:

Borehole Depth: 1: 100 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 40 ft.
 2:

Casing Thickness: 1: 0.17 in.
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 12/17/1999

Total Depth: 100 ft.

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 22 ft.

Test Rate: 15 gpm

Associated Reports

Drawdown: 18 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
GRAY CLAY	9	22
SAND	22	31
GRAVEL	31	42
LIMESTONE	42	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908604

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: VERNON BAILEY
 County: CLARK
 Address: 2720 FAIRFIELD PKWY
 City:
 Location Number:
 Latitude: 39.868540

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.86693

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.	Borehole Depth: 1: 80 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1:	Casing Length: 1:	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground: 1.50	Aquifer Type: LIMESTONE	
Date of Completion: 1/10/2000	Total Depth: 120 ft.	Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 25 ft.	Test Rate: 15 gpm	<u>Associated Reports</u>
Drawdown: 15 ft.	Test Duration: 2 hrs.	

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	10
LIMESTONE	10	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908665

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRIS BLUE

County: CLARK

Address: 3620 FAIRFIELD PKWY

City:

Location Number:

Latitude: 39.854080

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88358

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2:

Borehole Depth: 1: 45 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 45 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1.50

Aquifer Type: LIMESTONE

Date of Completion: 4/22/2000

Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
GRAY CLAY	9	45
LIMESTONE	45	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 909847

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BRIAN MINTEER
 County: CLARK
 Address: 3795 REBERT PI
 City:
 Location Number:
 Latitude: 39.875030

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.88545

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2:

Borehole Depth: 1: 26 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1: 0.316 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/30/2001

Total Depth: 81 ft.

Well Use: DOMESTIC

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 22 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
FINE SAND	3	26
BROWN LIMESTONE	26	70
YELLOW LIMESTONE	70	81

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 910406

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TLW BUILDERS
 County: CLARK
 Address: 2982 SHANK RD
 City:
 Location Number:
 Latitude: 39.863760

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87055

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 100 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 3/4/2000	Total Depth: 100 ft.	Screen Length:
Driller's Name:	Slot Size:	
Screen Diameter:	Material:	
Type:		
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 42 ft. Test Rate: 12 gpm
 Drawdown: 15 ft. Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY & GRAVEL	8	16
LIMESTONE	16	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 913338

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: THOMAS DIYON
 County: CLARK
 Address: 5766 GARRISON RD
 City:
 Location Number:
 Latitude: 39.845020

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90242

Section Number:
 Lot Number:
 Zip Code: 45324
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 120 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
 2:

Casing Length: 1: 72 ft.
 2:

Casing Thickness: 1: 0.188 in.
 2:

Casing Height Above Ground:
 Date of Completion: 6/25/2000

Aquifer Type: SAND
 Total Depth: 120 ft.

Well Use: DOMESTIC

Driller's Name:
 Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed:

WELL TEST DETAILS

Static Water Level: 10 ft.
 Drawdown:

Test Rate: 8 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
DRY GRAVEL	2	6
YELLOW CLAY	6	17
GRAY CLAY	17	36
WET SAND	36	38
GRAY CLAY	38	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 915272

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM SUENDSON

County: CLARK

Address: 3945 ROCKY POINT

City:

Location Number:

Latitude: 39.869950

Township: PIKE

State: OH

Location Map Year:

Longitude: -83.8887

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 0.005 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1.50

Date of Completion: 6/23/2000

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 25 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	20
GRAY CLAY	20	30
LIMESTONE	30	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 916406

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RON FISHER

County: CLARK

Address: 4896 TECUMSEH RD S

City:

Location Number:

Latitude: 39.857240

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89065

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 80 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 30 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/13/2000

Total Depth: 80 ft.

Well Use: DOMESTIC

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 2 gpm

Drawdown: 1 ft.

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
LIMESTONE	2	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 916419

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HOME SPECIALIST

County: CLARK

Township: MADRIVER

Section Number:

Address: 4295 BROADWAY

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.8776

Longitude: -83.89554

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 82 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 40 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 7/7/2000

Total Depth: 82 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 50 gpm

[Associated Reports](#)

Drawdown: 2 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	38
LIMESTONE	38	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 916480

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ORIGINAL OWNER AND LOCATION

Original Owner Name: TIM WISKIRCHEN
County: CLARK
Address: 2811 FAIRFIELD PKWY
City:
Location Number:
Latitude: 39.867990

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.8666

Section Number:
Lot Number:
Zip Code:
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:	Borehole Depth: 1: 100 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 28 ft.	Casing Thickness: 1:
2:	2:	2:
Casing Height Above Ground:	Aquifer Type: LIMESTONE	Well Use: DOMESTIC
Date of Completion: 11/17/2000	Total Depth: 100 ft.	

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:	Slot Size:	Screen Length:
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	

WELL TEST DETAILS

Static Water Level: 30 ft. Test Rate: 25 gpm
Drawdown: 20 ft. Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	10
LIMESTONE	10	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 917968

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ORIGINAL OWNER AND LOCATION

Original Owner Name: SHRINE BUILDING CO.

County: CLARK

Township: MADRIVER

Section Number:

Address: 4437 OAKWOOD DR

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.861660

Longitude: -83.90121

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 5 in.

Borehole Depth: 1: 180 ft.
 2: 179 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: SHALE

Date of Completion: 2/25/2002

Total Depth: 180 ft.

Well Use:

Driller's Name: BOONE WATER SYSTEMS INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 100 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	68
SHALE	68	73
LIMESTONE	73	155
SHALE	155	180

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 921842

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: AXEL MARKIN
 County: CLARK
 Address: 3411 ROCKY POINT
 City:
 Location Number:
 Latitude: 39.869360

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87804

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2:

Borehole Depth: 1: 160 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 32 ft.
 2:

Casing Thickness: 1: 0.17 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 10/3/2000

Aquifer Type: SHALE
 Total Depth: 160 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 110 ft.
 Drawdown: 5 ft.

Test Rate: 12 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	5
LIMESTONE	5	154
SHALE	154	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 921912

ORIGINAL OWNER AND LOCATION

Original Owner Name: D.B. GRIEDER

County: CLARK

Address: 3915 OLD MILL RD

City:

Location Number:

Latitude: 39.870620

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87962

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 120 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 42 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1

Date of Completion: 3/19/2001

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 120 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 80 ft.

Drawdown: 10 ft.

Test Rate: 12 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	7
LIMESTONE	7	47
SHALE	47	91
LIMESTONE	91	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 921921

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ORIGINAL OWNER AND LOCATION

Original Owner Name: STUDEBAKER CONSTRUCT

County: CLARK

Township: MADRIVER

Section Number:

Address: 4556 SULLIVAN

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.8630

Longitude: -83.90154

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

Borehole Depth: 1: 142 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1:

Casing Thickness: 1: 0.327 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 4/3/2001

Total Depth: 142 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown: 60 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
WHITE LIMESTONE	8	70
SHALE	70	72
WHITE STONE	72	90
YELLOW LIMESTONE	90	92
WHITE LIMESTONE	92	142

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 924822

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ORIGINAL OWNER AND LOCATION

Original Owner Name: DAVE EDMUNDS
 County: CLARK
 Address: 4549 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.861930

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.88094

Section Number: 24
 Lot Number:
 Zip Code: 45505
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 6 in.
 2:

Borehole Depth: 1: 28 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1: 0.188 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 9/20/2001

Aquifer Type: LIMESTONE
 Total Depth: 118 ft.

Well Use: DOMESTIC

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 50 ft.
 Drawdown: 25 ft.

Test Rate: 4 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	6
BROWN GRAVEL	6	26
GRAY LIMESTONE	26	70
GRAY SHALE	70	110
WHITE LIMESTONE	110	118
WATER AT	40	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 927685

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CARL/LINDA MYERS

County: CLARK

Township: MADRIVER

Section Number:

Address: 6419 TECUMSEH RD S

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.834780

Longitude: -83.88805

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8 in.
 2: 5.5 in.

Borehole Depth: 1: 25 ft.
 2: 90 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.188 in.
 2:

Casing Height Above Ground: 2

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 8/4/2001

Total Depth: 90 ft.

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 28 ft.

Test Rate: 30 gpm

Associated Reports

Drawdown: 10 ft.

Test Duration: 3 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
LIMESTONE	9	90
WATER AT	40	40
WATER AT	82	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 929237

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ORIGINAL OWNER AND LOCATION

Original Owner Name: MIKE ODELL

County: CLARK

Address: 2782 FAIRFIELD PI

City:

Location Number:

Latitude: 39.867690

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86784

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.5 in.

Borehole Depth: 1: 40 ft.
 2: 100 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 40 ft.
 2:

Casing Thickness: 1: 0.35 in.
 2:

Casing Height Above Ground:

Date of Completion: 8/14/2001

Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 17 ft.

Drawdown:

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	14
LIMESTONE	14	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933615

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DUSTIN CRANWOOD

County: CLARK

Township: MADRIVER

Section Number:

Address: 2586 HUSTEAD RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.839950

Longitude: -83.86564

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

Borehole Depth: 1: 98 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 40 ft.

Casing Thickness: 1: 0.327 in.

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 6/17/2002

Total Depth: 98 ft.

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 10 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	7
GRAY CLAY & GRAVEL	7	18
GRAVEL	18	23
LIMESTONE	23	98

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933626

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM MCCUDDY

County: CLARK

Address: 4471 REBERT PI

City:

Location Number:

Latitude: 39.866710

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89761

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 80 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 6/22/2001

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 10 ft.

Test Rate: 25 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS: RPM MGT.

WELL LOG

Formations	From	To
BROWN CLAY	0	12
LIMESTONE	12	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 937644

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN HORNSETH
 County: CLARK
 Address: 2939 HUSTEDD RD
 City:
 Location Number:
 Latitude: 39.839960

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87188

Section Number: 16
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 40 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 40 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground:
 Date of Completion: 6/27/2002
 Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE
 Total Depth: 100 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 9 ft.
 Drawdown:

Test Rate: 15 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BLUE CLAY	0	38
LIMESTONE	38	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 939792

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RON DENNEY

County: CLARK

Address: 3730 ROCKY POINT RD

City:

Location Number:

Latitude: 39.870010

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88454

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 63 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 2

Aquifer Type: LIMESTONE

Date of Completion: 9/6/2002

Total Depth: 63 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
CLAY & GRAVEL	2	20
LIMESTONE	20	63

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 939807

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE SCHAEFFER

County: CLARK

Township: SPRINGFIELD

Section Number:

Address: 4420 TECUMSEH RD S

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.863550

Longitude: -83.89008

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

Borehole Depth: 1: 142 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 32 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SHALE

Well Use: DOMESTIC

Date of Completion: 8/18/2003

Total Depth: 142 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 60 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	140
SHALE	140	142
WATER AT	140	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 939832

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DAN GIBSON

County: CLARK

Address: 4372 OLD MILL RD

City:

Location Number:

Latitude: 39.864420

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88036

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 140 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 70 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 2

Date of Completion: 3/7/2002

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 105 ft.

Drawdown:

COMMENTS:

Test Rate: 12 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	60
SHALE	60	66
LIMESTONE	66	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 942838

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: NELSON HOMES WEST

County: CLARK

Township: MADRIVER

Address: 3060 JACKSON RD W

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.831140

Longitude: -83.87511

Section Number:

Lot Number:

Zip Code: 45500

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.88 in.
 2: 4.75 in.

Borehole Depth: 1: 29 ft.
 2: 51 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 29 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/17/2002

Total Depth: 80 ft.

Well Use: DOMESTIC

Driller's Name: BAPST, INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
BROKEN ROCK & CLAY	18	23
LIMESTONE	23	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 946252

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GREG ARNOLD
 County: CLARK
 Address: 3250 FAIRFIELD PI
 City:
 Location Number:
 Latitude: 39.859890

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.8761

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2:

Borehole Depth: 1: 150 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 60 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 5/29/2002

Aquifer Type: LIMESTONE
 Total Depth: 150 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 45 ft.
 Drawdown: 25 ft.

Test Rate: 10 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
CLAY & SAND	4	6
LIMESTONE	6	78
SANDSTONE	78	82
LIMESTONE	82	92
SHALE	92	98
LIMESTONE	98	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 954471

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY ROSS
 County: CLARK
 Address: 6045 SPRINGFIELD-XENIA RD
 City:
 Location Number:
 Latitude: 39.839320

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.86422

Section Number: 16
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 6 in.
 2:

Borehole Depth: 1: 60 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 35 ft.
 2:

Casing Thickness: 1: 0.188 in.
 2:

Casing Height Above Ground: 2
 Date of Completion: 5/30/2003

Aquifer Type: LIMESTONE
 Total Depth: 60 ft.

Well Use: DOMESTIC

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 8 ft.
 Drawdown: 20 ft.

Test Rate: 20 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	15
GRAY CLAY	15	25
GRAY SAND	25	30
GRAVEL	30	35
GRAY LIMESTONE	35	60
WATER AT	40	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955726

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SCOTT WELLS
 County: CLARK
 Address: 3709 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.875380

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.88033

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.8 in.
 2:

Borehole Depth: 1: 68 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 26 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 11/4/2002

Aquifer Type: LIMESTONE
 Total Depth: 68 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 30 ft.
 Drawdown: 10 ft.

Test Rate: 15 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	68

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955776

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JERRY SCHMIDT
 County: CLARK
 Address: 4140 CHICO CT
 City:
 Location Number:
 Latitude: 39.865670

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.89266

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in.
 2:

Borehole Depth: 1: 90 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 32 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 1/8/2003

Total Depth: 90 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 55 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
CLAY & GRAVEL	6	14
LIMESTONE	14	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955796

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: NATE HIDDLESON
County: CLARK
Address: 4840 JACKSON RD W
City:
Location Number:
Latitude: 39.834710

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.90939

Section Number:
Lot Number:
Zip Code: 45323
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2:

Borehole Depth: 1: 126 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 126 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: GRAVEL

Date of Completion: 2/2/2003

Total Depth: 126 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 65 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY/SAND/GRAVEL	0	90
SAND	90	115
SAND & CLAY	115	120
GRAVEL	120	126

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955800

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KAREN ZYNDA
 County: CLARK
 Address: 4390 REBERT PI
 City:
 Location Number:
 Latitude: 39.866950

Township: MADRIVER

State: OH
 Location Map Year:
 Longitude: -83.89582

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in.
 2:

Borehole Depth: 1: 62 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 32 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 5/13/2003

Total Depth: 62 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 3 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
CLAY/SAND/GRAVEL	7	20
LIMESTONE	20	62
WATER AT	60	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 960630

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SANDY WEISS
 County: CLARK
 Address: 4697 ECHO HILLS DR
 City:
 Location Number:
 Latitude: 39.859030

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90614

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.75 in.

Borehole Depth: 1: 28 ft.
 2: 150 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:
 Date of Completion: 7/17/2003
 Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE
 Total Depth: 150 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 35 ft.
 Drawdown: 20 ft.

Test Rate: 15 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	18
LIMESTONE	18	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 962845

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE MUNDY

County: CLARK

Address: 4316 FAIRFIELD PI

City:

Location Number:

Latitude: 39.848930

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89853

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in.

2:

Borehole Depth: 1: 122 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 77 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 8/25/2003

Driller's Name: R. C. BARRY

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 122 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 73 ft.

Drawdown: 7 ft.

Test Rate: 18 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
FINE GRAVEL	2	45
GRAY CLAY	45	46
FINE GRAVEL	46	55
GRAY CLAY	55	61
SAND & GRAVEL	61	65
GRAY SHALE & LIMESTONE	65	85
LIMESTONE	85	122

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 963155

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ERIC WISE

County: CLARK

Address: 5701 JACKSON RD W

City:

Location Number:

Latitude: 39.848330

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.92394

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 64 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 58 ft.

2:

Casing Thickness: 1: 0.31 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/6/2006

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Type:

Set Between: From: 58 ft. To: 64 ft.

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type:

Total Depth: 64 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: AGRIC/IRRIG

Screen Length: 6 ft.

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 11 ft.

Test Rate: 30 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
SAND	3	10
BROWN SANDY CLAY	10	25
BLUE CLAY	25	52
SAND & GRAVEL	52	64
BLUE CLAY	64	72
WATER AT	64	64

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 969150

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOM RAPER

County: CLARK

Address: 4757 BROADWAY RD

City:

Location Number:

Latitude: 39.876610

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90381

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 52 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1

Date of Completion: 4/27/2004

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 20 ft.

Test Rate: 12 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	12
GRAY CLAY & GUMBO	12	26
GRAVEL & SAND	26	34
GRAY CLAY & GRAVEL	34	48
LIMESTONE	48	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 971975

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ED HART

County: CLARK

Address: 3950 OLD MILL RD

City:

Location Number:

Latitude: 39.870750

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.8782

Section Number: 18

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4 in.

Borehole Depth: 1: 80 ft.
 2: 180 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 80 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1

Date of Completion: 3/18/2004

Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE

Total Depth: 180 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 50 ft.

Drawdown:

Test Rate: 7 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
LIMESTONE	0	180

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 973489

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM KELLY

County: CLARK

Address: 5220 TECUMSEH RD S

City:

Location Number:

Latitude: 39.852610

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88911

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.87 in.
 2: 4.5 in.

Borehole Depth: 1: 85 ft.
 2: 160 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 85 ft.
 2:

Casing Thickness: 1: 0.16 in.
 2:

Casing Height Above Ground: 1

Aquifer Type:

Date of Completion: 4/26/2005

Total Depth: 160 ft.

Well Use: DOMESTIC

Driller's Name: EATON WELL DRILLING INC

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 5 gpm

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Drawdown: 40 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	11
GRAVEL & CLAY	11	82
LIMESTONE	82	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 977091

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ORIGINAL OWNER AND LOCATION

Original Owner Name: TLW CONST.

County: CLARK

Address: 2910 JACKSON RD W

City:

Location Number:

Latitude: 39.831670

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87241

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 42 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 42 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 11/29/2004

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown: 10 ft.

COMMENTS:

Aquifer Type: LIMESTONE

Total Depth: 95 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & SAND	3	29
SAND & GRAVEL	29	37
LIMESTONE	37	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 977115

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JEFF YOHNER
 County: CLARK
 Address: 6194 FOWLER RD
 City:
 Location Number:
 Latitude: 39.839861

Township: MADRIVER

State: OH
 Location Map Year:
 Longitude: -83.919583

Section Number:
 Lot Number:
 Zip Code: 45323
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 44 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 39 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type:

Date of Completion: 10/25/2004

Total Depth: 44 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size: 0.06 in.

Screen Length: 5 ft.

Type:

Material:

Set Between: From: 39 ft. To: 44 ft.

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 8 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY/SAND/GRAVEL	8	37
SAND & GRAVEL	37	44

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 981218

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT BEARD
 County: CLARK
 Address: 4505 TECUMSEH S
 City:
 Location Number:
 Latitude: 39.8625

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87306

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4 in.

Borehole Depth: 1: 80 ft.
 2: 160 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 80 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 8/18/2004
 Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE
 Total Depth: 160 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed:

WELL TEST DETAILS

Static Water Level: 104 ft.
 Drawdown:

Test Rate: 10 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	19
LIMESTONE	19	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 981219

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEWART YOUNG
 County: CLARK
 Address: 3081 HUSTEAD RD
 City:
 Location Number:
 Latitude: 39.84

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.875

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4 in.

Borehole Depth: 1: 46 ft.
 2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 46 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 8/18/2004
 Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE
 Total Depth: 140 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 17 ft.
 Drawdown:

Test Rate: 15 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	9
GRAVELLY CLAY	9	37
BROKEN STONE	37	44
LIMESTONE	44	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 988176

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY BROOKLINS
 County: CLARK
 Address: 4062 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.868555

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.879194

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2: 4.75 in.

Borehole Depth: 1: 127 ft.
 2: 42 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 42 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1.30

Aquifer Type:
 Total Depth: 127 ft.

Well Use: DOMESTIC

Date of Completion: 2/7/2005

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 84 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 25 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
LIMESTONE	9	61
SHALE	61	83
LIMESTONE	83	127

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 990726

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: THOMAS KAHLERT
 County: CLARK
 Address: 3442 TECUMSEH RD S
 City:
 Location Number:
 Latitude: 39.877389

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.892472

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.88 in.

Borehole Depth: 1: 46 ft.
 2: 49 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 46 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type:

Date of Completion: 5/10/2005

Total Depth: 95 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
CLAY/SAND/GRAVEL	12	43
LIMESTONE	43	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 990771

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
County: CLARK
Address: 4758 HAGAN RD
City:
Location Number:
Latitude: 39.860530

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.90826

Section Number:
Lot Number:
Zip Code: 45502
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2:

Borehole Depth: 1: 29 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 29 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 9/22/2005

Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
GRAVEL	2	5
LIMESTONE	5	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1002922

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TLW CONST

County: CLARK

Address: 4250 BROADWAY RD

City:

Location Number:

Latitude: 39.877860

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89458

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2: 4.88 in.

Borehole Depth: 1: 38 ft.
2: 59 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 38 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Date of Completion: 5/5/2006

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 97 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 28 ft.

Drawdown: 15 ft.

Test Rate: 20 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL & CLAY	12	34
LIMESTONE	34	97
WATER AT	94	94

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1002932

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
County: CLARK
Address: 4770 ECHO HILLS DR
City:
Location Number:
Latitude: 39.859722

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.905722

Section Number:
Lot Number:
Zip Code: 45502
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2: 4.88 in.

Borehole Depth: 1: 27 ft.
2: 83 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 27 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 8/24/2006

Total Depth: 110 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 25 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
GRAVEL & CLAY	3	20
LIMESTONE	20	108
SHALE	108	110
WATER AT	104	104

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1003792

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT LYONS
County: CLARK
Address: 5429 FOWLER RD
City:
Location Number:
Latitude: 39.851580

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.92167

Section Number:
Lot Number:
Zip Code: 45504
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2:

Borehole Depth: 1: 45 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 42 ft.
2:

Casing Thickness: 1: 0.26 in.
2:

Casing Height Above Ground: 1

Aquifer Type: SAND & GRAVEL

Date of Completion: 6/12/2006

Total Depth: 45 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size: 0.08 in.

Screen Length: 3 ft.

Type:

Material:

Set Between: From: 42 ft. To: 45 ft.

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 5 ft.

Test Rate: 20 gpm

Drawdown: 10 ft.

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
GRAVEL & CLAY	3	39
SAND & GRAVEL	39	45
WATER AT	43	43

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1005183

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DOROTHY DRAKE
 County: CLARK
 Address: 5252 FAIRFIELD PI
 City:
 Location Number:
 Latitude: 39.848639

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.915861

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 107 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 102 ft.
 2:

Casing Thickness: 1: 0.26 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: SAND & GRAVEL

Date of Completion: 10/4/2006

Total Depth: 107 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size: 0.085 in.

Screen Length: 5 ft.

Type:

Material:

Set Between: From: 102 ft. To: 107 ft.

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 38 ft.

Test Rate: 50 gpm

[Associated Reports](#)

Drawdown: 6 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
SAND	8	61
CLAY	61	88
SAND & GRAVEL	88	107
WATER AT	103	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1006655

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KYLE PETERSON
 County: CLARK
 Address: 4676 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.863067

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.903467

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8 in.
 2: 5 in.

Borehole Depth: 1: 25 ft.
 2: 70 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 12/30/2007

Aquifer Type: LIMESTONE
 Total Depth: 70 ft.

Well Use: DOMESTIC

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 30 ft.
 Drawdown: 15 ft.

Test Rate: 20 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
WHITE LIMESTONE	9	36
BROWN LIMESTONE	36	67
SHALE	67	70
WATER AT	45	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1007324

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ARNOLD PENCE
 County: CLARK
 Address: 3507 TECUMSEH RD S
 City:
 Location Number:
 Latitude: 39.876139

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.892333

Section Number:
 Lot Number:
 Zip Code: 45505
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.8 in.
 2:

Borehole Depth: 1: 40 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 40 ft.
 2:

Casing Thickness: 1: 0.26 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 11/1/2007
 Driller's Name: WHITE WELL DRILLING

Aquifer Type: LIMESTONE
 Total Depth: 58 ft.

Well Use: DOMESTIC

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 13 ft.
 Drawdown: 20 ft.

Test Rate: 15 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
ROCK & GRAVEL	8	34
BROKEN LIMESTONE	34	40
LIMESTONE	40	58
WATER AT	40	58

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1009497

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DIANA HENDERSON

County: CLARK

Township: MADRIVER

Section Number:

Address: 5545 FAIRFIELD PI

Lot Number:

City:

State: OH

Zip Code: 45323

Location Number:

Location Map Year:

Location Area:

Latitude: 39.848617

Longitude: -83.921333

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7 in.

Borehole Depth: 1: 61 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 61 ft.

Casing Thickness: 1: 0.26 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SAND & GRAVEL

Date of Completion: 8/4/2008

Total Depth: 61 ft.

Well Use: DOMESTIC

Driller's Name: STAGE INC. DBA R.C. BARRY

Screen Diameter:

Slot Size:

Screen Length: 3 ft.

Type:

Material:

Set Between: From: 56 ft. To: 59 ft.

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 21 ft.

Test Rate: 40 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	5
SAND & GRAVEL	5	8
GRAVEL & CLAY	8	12
SAND & GRAVEL	12	20
CLAY/SAND/GRAVEL	20	40
COARSE SAND & GRAVEL	40	60
CLAY	60	61
WATER AT	61	61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1011292

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MADDEN CONST.

County: CLARK

Address: 4720 JEREMY

City:

Location Number:

Latitude: 39.861333

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.905056

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2: 4.88 in.

Borehole Depth: 1: 60 ft.
2: 73 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 60 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Date of Completion: 5/27/2010

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 80 ft.

Drawdown: 20 ft.

COMMENTS:

Aquifer Type: LIMESTONE

Total Depth: 133 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 25 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	133
WATER AT	130	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1011299

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4741 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.8625

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90489

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.88 in.

Borehole Depth: 1: 68 ft.
 2: 69 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 68 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 11/3/2009

Total Depth: 137 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 93 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
CLAY & GRAVEL	11	15
LIMESTONE	15	137
WATER AT	130	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1012451

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ORIGINAL OWNER AND LOCATION

Original Owner Name: M VERBILLION
 County: CLARK
 Address: 5256 HAGAN
 City:
 Location Number:
 Latitude: 39.853020

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90446

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8 in.
 2: 5 in.

Borehole Depth: 1: 25 ft.
 2: 77 ft.

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.188 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 10/6/2009

Total Depth: 77 ft.

Well Use: AGRIC/IRRIG

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 28 ft.

Test Rate: 25 gpm

Associated Reports

Drawdown: 5 ft.

Test Duration: 6 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	18
LIMESTONE	18	21
SHALE	21	25
LIMESTONE & SHALE	25	34
WHITE LIMESTONE	34	48
BROWN LIMESTONE	48	70
LIMESTONE	70	77
WATER AT	56	57
WATER AT	70	71

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1013576

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DEBI SMITH

County: CLARK

Address: 4318 REBERT PI

City:

Location Number:

Latitude: 39.867333

Township: BETHEL

State: OH

Location Map Year:

Longitude: -83.895472

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.88 in.

Borehole Depth: 1: 27 ft.
 2: 54 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 9/27/2010

Total Depth: 81 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	15
LIMESTONE	15	81
WATER AT	78	79

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1013578

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4799 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.862389

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90625

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.88 in.

Borehole Depth: 1: 60 ft.
 2: 70 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 60 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 9/1/2010

Total Depth: 130 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	12
LIMESTONE	12	130
WATER AT	127	127

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2006807

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOM HIPP

County: CLARK

Township: MADRIVER

Section Number:

Address: 5533 FOWLER RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.85

Longitude: -83.920278

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

Borehole Depth: 1: 54 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 52 ft.

Casing Thickness: 1: 0.327 in.

2:

2:

2:

Casing Height Above Ground: 1.30

Aquifer Type: GRAVEL & SAND

Date of Completion: 10/26/2006

Total Depth: 54 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter: 5 in.

Slot Size: 0.05 in.

Screen Length: 2 ft.

Type: LOUVERED

Material: PVC

Set Between: From: 52 ft. To: 54 ft.

Gravel Pack Material/Size: PEAGRAVEL

Vol/Wt Used: 400

Method of Installation: Poured (gravity)

Placed: FROM: 50 ft. TO: 54 ft.

Grout Material/Size: Bentonite/polymer slurry

Vol/Wt Used: 350

Method of Installation: Pumped w/Tremie pipe

Placed TO: 50 ft.

WELL TEST DETAILS

Static Water Level: 12 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 35 ft.

Test Duration: 2 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	7
GRAY CREVICY CLAY	7	50
GRAY-BROWN CRUMBLY GRAVEL & SAND	50	54
WATER AT	52	54

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2010621

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ORIGINAL OWNER AND LOCATION

Original Owner Name: SCHUMACHER HOMES

County: CLARK

Township: MADRIVER

Section Number:

Address: 4618 SULLIVAN RD

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.863150

Longitude: -83.90246

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.5 in.
 2: 4.5 in.

Borehole Depth: 1: 28 ft.
 2: 60 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 6/27/2007

Total Depth: 60 ft.

Driller's Name: BAPST, INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 130#

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 28 ft.

WELL TEST DETAILS

Static Water Level: 29 ft.

Test Rate: 15 gpm

Associated Reports

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAY	0	3
CLAY & GRAVEL	3	8
WHITE LIMESTONE	8	40
BROWN LIMESTONE	40	50
GRAY LIMESTONE	50	60
WATER AT	50	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2010647

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: AMERICAN RESIDENTIAL

County: CLARK

Township: MADRIVER

Section Number:

Address: 2751 HUSTEAD RD

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.839833

Longitude: -83.869361

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
2: 4.78 in.

Borehole Depth: 1: 45 ft.
2: 55 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 45 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/28/2007

Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 63 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 45 ft.

WELL TEST DETAILS

Static Water Level: 12 ft.

Test Rate: 35 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
SAND/CLAY/GRAVEL	10	21
CLAY & GRAVEL	21	40
LIMESTONE	40	100
WATER AT	97	99

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2011357

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RUTH HUNTER
 County: CLARK
 Address: 4755 BROADWAY RD
 City:
 Location Number:
 Latitude: 39.8761

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90391

Section Number: 25
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 54 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 54 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 2
 Date of Completion: 7/26/2007

Aquifer Type: LIMESTONE
 Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: QUINTER WELL DRILLING LLC

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size: Bentonite/polymer slurry
 Method of Installation: Pumped w/Tremie pipe

Vol/Wt Used: 75 Gallons
 Placed FROM: 54 ft.

WELL TEST DETAILS

Static Water Level: 28 ft.
 Drawdown: 10 ft.

Test Rate: 100 gpm
 Test Duration: 1.5 hrs.

[Associated Reports](#)

COMMENTS: CLEAR, GOOD TASTE, NO ODOR

WELL LOG

Formations	From	To
YELLOW SOFT CLAY	0	11
GRAY SOFT CLAY	11	44
WHITE SOFT LIMESTONE	44	52
GRAY SOLID LIMESTONE	52	100
WATER AT	79	98

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2011964

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT BACON
 County: CLARK
 Address: 6286 TECUMSEH RD S
 City:
 Location Number:
 Latitude: 39.836990

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.88769

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 60 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 60 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 8/20/2007

Aquifer Type: LIMESTONE
 Total Depth: 122 ft.

Well Use: DOMESTIC

Driller's Name: EATON WELL DRILLING INC

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size: Bentonite/cement slurry
 Method of Installation: Pumped w/Tremie pipe

Vol/Wt Used: 100#
 Placed FROM: 60 ft.

WELL TEST DETAILS

Static Water Level: 15 ft.
 Drawdown: 10 ft.

Test Rate: 20 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAY	0	8
LIMESTONE	8	122
WATER AT	122	122

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2012223

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY TURNER
 County: CLARK
 Address: 3698 REBERT PI
 City:
 Location Number:
 Latitude: 39.8765

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.885583

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2: 4.75 in.

Borehole Depth: 1: 47 ft.
 2: 92 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 47 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1.30
 Date of Completion: 8/27/2007

Aquifer Type: LIMESTONE
 Total Depth: 92 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 400#

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 47 ft.

WELL TEST DETAILS

Static Water Level: 37 ft.
 Drawdown: 40 ft.

Test Rate: 15 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN STICKY CLAY	0	12
GRAY CLAYEY CLAY	12	44
WHITE HARD LIMESTONE	44	92
WATER AT	90	92

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2012373

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4685 SULLIVAN DR
 City:
 Location Number:
 Latitude: 39.862806

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.904

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 141 ft.
 2: 81 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 60 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 9/12/2007

Total Depth: 141 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 84 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 60 ft.

WELL TEST DETAILS

Static Water Level: 90 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	141
WATER AT	133	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2014645

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KATHY TANKERSLEY

County: CLARK

Township: MADRIVER

Section Number:

Address: 4752 BROADWAY RD

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.877528

Longitude: -83.903778

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2: 4.75 in.

Borehole Depth: 1: 47 ft.
 2: 76 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 47 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1.30

Aquifer Type: LIMESTONE

Date of Completion: 11/27/2007

Total Depth: 76 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 350#

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 47 ft.

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 20 gpm

Associated Reports

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN STICKY CLAY	0	8
GRAY GRAVELLY SAND	8	28
GRAY CLAYEY CLAY	28	47
WHITE HARD LIMESTONE	47	76
WATER AT	47	76

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2014690

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: AMERICAN RESIDENTIAL

County: CLARK

Township: MADRIVER

Section Number:

Address: 4736 SULLIVAN RD

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.863167

Longitude: -83.904667

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 62 ft.
 2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 62 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 1/9/2008

Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 120 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 61 ft.

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	11
LIMESTONE	11	60
SHALE	60	67
LIMESTONE	67	140
WATER AT	134	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2015983

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4798 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.862861

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.906028

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 59 ft.
 2: 69 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 59 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 4/19/2008

Total Depth: 128 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 83 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 59 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Test Rate: 30 gpm

Associated Reports

Drawdown: 15 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	10
LIMESTONE	10	128
WATER AT	123	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2016262

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ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT COMPENT
 County: CLARK
 Address: 3372 HUSTEAD RD
 City:
 Location Number:
 Latitude: 39.840778

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.881194

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 27 ft.
 2: 102 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 5/2/2008

Total Depth: 102 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 38 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 27 ft.

WELL TEST DETAILS

Static Water Level: 8 ft.

Test Rate: 15 gpm

Associated Reports

Drawdown: 50 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	9
LIMESTONE	9	102
WATER AT	98	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2017103

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN PITSTICK
 County: CLARK
 Address: 4875 JACKSON RD W
 City:
 Location Number:
 Latitude: 39.834167

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.909194

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 110 ft.
 2: 170 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 110 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/23/2008

Total Depth: 170 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 155 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 110 ft.

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	30
GRAVEL/SAND/CLAY	30	101
CLAY	101	108
LIMESTONE	108	170
WATER AT	165	168

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2018180

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ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY SHANK

County: CLARK

Address: 4880 REBERT PI

City:

Location Number:

Latitude: 39.864333

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90825

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 48 ft.
 2: 92 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 48 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 8/20/2008

Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 68 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 48 ft.

WELL TEST DETAILS

Static Water Level: 75 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
CLAY & GRAVEL	11	16
LIMESTONE	16	32
SHALE	32	42
LIMESTONE	42	140
WATER AT	110	111
WATER AT	127	128

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2018464

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EUGENE MCCULLOUGH

County: CLARK

Township: MADRIVER

Section Number:

Address: 3185 OLD MILL RD

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.880722

Longitude: -83.881833

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 28 ft.
 2: 100 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 9/2/2008

Total Depth: 100 ft.

Well Use: AGRIC/IRRIG

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 40 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 28 ft.

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 15 gpm

Associated Reports

Drawdown: 10 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
CLAY & GRAVEL	7	14
LIMESTONE	14	100
WATER AT	96	97

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2021939

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JONATHON BARTON
 County: CLARK
 Address: 3035 TECUMSEH RD S
 City:
 Location Number:
 Latitude: 39.882417

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.89975

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 43 ft.
 2: 57 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 43 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 4/14/2009

Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 60 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 43 ft.

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY & SAND	8	38
LIMESTONE	38	100
WATER AT	88	89
WATER AT	95	96

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2022651

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT COMPENT
 County: CLARK
 Address: 3372 HUSTEAD RD
 City:
 Location Number:
 Latitude: 39.841306

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.879472

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 26 ft.
 2: 54 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 26 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 5/27/2009

Total Depth: 80 ft.

Well Use: AGRIC/IRRIG

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 37 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 26 ft.

WELL TEST DETAILS

Static Water Level: 1 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	16
LIMESTONE	16	80
WATER AT	68	69
WATER AT	78	79

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2022724

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TLW BUILDERS
 County: CLARK
 Address: 3619 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.874944

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.881444

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 28 ft.
 2: 90 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/24/2009

Total Depth: 90 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 39 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 28 ft.

WELL TEST DETAILS

Static Water Level: 22 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	10
LIMESTONE	10	90
WATER AT	86	87

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2022731

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LLOYD THOMPSON

County: CLARK

Township: MADRIVER

Section Number:

Address: 3912 OLD MILL RD

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.871472

Longitude: -83.879778

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 63 ft.
 2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 63 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/25/2009

Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 89 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 63 ft.

WELL TEST DETAILS

Static Water Level: 100 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 25 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	16
LIMESTONE	16	68
SHALE	68	100
LIMESTONE	100	140
WATER AT	139	139

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2023931

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DARREN GREEN

County: CLARK

Township: MADRIVER

Section Number:

Address: 4711 FAIRFIELD PI

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.847267

Longitude: -83.908917

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2: 4.75 in.

Borehole Depth: 1: 32 ft.
 2: 160 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 32 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1.30

Aquifer Type: SHALE

Date of Completion: 6/8/2009

Total Depth: 160 ft.

Well Use: AGRIC/IRRIG

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite pellets/chunks

Vol/Wt Used: 250

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 32 ft.

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 20 gpm

Associated Reports

Drawdown: 45 ft.

Test Duration: 2 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	12
GRAY SANDY SAND & GRAVEL	12	15
GRAY CLAYEY CLAY	15	32
WHITE SHALEY SHALE	32	160
WATER AT	147	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2025266

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DARRIN BARDNELL / TK CONSTRUCTORS
 County: CLARK Township: MADRIVER
 Address: 5421 FOWLER RD
 City: State: OH
 Location Number: Location Map Year:
 Latitude: 39.835556 Longitude: -83.919167

Section Number:
 Lot Number:
 Zip Code: 45323
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.25 in.	Borehole Depth: 1: 50 ft.	Depth to Bedrock:
2:	2:	
Casing Diameter: 1: 5 in.	Casing Length: 1: 50 ft.	Casing Thickness: 1: 0.265 in.
2:	2:	2:
Casing Height Above Ground: 1.60	Aquifer Type: GRAVEL	Well Use: DOMESTIC
Date of Completion: 11/30/2009	Total Depth: 53 ft.	
Driller's Name: WILEY WELL DRILLING, INC.		Screen Length: 3 ft.
Screen Diameter: 5 in.	Slot Size: 0.02 in.	
Type: CONTINUOUS WIRE WOUND	Material: PVC	
Set Between: From: 50 ft. To: 53 ft.		
Gravel Pack Material/Size: Quartz Gravel	Vol/Wt Used: 60 gal.	
Method of Installation: Poured (gravity)	Placed: FROM: 48 ft. TO: 54 ft.	
Grout Material/Size: Bentonite/polymer slurry	Vol/Wt Used: 208 gal.	
Method of Installation: Pumped w/Tremie pipe	Placed FROM: 48 ft.	

WELL TEST DETAILS

Static Water Level: 11 ft. Test Rate: 25 gpm
 Drawdown: 30 ft. Test Duration: 1 hrs.

Associated Reports

COMMENTS: SHADE CLOUDY FEW GRAINS

WELL LOG

Formations	From	To
CLAY	0	7
TAN GRAVEL	7	45
SANDY CLAY & GRAVEL	45	50
GRAVEL	50	53
CLAY	53	60
WATER AT	50	53

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2027772

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4777 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.862583

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.905444

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 62 ft.
 2: 78 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 62 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1
 Date of Completion: 7/9/2010

Aquifer Type: LIMESTONE
 Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 87 GALS.
 Placed FROM: 62 ft.

Method of Installation: Pumped w/Tremie pipe

WELL TEST DETAILS

Static Water Level: 85 ft.
 Drawdown: 20 ft.

Test Rate: 16 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
LIMESTONE	14	60
SHALE	60	87
LIMESTONE	87	140
WATER AT	135	137

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2029665

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ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT BOWLING
 County: CLARK
 Address: 5681 FOWLER RD
 City:
 Location Number:
 Latitude: 39.847639

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.921

Section Number:
 Lot Number:
 Zip Code: 45323
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2:

Borehole Depth: 1: 52 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 47 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: GRAVEL

Well Use: DOMESTIC

Date of Completion: 10/19/2010

Total Depth: 52 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter: 5 in.

Slot Size: 0.06 in.

Screen Length: 5 ft.

Type: CONTINUOUS WIRE WOUND

Material: STAINLESS STEEL

Set Between: From: 48 ft. To: 52 ft.

Gravel Pack Material/Size: PEA GRAVEL

Vol/Wt Used: 300 LBS

Method of Installation: Tremie

Placed: FROM: 46 ft. TO: 52 ft.

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 65 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 46 ft.

WELL TEST DETAILS

Static Water Level: 39 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown: 3 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	45
GRAVEL	45	52
WATER AT	48	52

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2032614

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER
 County: CLARK
 Address: 4715 JEREMY AVE
 City:
 Location Number:
 Latitude: 39.861083

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.904528

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
 2: 4.78 in.

Borehole Depth: 1: 56 ft.
 2: 66 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 56 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/2/2011

Total Depth: 122 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 80 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 56 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	122
WATER AT	118	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2034569

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE FAUST

County: CLARK

Address: 3580 FAIRFIELD PI

City:

Location Number:

Latitude: 39.854889

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.882417

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2: 4.78 in.

Borehole Depth: 1: 42 ft.

2: 44 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 42 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 9/22/2011

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 86 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: 80 GALS.

Placed FROM: 42 ft.

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 45 ft.

Drawdown: 5 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
CLAY & GRAVEL	9	39
LIMESTONE	39	86
WATER AT	83	84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2035966

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MATT / WHITNEY DEARTH

County: CLARK

Township: MADRIVER

Address: 4646 SULLIVAN SR

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.863278

Longitude: -83.903333

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

Borehole Depth: 1: 67 ft.

Depth to Bedrock:

2: 4.78 in.

2: 70 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 67 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 12/29/2011

Total Depth: 137 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 127 GALS

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 67 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	137
WATER AT	134	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2036349

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
County: CLARK
Address: 4663 SULLIVAN RD
City:
Location Number:
Latitude: 39.862972

Township: MADRIVER
State: OH
Location Map Year:
Longitude: -83.903611

Section Number:
Lot Number:
Zip Code: 45502
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
2: 4.78 in.

Borehole Depth: 1: 67 ft.
2: 71 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 67 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 1/30/2012

Total Depth: 138 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 128 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 67 ft.

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	138
WATER AT	135	136

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2040077

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4818 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.862278

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.907028

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
 2: 4.78 in.

Borehole Depth: 1: 60 ft.
 2: 62 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 30 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 10/5/2012

Total Depth: 122 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 115 GALS. / 320 LBS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 60 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	44
SHALE	44	60
LIMESTONE	60	122
WATER AT	114	115

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2041204

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GOTHARD PUMP SERVICE

County: CLARK

Township: MADRIVER

Address: 4971 REBERT PI

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.862361

Longitude: -83.908278

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

Borehole Depth: 1: 56 ft.

Depth to Bedrock:

2: 4.78 in.

2: 53 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 56 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 12/14/2012

Total Depth: 109 ft.

Well Use: AGRIC/IRRIG

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 100 GALS. / 300 LBS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 56 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	20
LIMESTONE	20	109
WATER AT	102	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2044329

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ORIGINAL OWNER AND LOCATION

Original Owner Name: WADE BROWER
 County: CLARK
 Address: 4283 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.859350

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.87524

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2: 4.75 in.

Borehole Depth: 1: 39 ft.
 2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 39 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1.30
 Date of Completion: 7/22/2013

Aquifer Type: LIMESTONE
 Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 150#/20GAL-3 BAGS

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 39 ft.

WELL TEST DETAILS

Static Water Level: 90 ft.
 Drawdown: 10 ft.

Test Rate: 20 gpm
 Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	3
WHITE LIMEY LIMESTONE	3	140
WATER AT	140	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2044521

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KIMBERLY HILLIARD

County: CLARK

Township: MADRIVER

Section Number:

Address: 4624 DAYTON-SPRINGFIELD RD

Lot Number:

City:

State: OH

Zip Code: 45502

Location Number:

Location Map Year:

Location Area:

Latitude: 39.875640

Longitude: -83.900318

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
2: 4.75 in.

Borehole Depth: 1: 37 ft.
2: 150 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 37 ft.
2:

Casing Thickness: 1: 0.327 in.
2:

Casing Height Above Ground: 1.30

Aquifer Type: LIMESTONE

Date of Completion: 4/30/2013

Total Depth: 150 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 250#95GALPER5BAGS

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 37 ft.

WELL TEST DETAILS

Static Water Level: 65 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 25 ft.

Test Duration: 2 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN DRY SOIL	0	3
GRAY LIMEY LIMESTONE	3	20
YELLOW LIMEY LIMESTONE	20	65
GRAY LIMEY LIMESTONE	65	70
WHITE LIMEY LIMESTONE	70	100
YELLOW LIMEY LIMESTONE	100	130
GRAY LIMEY SHALE & LIMESTONE	130	150
WATER AT	90	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2046915

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER
 County: CLARK
 Address: 5779 FOWLER RD
 City:
 Location Number:
 Latitude: 39.846222

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.921

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
 2:

Borehole Depth: 1: 77 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 72 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: GRAVEL

Date of Completion: 3/26/2014

Total Depth: 77 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter: 5 in.

Slot Size: 0.09 in.

Screen Length: 5 ft.

Type: MACHINE SLOTTED

Material: PVC

Set Between: From: 72 ft. To: 77 ft.

Gravel Pack Material/Size: PEA GRAVEL

Vol/Wt Used: 275 LBS.

Method of Installation: Tremie

Placed: FROM: 70 ft. TO: 77 ft.

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 135 GALS. / 375 LBS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 70 ft.

WELL TEST DETAILS

Static Water Level: 42 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
SAND & CLAY	2	29
CLAY & GRAVEL	29	72
GRAVEL	72	77
WATER AT	72	77

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2046916

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER

County: CLARK

Address: 4584 SULLIVAN RD

City:

Location Number:

Latitude: 39.863111

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.901972

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2: 4.78 in.

Borehole Depth: 1: 74 ft.

2: 72 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 74 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 3/27/2014

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 146 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 140 GALS. / 395 LBS.

Placed FROM: 74 ft.

WELL TEST DETAILS

Static Water Level: 100 ft.

Drawdown: 10 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	146
WATER AT	143	143

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2047741

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GREG GARMAN
 County: CLARK
 Address: 2989 FAIRFIELD PI
 City:
 Location Number:
 Latitude: 39.859397

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.868597

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
 2: 4.75 in.

Borehole Depth: 1: 29 ft.
 2: 120 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 29 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1.50

Aquifer Type: LIMESTONE

Date of Completion: 5/22/2014

Total Depth: 120 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 66g/150#

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 29 ft.

WELL TEST DETAILS

Static Water Level: 28 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 35 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	14
WHITE LIMESTONE	14	120
WATER AT	118	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2048482

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4780 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.863056

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.905472

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
 2: 4.78 in.

Borehole Depth: 1: 63 ft.
 2: 67 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 63 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 8/5/2014

Total Depth: 130 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 120 GALS. / 330 LBS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 63 ft.

WELL TEST DETAILS

Static Water Level: 87 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	130
WATER AT	126	127

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2050744

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HELGA MOWERY
 County: CLARK
 Address: 3904 OLD MILL RD
 City:
 Location Number:
 Latitude: 39.871472

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.879778

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
 2: 4.78 in.

Borehole Depth: 1: 61 ft.
 2: 79 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 61 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 1/15/2015

Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 120 GALS. / 330 LBS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 61 ft.

WELL TEST DETAILS

Static Water Level: 90 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	1.60
LIMESTONE	1.60	57
SHALE	57	73
LIMESTONE	73	140
WATER AT	62	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2051481

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER
 County: CLARK
 Address: 5755 FOWLER RD
 City:
 Location Number:
 Latitude: 39.846611

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.920972

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
 2:

Borehole Depth: 1: 81 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 77 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: GRAVEL & SAND

Date of Completion: 4/1/2015

Total Depth: 81 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter: 5 in.

Slot Size: 0.085 in.

Screen Length: 4 ft.

Type: MACHINE SLOTTED

Material: PVC

Set Between: From: 59 ft. To: 63 ft.

Gravel Pack Material/Size: PEA GRAVEL

Vol/Wt Used: 250 LBS.

Method of Installation: Tremie

Placed: FROM: 57 ft. TO: 63 ft.

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 110 GALS. / 300 LBS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 57 ft.

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
SAND & CLAY	7	27
CLAY & GRAVEL	27	55
GRAVEL & SAND	55	66
CLAY	66	81
WATER AT	59	63

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 9912042

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: L.E.VALLEY DAIRY CO.

County: CLARK

Township: MADRIVER

Section Number: 19

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 518

Location Map Year: 1945

Location Area:

Latitude: 39.871993

Longitude: -83.891155

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 210 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 10 in.

Casing Length: 1: 43 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 10/13/1950

Total Depth: 210 ft.

Driller's Name: LAYNE-OHIO, COLS

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 23 ft.

Test Rate: 350 gpm

[Associated Reports](#)

Drawdown: 99 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
HARDPAN	3	8
MUDDY SAND	8	41
GRAY LIMESTONE	41	55
BREAK	55	56
GRAY SANDY LIMESTONE	56	75
BROWN HARD LIMESTONE	75	85
GRAY LIMESTONE	85	95
BREAK	95	96
GRAY LIMESTONE	96	108
BREAK	108	109
SANDY SHALE	109	116
GRAY LIMESTONE	116	150
BROWN LIMESTONE	150	152
RED HARD LIMESTONE	152	155
BROWN LIMESTONE	155	157
GRAY SANDY LIMESTONE	157	195
CREVICE	195	200
GRAY SANDY SHALE	200	205
MUDDY SHALE	205	210

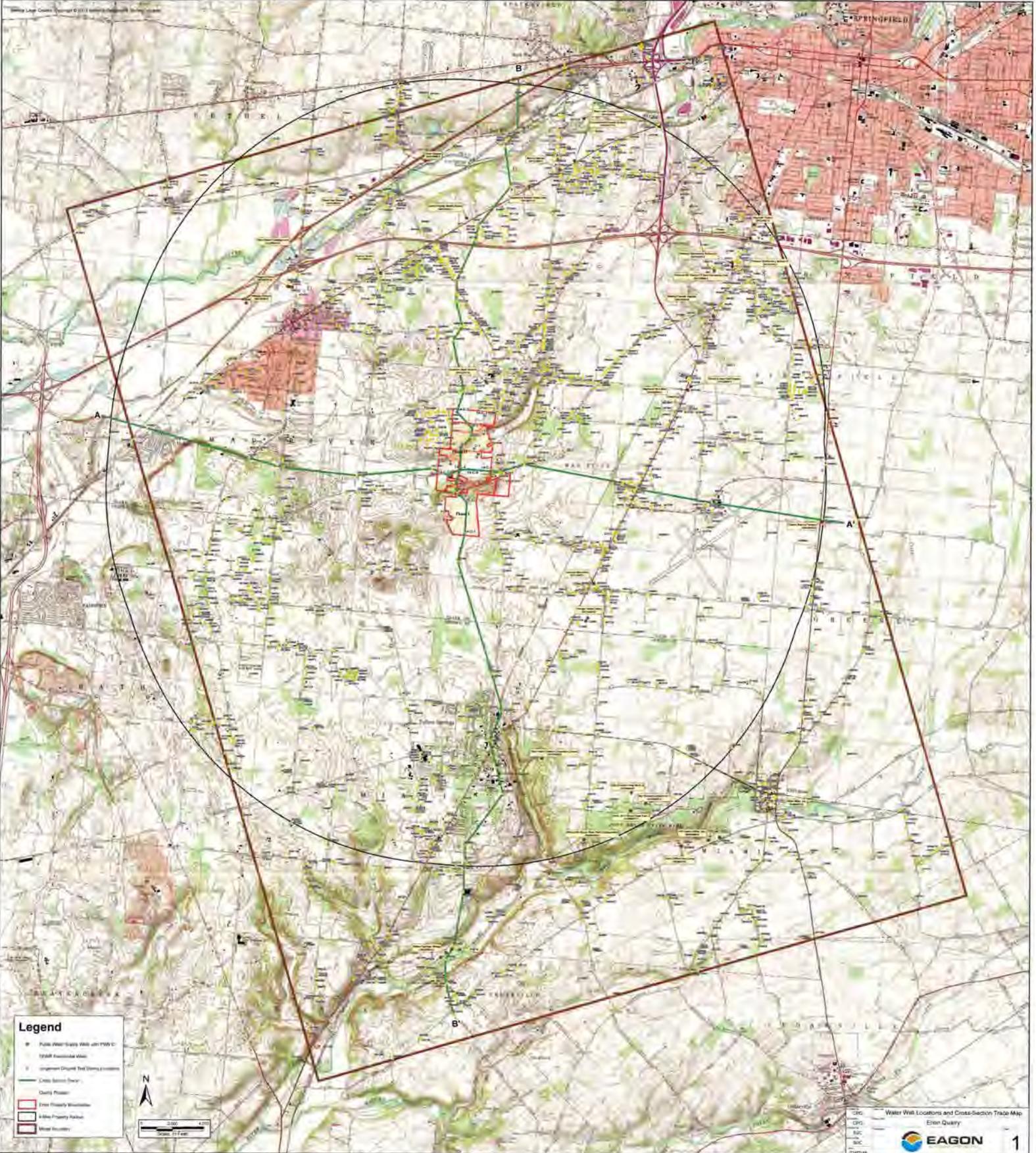
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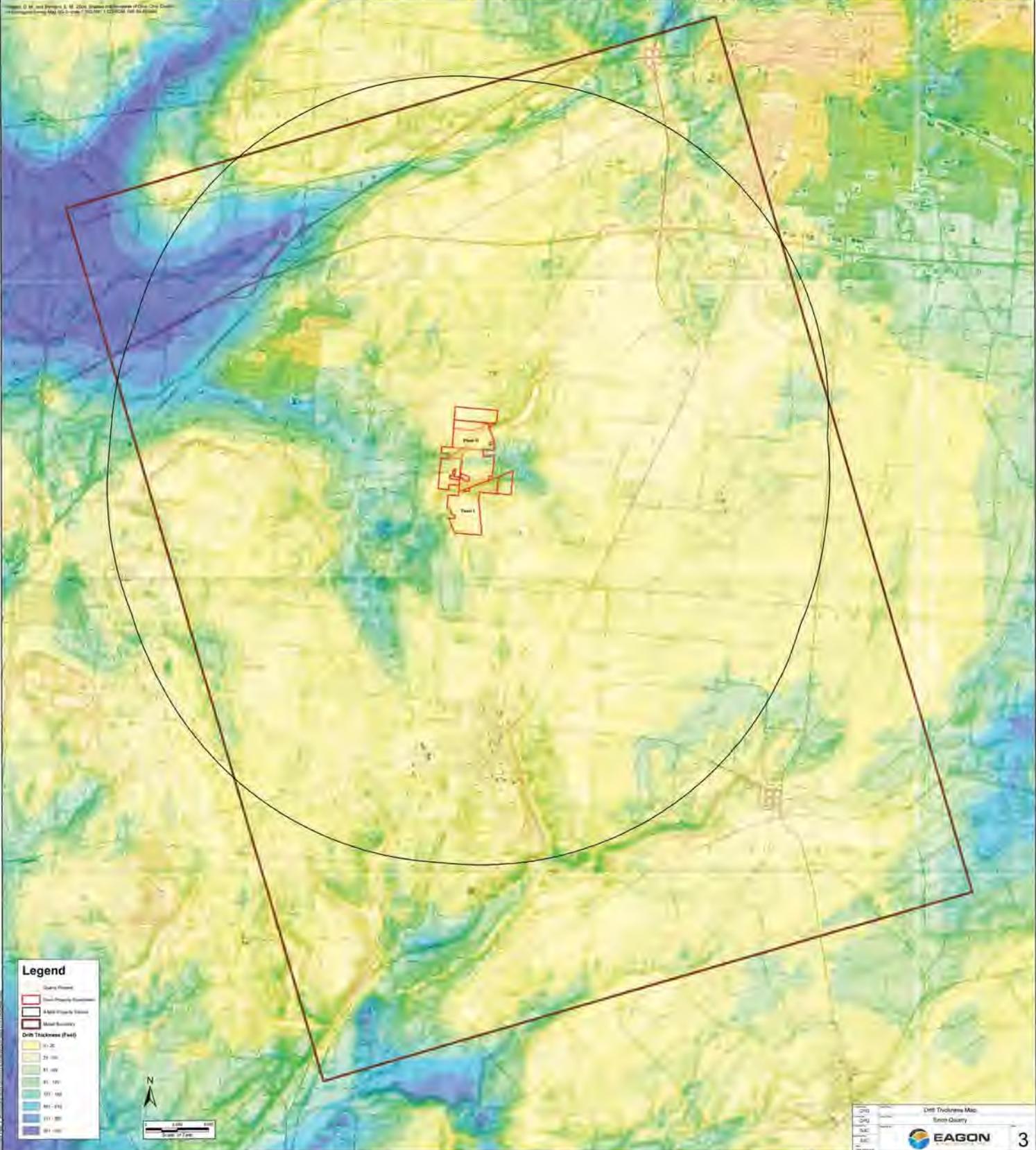
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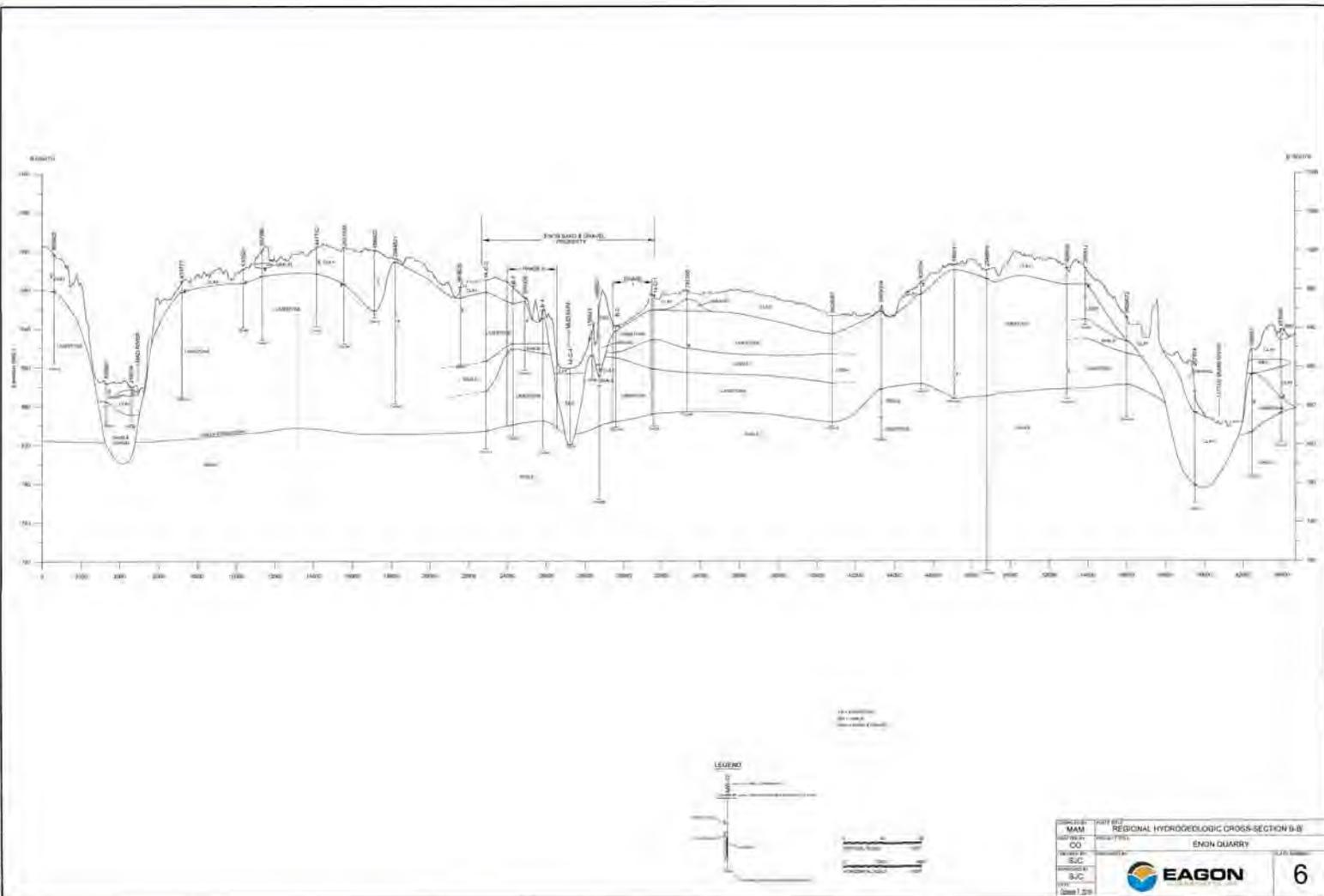


Legend

- Public Water Supply Wells with PWSID
- PWSID Private Well
- Unapproved Drilled Test Utility Location
- Cross Section Trace
- Quality Point
- Egan Property Boundary
- City Property Boundary
- Water Boundary

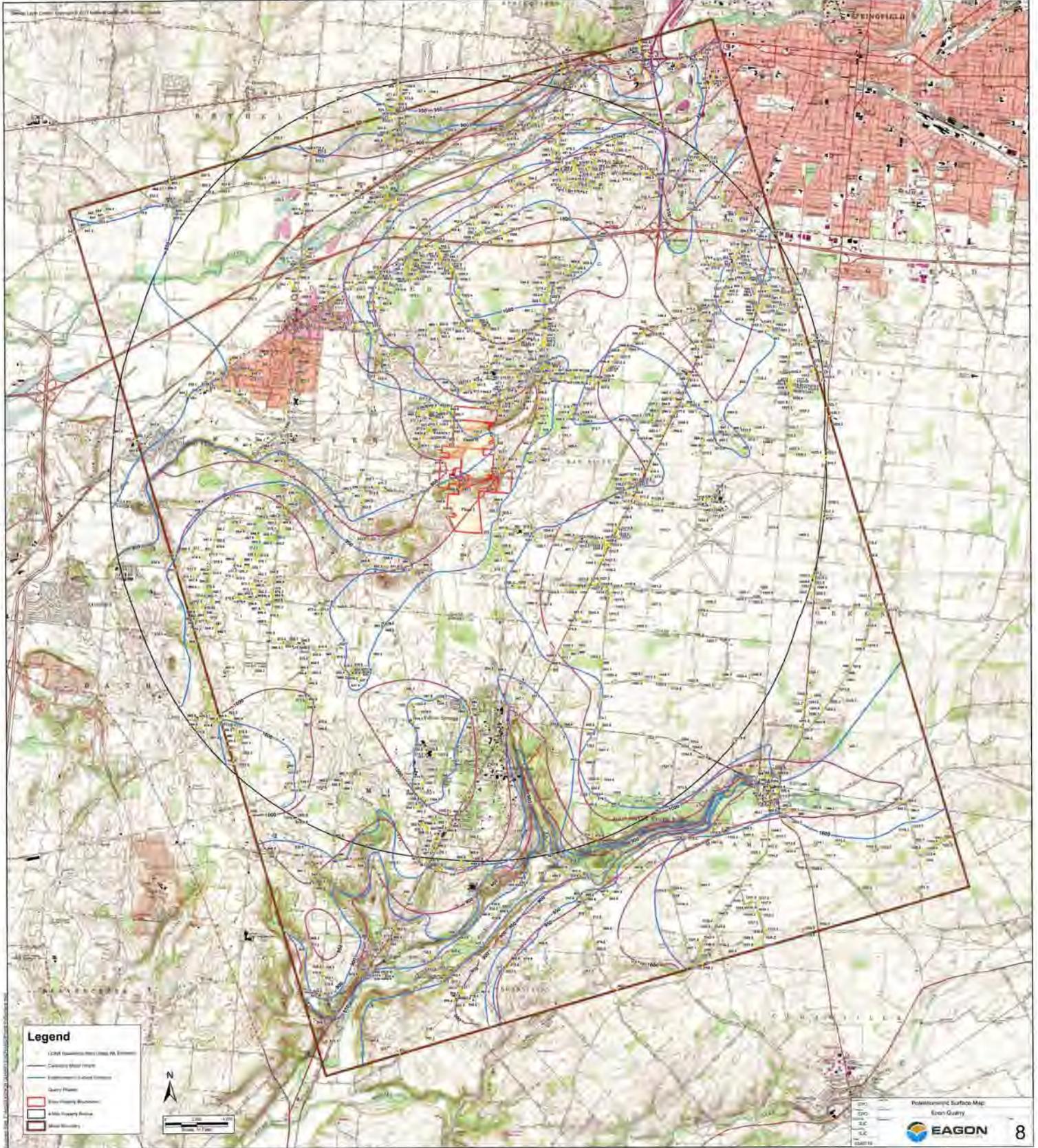


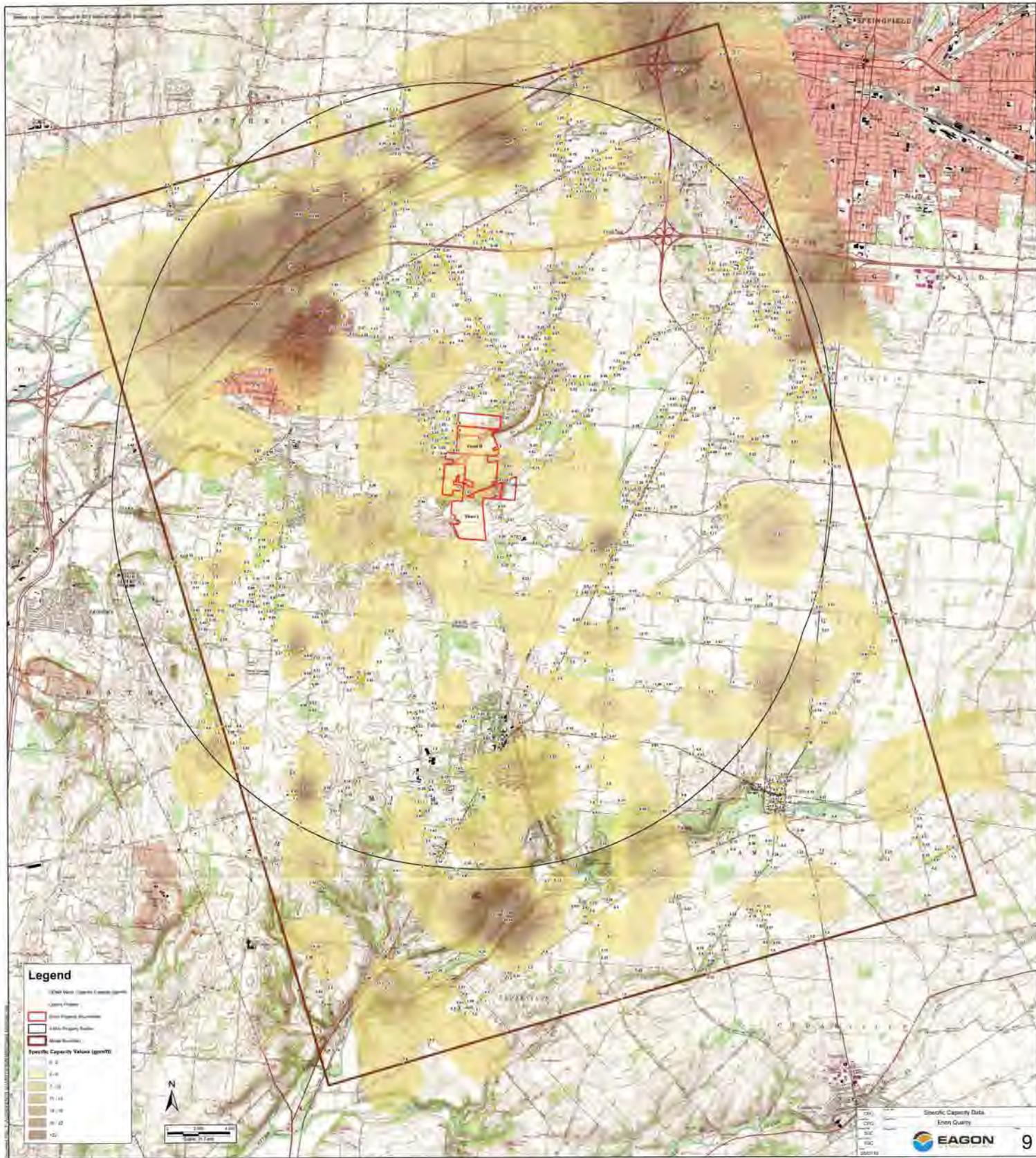




PROJECT NO.	9-B	REGIONAL HYDROGEOLOGIC CROSS-SECTION 9-B
MAM	CO	ENON QUARRY
DATE	1/2014	
SCALE	1" = 100'	
BY	J.C.	
CHECKED BY	J.C.	
DATE	1/2014	



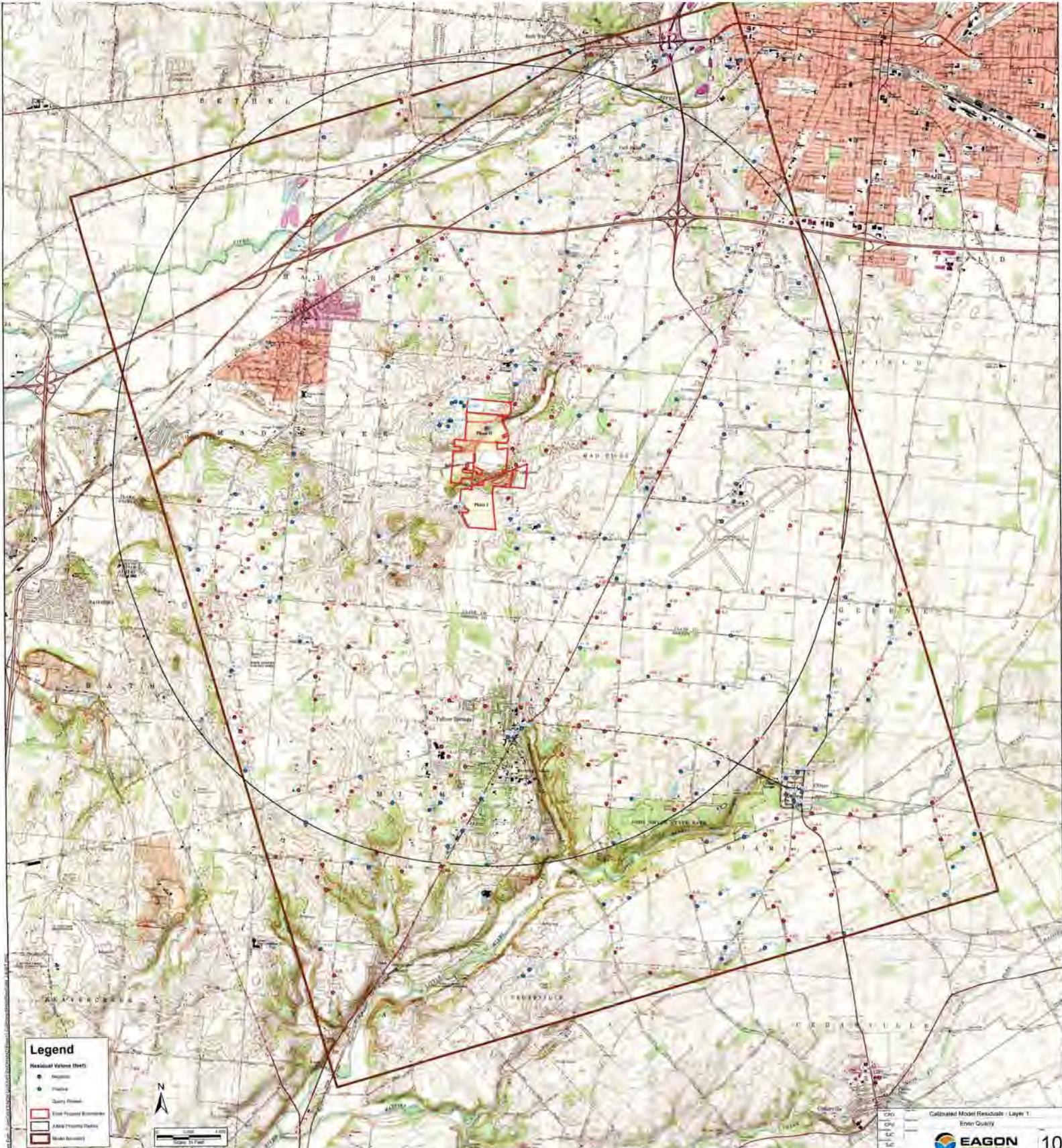




Legend

- Specific Capacity Values (gpm/ft)
- 0-2
- 2-4
- 4-7
- 7-14
- 14-18
- 18-22
- >22
- County Boundary
- City Boundary
- Water Property Boundary
- Water Features

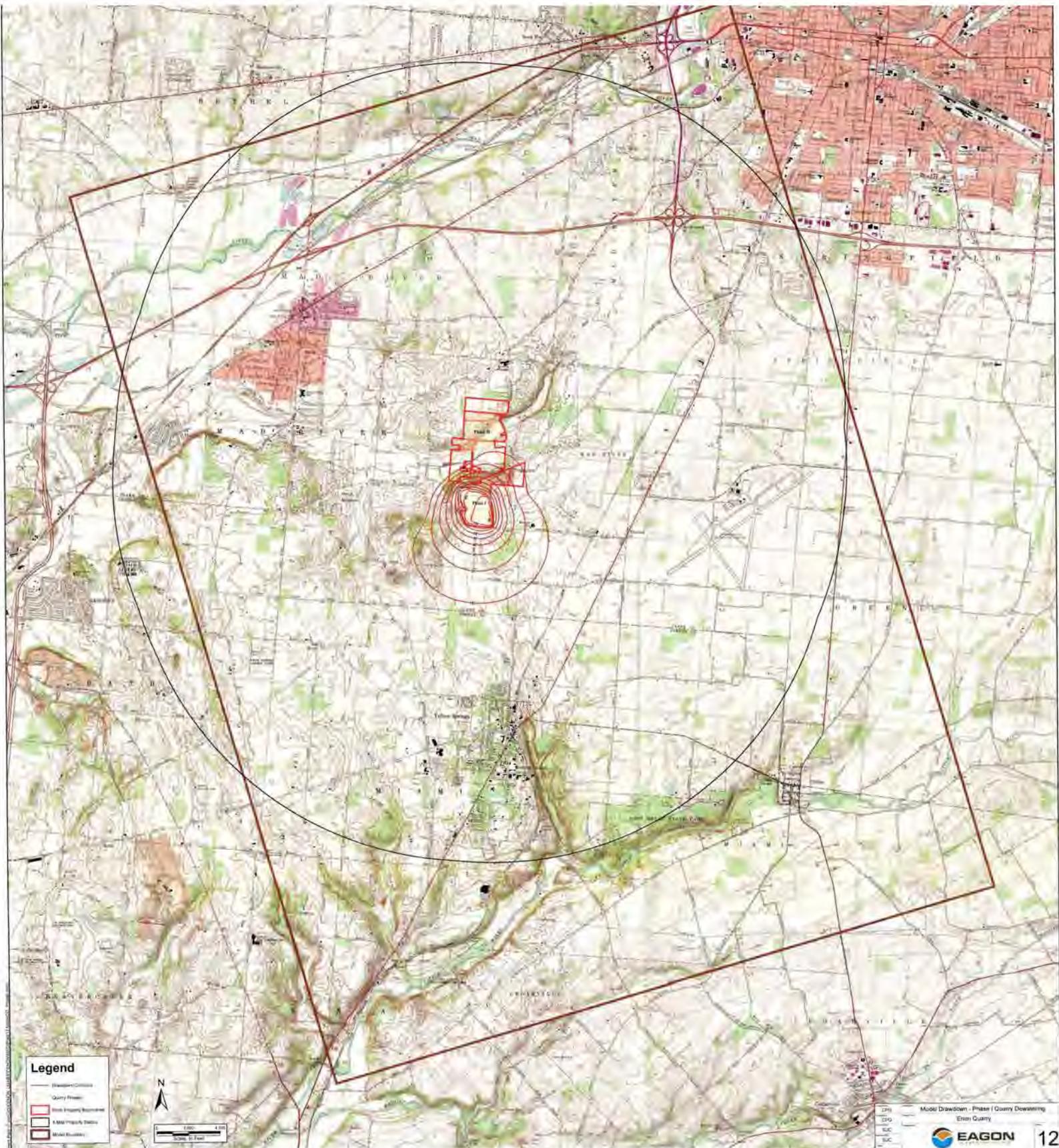




Legend

- Residual Values (ft):
 - Positive
 - Negative
 - Zero Point
- Line Priority Boundary
- Area Priority Boundary
- Model Boundary





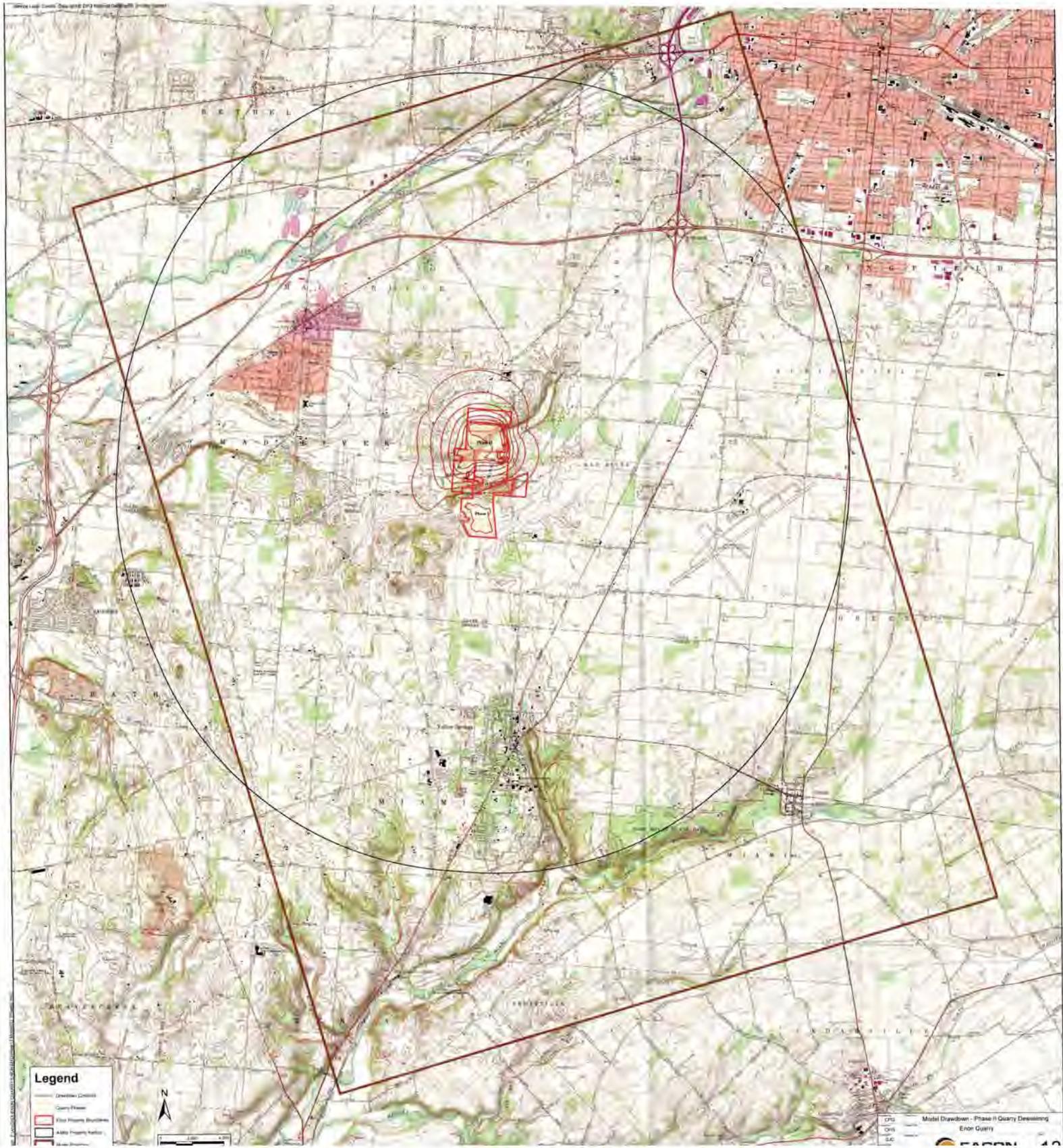
Legend

- Obstacles/Contours
- Quarry Perimeter
- 1000' Property Boundary
- 1/2 Mile Property Boundary
- Model Boundary



Model Drawdown - Phase I Quarry Dewatering
 Erem Quarry

12

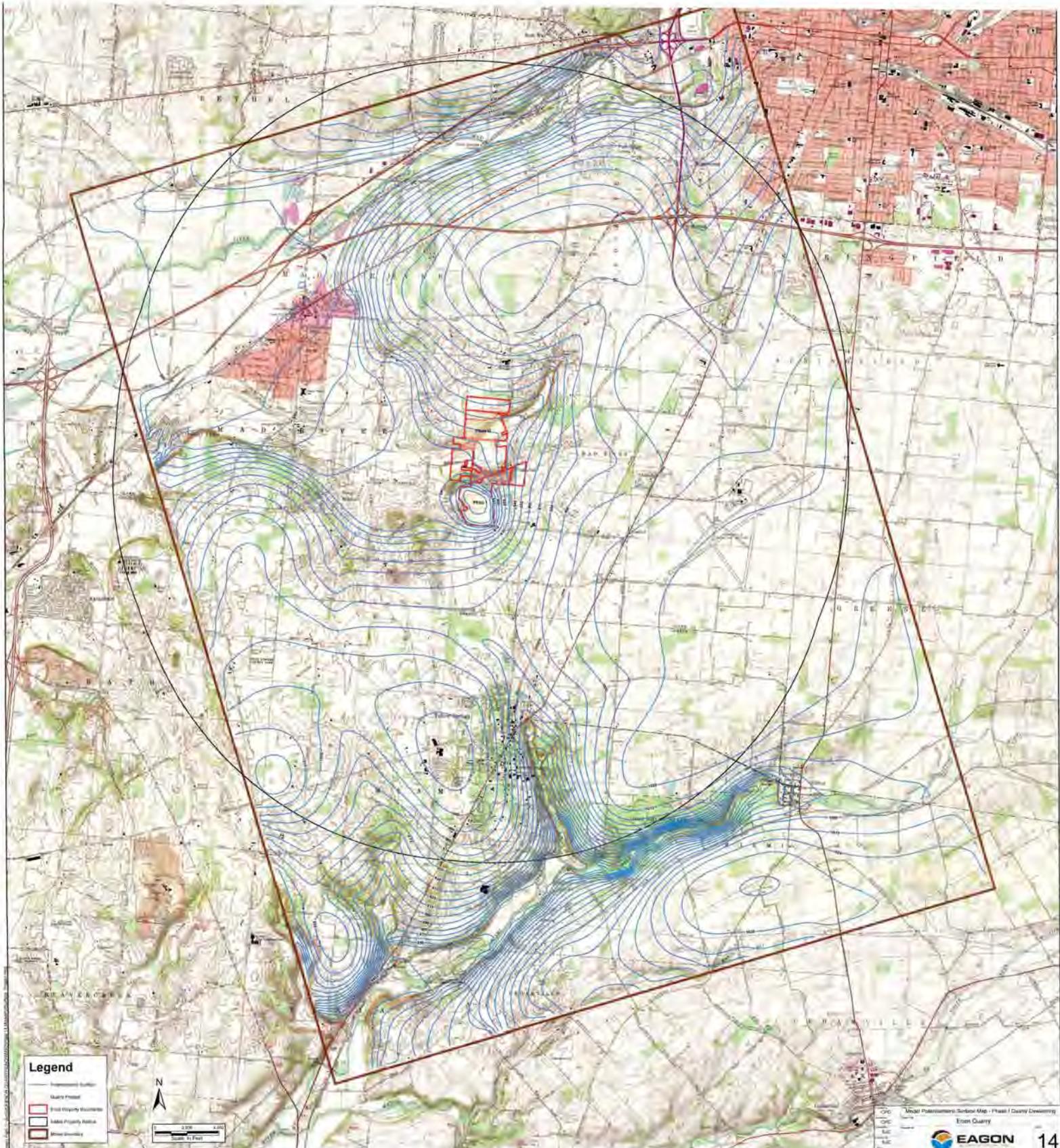


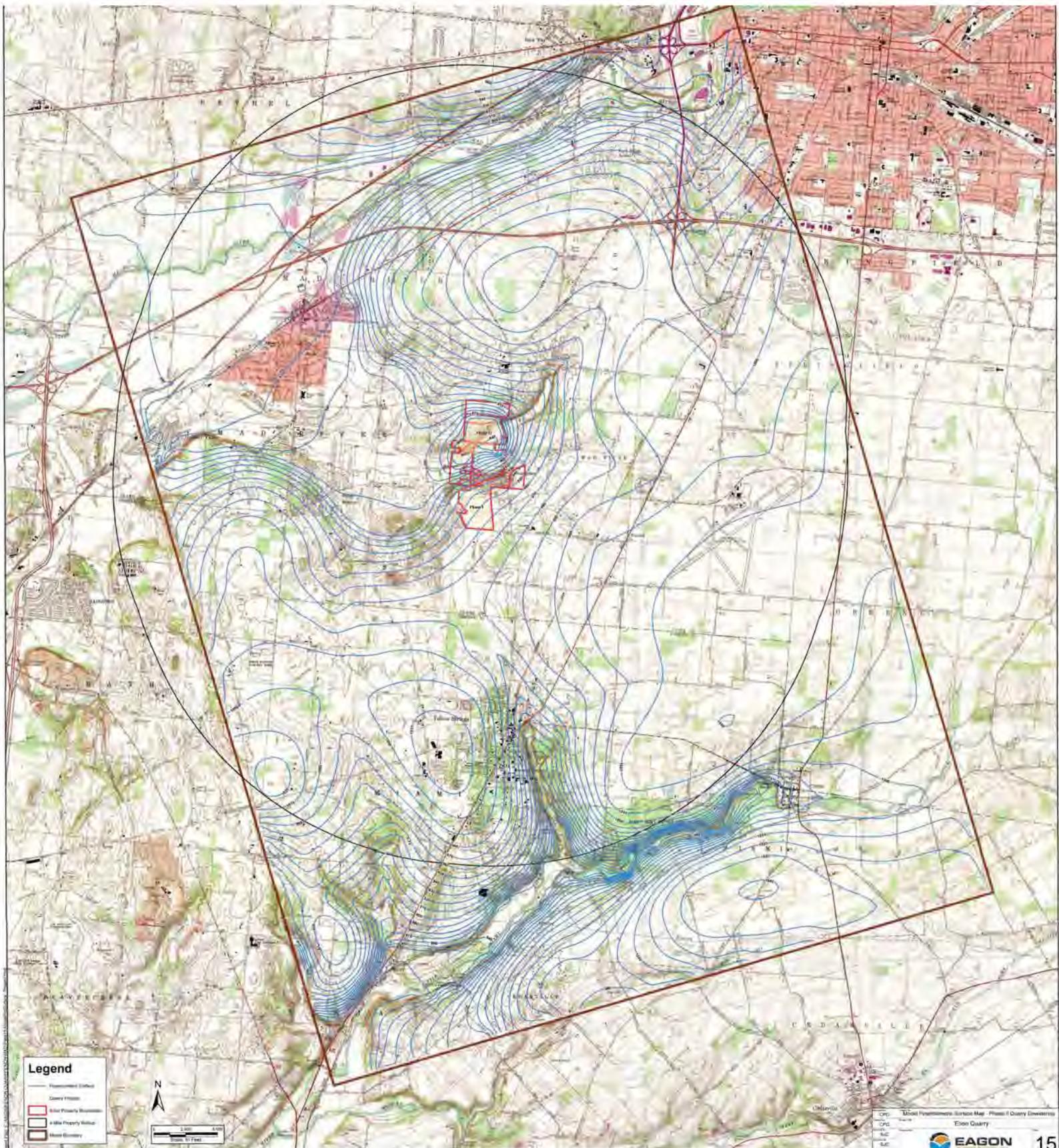
Legend

- Contour Interval
- Quarry Phase
- Quarry Boundary
- Public Property Boundary
- Other Property



City of
 Enon Quarry
 Model Drawdown - Phase II Quarry Dewatering





Legend

- Township District
- County Fringe
- ▭ Solar Priority Boundary
- ▭ Other Property Boundary
- ▭ Road Boundary



Cones of Influence Developed in the Silurian-Devonian Aquifer, Maumee River Basin, Ohio

Intervenor's
Exhibit
XVII
ALL-STATE® INTERNATIONAL

by Mark R. Rowland^a and George R. Kunkle^b

Abstract

In the Maumee River Basin of northwestern Ohio the principal source of ground water is the Silurian-Devonian carbonate aquifer. The use rate of ground water from this aquifer could rapidly increase many fold in the near future. This situation demands quantitative information on the resource potential of the aquifer, if proper development is to be encouraged.

A relationship between ground-water use and recharge rates through an analysis of the cones of influence is demonstrated in this paper. Computed recharge rates for the cones of influence vary from 6,800 to 75,300 gpd/sq mi, and the variation is systematic in that the higher recharge rates correlate with the higher pumpage rates. Recharge rates appear to have an upper limit of approximately 100,000 gpd/sq mi, which corresponds to a maximization of the vertical hydraulic gradient. Although maximization of the vertical hydraulic gradient is impossible to achieve for a given cone of influence, it can be approached by lowering the piezometric surface of the aquifer by increasing the pumpage rate.

Assuming that the safe yield of an aquifer is equivalent to the rate of recharge, this study demonstrates that development of an aquifer can increase many times its potential.

Introduction

The Maumee River Basin drains 4,856 square miles of northwestern Ohio in addition to 1,700 square miles of Indiana and Michigan. An average flow of close to 3,000 million gallons per day (mgd) is emptied into Lake Erie at Toledo (Ohio Division of Water, 1960, Table 7).

The principal source of ground water within the Maumee River Basin is the Silurian-Devonian carbonate aquifer. Withdrawals from this aquifer are presently estimated at 60 to 70 mgd. This use rate could rapidly accelerate providing sufficient underground resources are available. Burgess and Niple, Ltd. (1967, p. 9) estimate the water demand for industry in the Maumee River Basin will increase 82 percent, the demand for public water supply will more than triple, and agricultural uses could increase many times during the next forty years.

^aGeologist, Burgess and Niple, Ltd., 1516 King Ave., No. 12, Columbus, Ohio 43212.

^bDepartment of Geology, University of Toledo, Toledo, Ohio 43600.

Discussion open until October 1, 1970.

Although much of the future water needs will be supplied by surface-water sources, the potential increased use of ground water requires quantitative information on the resource potential of the aquifer if proper development is to be encouraged. This paper attempts to show the relationship between water use and recharge rates through an analysis of the cones of influence. The paper is an expansion of studies by Rowland (1969) on a tributary of the Maumee River.

Hydrology

As in most large drainage basins, the geology is too complex to treat in great detail. The following generalizations provide an adequate geologic framework for understanding the hydrologic system on a regional basis which is the scope of this paper.

The Maumee River Basin is mantled with a silty-clay till, the base of which constitutes the upper boundary of the Silurian-Devonian aquifer. Although the formations comprising the aquifer underlie the entire basin, the northwestern portion (Figure 1) is deeply buried beneath the Ohio shale. For practical purposes the limits of the aquifer may be set as the subcrop boundaries beneath the till.

Stratigraphically the Silurian-Devonian aquifer includes all the carbonate rocks between the Silurian Alger shale and the Devonian Ohio shale (Table 1). Although many formations are included in the aggregate thickness of the aquifer, the physical properties and hydrologic characteristics of these formations do not at this time appear to warrant their separation.

The thickness of the aquifer varies from 150 to over 800 feet (Figure 1). Some of the variation in thickness is due to stratigraphic thickening into the Michigan basin while the remainder is due to post-depositional erosion. Figure 1 shows erosion to be greatest along the crest of the Findlay Arch and on the upthrown side of the Bowling Green Fault.

The thickness of drift covering the aquifer varies from zero to over 400 feet (Cummins, 1959, pl. 1). The maximums coincide with deeply buried bedrock valleys, preglacial in age. Excepting these extremes the average drift thickness is uniformly 25 to 50 feet throughout the area.

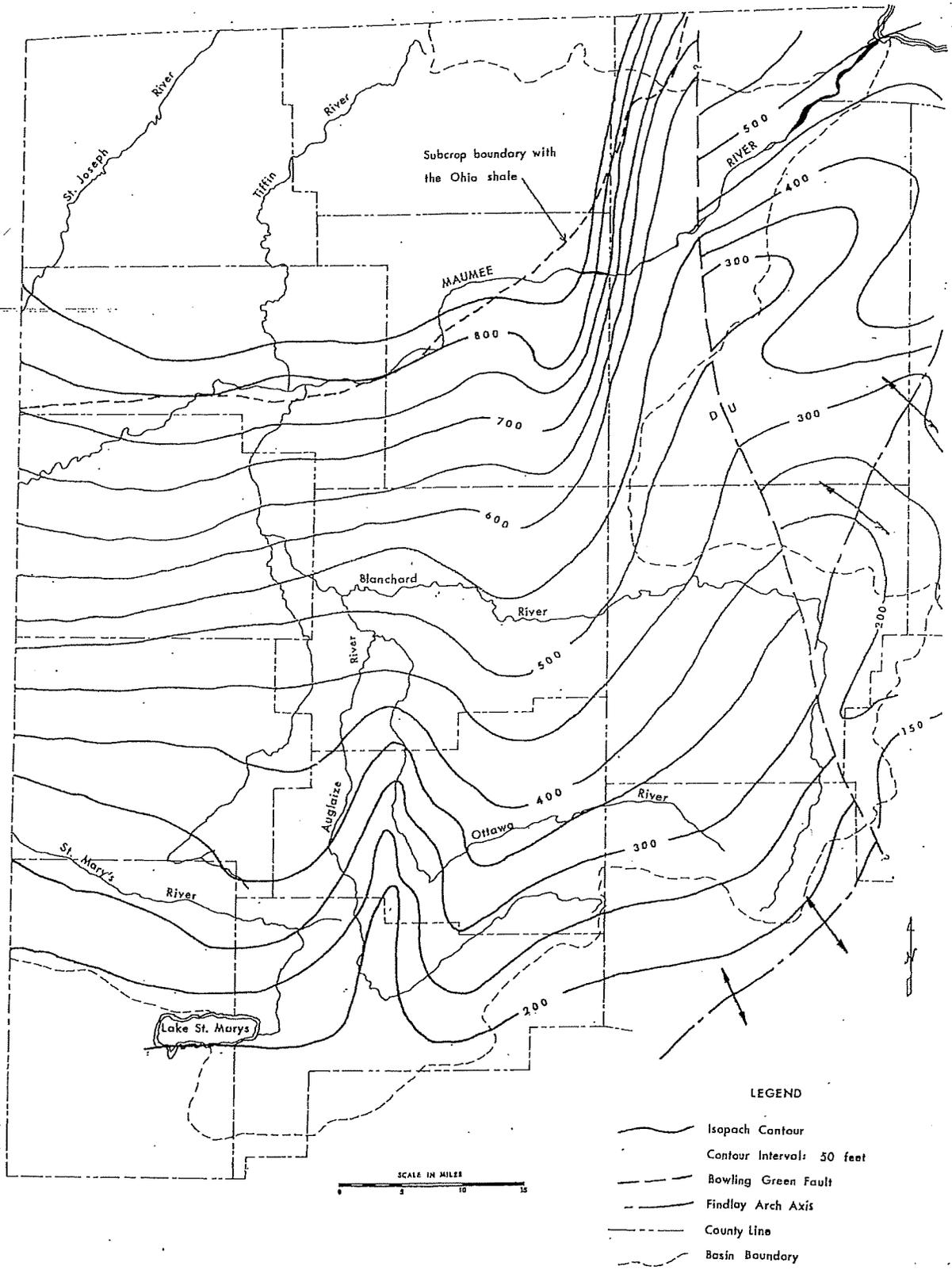


Fig. 1. Isopach map, Silurian-Devonian aquifer, Maumee River Basin, Ohio.

Recharge to the aquifer occurs as vertical leakage through the overlying drift or confining bed. Under natural conditions the water table and the piezometric surface for the aquifer show a close correlation and vertical leakage is small. As will be seen, near the centers of pumpage, the vertical hydraulic gradient increases and recharge likewise increases.

Movement in the aquifer is predominantly through secondary openings. Joints, solution cavities, and bedding fractures account for most of the aquifer permeability. As in most carbonate rocks which have at one time been exposed, solution appears to have rendered the upper part more permeable. Joints running northeast are particularly permeable and have influenced the position of surface streams, bedrock valleys, and the configuration of the cones of depression.

Because of the heterogeneity of the secondary openings, both vertically as well as horizontally, aquifer tests give variable results over a wide range. Walton (1953) reports a coefficient of transmissibility of 126,000 gallons per day per foot (gpd/ft). Recent tests by the Ohio Division of Water (verbal communication) indicate transmissibility values as low as 500 gpd/ft. Analysis of specific capacity data corrected for partial penetration, give a transmissibility value range of 6,000 to 1,000,000 with a median value of 80,000 gpd/ft (Rowland, 1969, p. 56). These values are probably on the high side as the data used is

predominantly from wells penetrating the upper part of the aquifer which is more permeable.

Except where cones of depression intercept ground water, movement in the aquifer is toward topographic lows represented by the major streams and their tributaries. Along Lake Erie, the movement is toward the lake.

The Cone of Influence

There exists, to some extent, a lack of understanding of the physical concept of the cone of influence. Too often the cone of influence is confused with the cone of depression. As the two cones have much in common, it would be good to review some basic definitions.

Theis (1938, p. 891) defined the cone of depression as the geometric solid included between the water table or other piezometric surface after the well has begun discharging and the hypothetical position that the water table or other piezometric surface would have had if there had been no discharge by the well. Practically speaking, the cone of depression encompasses all the area where pumpage had produced drawdown. The outer limit of the cone in isotropic, homogeneous material is generally assigned as the circumference of a circle where drawdown is 0.01 foot.

In contrast, the cone of influence, sometimes referred to as the area of diversion, delineates a geo-

TABLE I. GENERALIZED STRATIGRAPHIC SECTION OF THE ROCKS IN NORTHWESTERN OHIO

System	Group	Formation	Lithology	Related Terms	
Devonian	Detroit River	Ohio	Shale	Antrim	
		Dundee	Limestone	Delaware	
		Columbus	Limestone	Upper Monroe	
		Anderdon	Dolomite		
		Lucas	Dolomite		
		Amerstburg	Dolomite		
Silurian	Salina	Sylvania	Sandstone	Big Lime of the Drillers	
		Raisin River	Dolomite		
	Lockport	Tymochtee	Dolomite		Lower Helderberg
		Greenfield	Dolomite		or
		Guelph	Dolomite		Lower Monroe
		Cedarville	Dolomite		
		Springfield	Limestone		
	Clinton	Euphemia	Dolomite		
		Alger	Shale		Niagara shale
	Ordovician	Richmond	Brassfield		Limestone & Dolomite
Elkhorn			Shale	Red Medina Queenston Shale	

(Modified from Stout, 1941 and 1943; Ehlers, Stumm and Kesling, 1951; Calvert, 1960; and Janssens, 1968.)

metric solid whose projected area at the surface includes all of the aquifer in which water level gradients slope toward the well. The outer limit of the cone of influence is not controlled by drawdown but is represented by a ground-water divide where ground-water gradients (dh/dx) are zero. Ground water within the area of the cone of influence moves to the well whereas ground water beyond the outer limit of the cone moves to some other outlet.

In those rare cases where the original water table or other piezometric surface is flat, all ground-water gradients are produced by pumpage, and the cone of depression and the cone of influence will coincide. However, where the original water level surface is sloping, and where the aquifer is homogeneous and infinite, the area of the cone of depression will extend as a perfect circle centered on the well, but the area of the cone of influence will generally be tear-drop shaped. The influence of a sloping water table on the development of the two cones is well developed in a theoretical study presented by Brown (1963, p. C69-C85). Other factors which affect the shape of the cone of influence are the location of sinks and the mutual interfering of cones of influence created by adjacent pumping centers.

Piezometric Surface Map

In order to delineate the areas of the cones of influence, a piezometric surface map of the Silurian-Devonian aquifer was compiled (Figure 2). Such a map serves as a useful tool to the hydrologist in that it shows areas of recharge, directions of ground-water movement, and areas of discharge.

The map was constructed with a 20-foot contour interval with water well data collected from the Ohio Division of Water. Selected water well information was plotted at a scale of 1:250,000. Well elevations were estimated from 7- $\frac{1}{2}$ minute U. S. Geological Survey Quadrangle maps with contour intervals of 5 feet. To attain sufficient areal coverage of wells, information covering the period 1952-1966 was used. Thus, the piezometric surface map obtained is a composite surface representing the average water level conditions for the period of record. While this is an undesirable feature, the map is believed to be representative of the water level conditions existing during the late 1950's.

Another restriction of the map which should be mentioned is that it is representative only of fluid potentials in the upper part of the aquifer. Most wells penetrate less than 150 feet into the aquifer, yet the aquifer in many places greatly exceeds that thickness, and deep wells may experience lower water levels than nearby shallow wells. For this reason all deep wells were eliminated from the study to keep the data comparable.

Analysis of Cones of Influence

Eighteen cones of influence are delineated on the piezometric surface map. These cones represent

essentially steady-state conditions with recharge by vertical leakage balancing withdrawals from the aquifer.

The basic steady-state equation for the flow of water into and out of the cone of influence is:

$$Q/A = (P'/m') \Delta b,$$

where Q is the ground-water pumpage, A is the area of the cone of influence, P' is the vertical permeability of drift, m' is the average saturated thickness of the drift; and Δb is the average vertical head loss through the drift over the area of the cone.

The quotient Q/A is the recharge rate and is generally computed in gallons per day per square mile (gpd/sq mi). As would be expected recharge rates vary depending on the magnitude of $(P'/m') \Delta b$.

Table II lists the ground-water use within the cones of influence, the area of the cones, and the recharge rate. Pumpage represents municipal, industrial, and estimated domestic withdrawals. The latter are estimated on the basis of an average rural water demand for the Maumee River Basin of 4,500 gpd/sq mi (Woldorf, 1959, Table I). Municipal and industrial withdrawals were obtained from published water use data (Ohio Division of Water, 1960, Table 15) and by personal communication with some of the larger industries.

Computed recharge rates vary from 6,800 to 75,300 gpd/sq mi. The variation is systematic in that the higher recharge rates correlate with the higher pumpage rates. This relationship is shown in Figure 3. Recharge rates increase rapidly as pumpage increases to about 2 mgd. Thereafter, the recharge rate rapidly levels off and appears to approach an upper limit of approximately 100,000 gpd/sq mi. The definition of the line depends heavily on the Findlay and Lima cones of influence. Obviously, more data in this area would lend better support to the interpretation. Such data is not available.

The shape of the curve in Figure 3 is felt to be related principally to the average vertical hydraulic gradient, $\Delta b/m'$. P' , or the vertical permeability of the drift is felt to be uniform throughout the area. This assumption is based on the textural similarities of the drift both horizontally and vertically.

The asymptotic approach of Q/A to a maximum value of 100,000 gpd/sq mi corresponds to a maximization of $\Delta b/m'$. As water levels in the Silurian-Devonian aquifer are lowered through increased pumpage rates, Δb , the average difference between the water table and the piezometric surface approaches a maximum equal to m' , the saturated thickness of the drift. Furthermore, lowering of the piezometric surface below the drift-bedrock contact cannot increase Δb more than the value of m' . By definition Δb is the potential drop through the drift only.

Practically, it is impossible for the average Δb over the cone to become equal to m' . Due to the rapid flattening of the cone away from pumping well, and the fact that $\Delta b/m'$ cannot exceed unity, it becomes

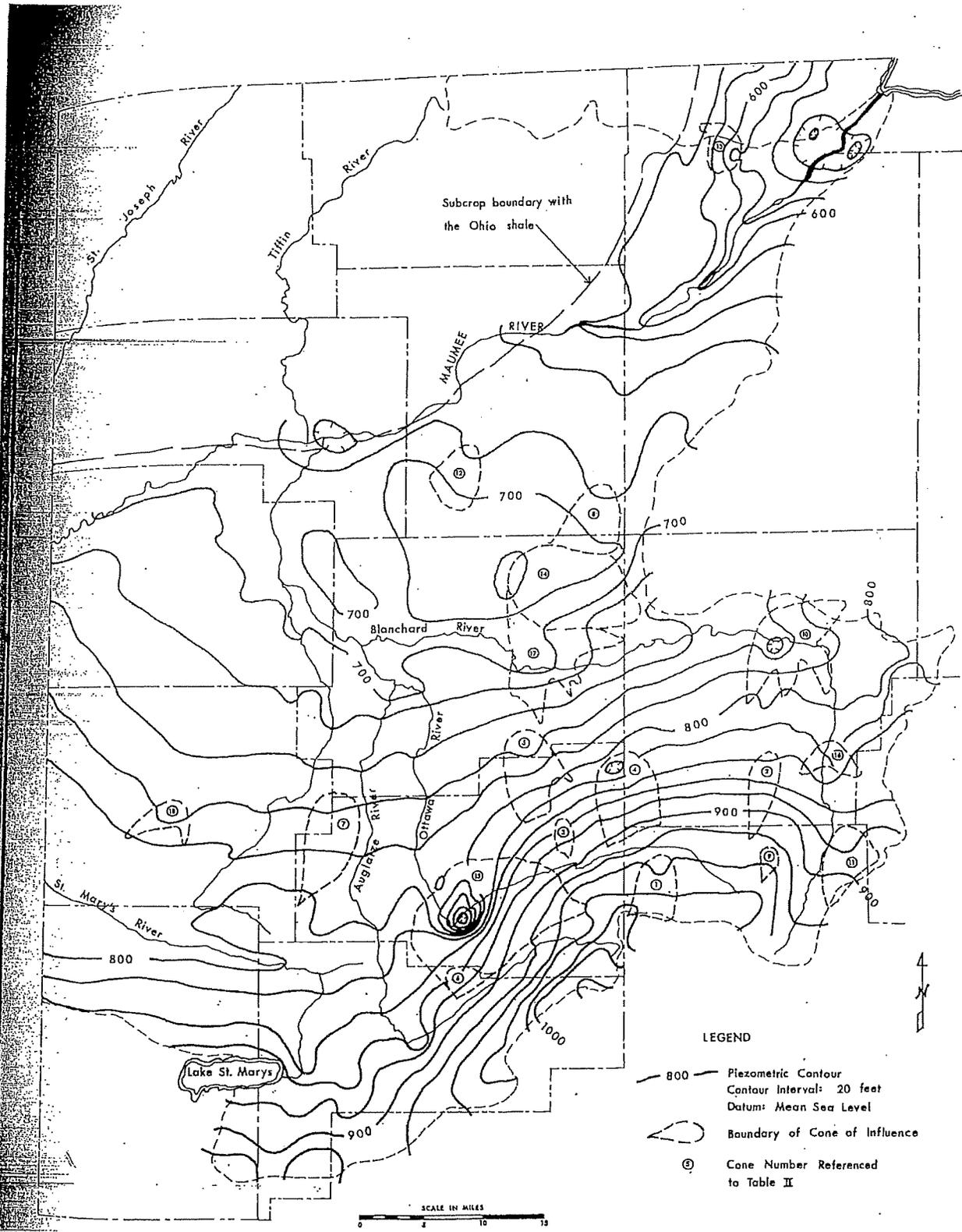


Fig. 2. Piezometric surface map, Silurian-Devonian aquifer, Maumee River Basin, Ohio.

impossible for one well to produce an average Δb of unity. However, most of the cones of influence analyzed represent multiple cones of depression which are mutually interfering. Under these circumstances it is possible for the average Δb to approach m' ,

although it is unlikely that the ratio would reach unity. Assuming that a recharge rate of 100,000 gpd/sq mi would correspond to an average vertical hydraulic gradient of unity, the inflow-outflow equation may be solved for the vertical permeability of the drift. This

TABLE II. DATA FOR CONES OF INFLUENCE

Cone *	Pumpage, Q (gpd)	Area, A (sq mi)	Recharge Rate, Q/A (gpd/sq mi)
1. Ada	236,000	14.3	16,500
2. Arlington	103,000	11.8	8,700
3. Beaverdam	38,000	4.0	9,600
4. Bluffton	554,000	24.5	22,600
5. Columbus Grove	392,000	20.5	19,100
6. Cridersville	69,000	6.8	10,100
7. Delphos	773,000	29.7	26,000
8. Dëshler	363,000	25.0	14,500
9. Dunkirk	60,000	4.5	13,300
10. Findlay	1,954,000	44.0	44,400
11. Forest-Patterson	139,000	20.4	6,800
12. Holgate	228,000	18.0	12,700
13. Holland	183,000	11.6	15,800
14. Leipsic	580,000	54.5	10,700
15. Lima	6,594,000	87.6	75,300
16. Mt. Blanchard	76,000	6.6	11,500
17. Ottawa-Glandorf	804,000	46.0	17,500
18. Van Wert	310,000	19.0	15,800

* Numbers are used to designate cones on piezometric surface map, Figure 2.

solution yields a permeability coefficient of 3.6×10^{-3} gpd/ft², a value in excellent agreement with the nature of the drift and supported by other investigators, for example, Rosenshein (1963, p. 15).

Some Implications

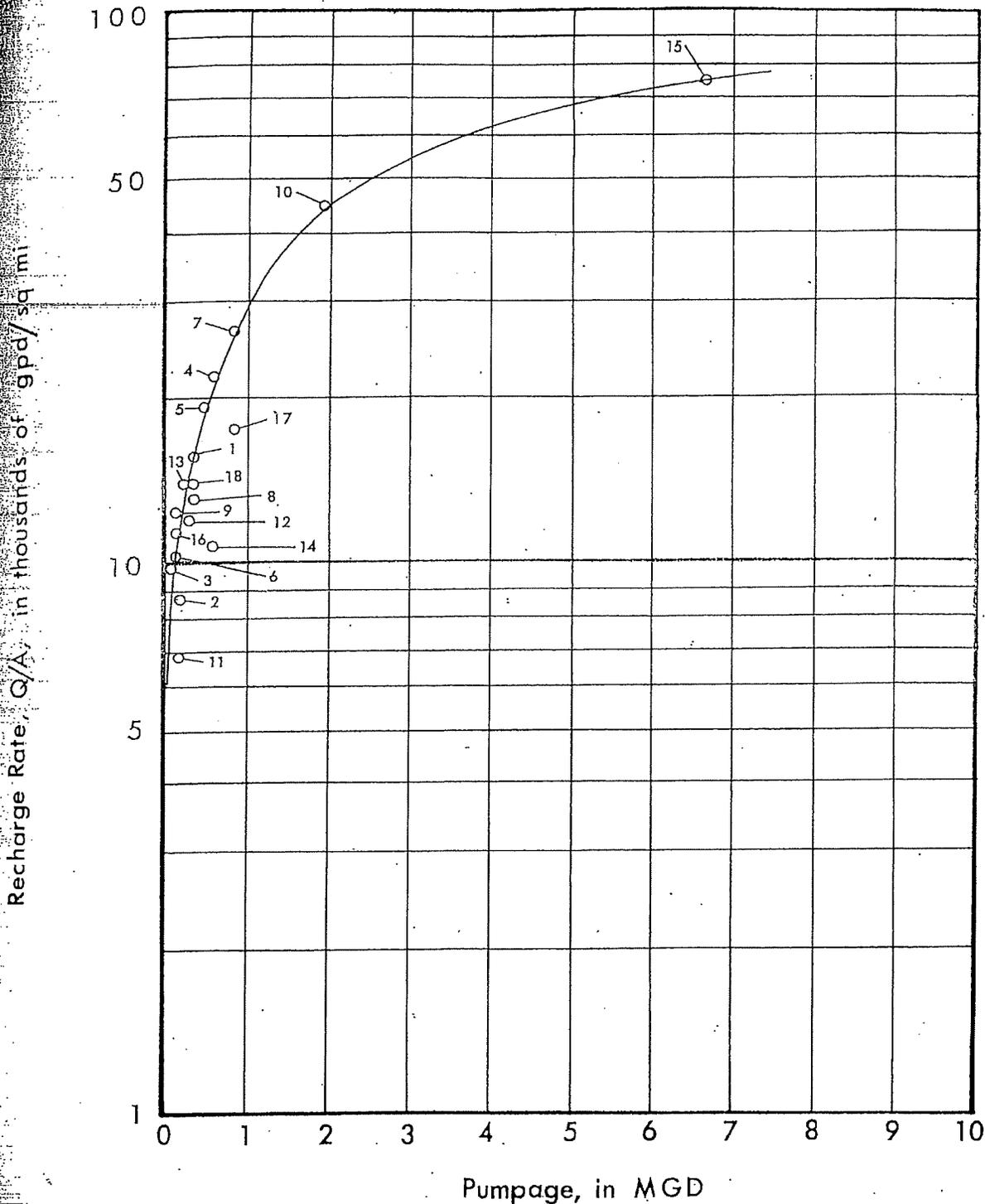
Assuming that the safe yield of an aquifer is equivalent to the rate of recharge, this study demonstrates that development can increase many times an aquifer's potential. However, just as increased pumpage results in more recharge so also does it increase the amount of drawdown. Design of individual well systems must balance pumpage and available drawdown with well spacing and recharge rates. Such a design will be highly dependent on the transmissibility of the aquifer at the site. Due to the inherent nature of carbonate aquifers, permeability and hence transmissibility are extremely variable so that no general solution is available. Each well site will require a unique solution.

Another benefit of aquifer development is the augmentation of streamflow. One of the main objectives of the northwest Ohio water development plan is augmentation of low streamflow (Burgess and Niple, Ltd., 1967, p. 10). Little of the ground water pumped is consumed except that used for irrigation. Most of the present pumpage is released as effluent to nearby streams. If no pumpage had occurred, ground water in the aquifer would discharge naturally to local streams. Development of the aquifer short-circuits the natural system while increasing the recharge and hence discharge rate. The increase in discharge rate should produce a noticeable increase in low streamflow in those basins where pumpage is large. Such an increase

was noted by Rowland (1969, Table 10) in the ground-water component of outflow of the Ottawa River which drains the Lima cone of influence.

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12 Cone Number Referenced to Table II

Fig. 3. Recharge rates vs. pumpage for cones of influence, Silurian-Devonian aquifer.

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 Woldorf, Arthur F. 1959. Irrigation and rural water use in Ohio. Repr. no. 7, Ohio Water Plan Inventory, Ohio Division of Water. 57 pp.

PROFESSIONAL QUALIFICATIONS

OF

STEPHEN J. CHAMPA

EDUCATION

Bachelor of Science, Geology, The Ohio State University, 1989. Thesis work in Hydrogeology involved the use of computer generated, two component, mixing diagrams of major cations and anions to quantify the mixing of three different water types in a municipal well field.

Additional Training

OSHA Health and Safety Training Course for Hazardous Waste Operations (40 hours), 1990
Introduction to Ground Water Geochemistry (24 hours), 1991
OSHA Supervisor Training Course for Hazardous Waste Operations (8 hours), 1993
Water Well Rehabilitation Technology (16 hours), 1998
Centrifugal Pumps (14 hours), 1999
Natural Attenuation for Remediation of Contaminated Sites (24 hours), 2001

CERTIFICATIONS

Passed Association of State Boards of Geologists (ASBOG) exam in September 2007
Received Indiana Professional Geologist License in March 2008
Received Illinois Professional Geologist License in March 2012
Qualified Groundwater Scientist in Ohio

PROFESSIONAL SOCIETIES

National Ground Water Association
Indiana Water Resources Association

EXPERIENCE

Eagon & Associates, Inc. - Hydrogeologist March 1989 to Present
Worthington, Ohio

Project management of water supply development and maintenance for municipal and private water supplies in Indiana, Ohio, Missouri, and South Carolina. Includes interaction with clients and regulatory authorities regarding location, property acquisition, and permitting. Design and analysis of short and long term pumping tests to evaluate aquifer characteristics and well performance. Analysis of pumping-test data including groundwater flow modeling to determine aquifer characteristics, well-field capacity, safe yield of wells, and potential impacts on surrounding wells. Well field design capacities have ranged from 200,000 gallons per day (gpd) to 30 million gallons

Stephen J. Champa
Resume (cont'd)

per day (mgd). Design and construction supervision of bedrock and sand and gravel wells ranging from 8-inch diameter rotary installations to large diameter (30 to 36 inch) natural and gravel pack wells installed by cable tool, rotary, and reverse rotary methods. Supervision of well rehabilitation of bedrock and sand and gravel wells. Wellhead protection area delineations by analytical and groundwater flow modeling methods in Ohio and Indiana. Performance of potential contamination/pollution source inventories. Preparation of Wellhead Protection Management plans including public meetings and interactions with emergency response agencies. Involvement with preparation of a Wellhead Protection Ordinance for Hamilton County, Indiana. Design and performance of residential well surveys. Groundwater flow modeling for quarry permitting and evaluation of quarry dewatering impacts in Ohio. Groundwater flow modeling in support of groundwater monitoring for underground injection wells.

Project management of groundwater monitoring programs at seven municipal solid waste landfills in Ohio including detection, assessment, and corrective measures programs. Project management of the groundwater monitoring program for a municipal solid waste Superfund landfill in Dayton, Ohio. Interaction with clients and State and Federal regulatory authorities including public presentations. Supervision of monitor well, gas probe, gas vent, and gas and leachate extraction well installations and abandonments. Supervision of groundwater contamination investigations. Performance of geophysical surveys to define bedrock topography and to delineate waste limits, groundwater contamination, and underground mine voids. Analysis and interpretation of groundwater geochemistry. Duties include preparation of numerous plans and reports and responses to comments from regulatory agencies. Groundwater flow modeling using MODFLOW modular three dimensional finite difference groundwater flow model. Preparation of geologic and hydrogeologic cross sections from well-log and test-hole data. Computer data management and analysis of water-quality and water-level data. Performance of hydrogeologic testing of landfill monitoring wells using state-of-the-art groundwater level monitoring equipment. Analysis of pump, slug, and packer testing results using computer graphics and mathematical methods. Sampling of residential and monitoring wells. Performance of residential well surveys.

Burgess & Niple, Ltd.
Columbus, Ohio

1976 - 1979

Rodman on Survey Crew

MILITARY SERVICE

United States Army, 5th Special Forces Group (Airborne), Fort Bragg, North Carolina. Held Secret Security Clearance. Honorably discharged at pay grade E-5.

1979 - 1983

CAM-Mad River Township, et al., v. Division of Mineral Resources Management, et al.

Reclamation Commission Case Nos. RC-17-004-006

**Index to Testimony of Mr. Stephen Champa,
Hydrologist, Eagon & Associates, Inc.**

- 1) Volume IV (begins at p. 793)
 - a) Testimony of Mr. Champa: pp. 961 – 1079
 - i) Mr. Champa testifies about the creation and calibration of the hydrology model he prepared and submitted to ODNR for the Enon Sand & Gravel, LLC mining site.
- 2) Volume V (begins at p. 1082)
 - a) Continued Testimony of Mr. Champa: pp. 1097-1212
 - i) Mr. Champa continues his testimony regarding the hydrology model
 - ii) Mr. Champa discussed the putative wetland located southwest of the mine site as follows:
 - (1) p. 1177
 - (a) It is supplied by a perched aquifer separated by an aquitard from the lower aquifer.
 - (2) p. 1203-04
 - (a) Because it is supplied by a perched aquifer, dewatering of the quarry would have no effect on it.
 - (3) p. 1205-07
 - (a) Deepening the quarry would also not impact it given its higher elevation than the bedrock in the area and the lack of a hydraulic interconnection between it and the lower aquifer.
 - (b) It is fed by ground water and surface water.
 - (4) p. 1208-09
 - (a) It is fed by a perched aquitard separated by an aquitard beneath it. It is not fed by water under pressure coming from below.

(b) Well log data in the area leads to the conclusion that it is fed by a perched aquifer.

(5) p. 1211

(a) The perched aquifer is separate from the underlying aquifer.

BEFORE THE RECLAMATION COMMISSION

STATE OF OHIO

- - -

CAM-Mad River Township, et:
 al., :
 Appellants, :
 vs. : Case Nos. RC-17-004-006
 Division of Mineral :
 Resources Management, :
 Appellee, :
 and :
 Enon Sand & Gravel, LLC, :
 Intervenor. :

- - -

PROCEEDINGS

before Reclamation Commission, State of Ohio, at the
 Reclamation Commission, Ohio Department of Natural
 Resources, 2045 Morse Road, Building E, 1st Floor,
 Columbus, Ohio, called at 8:33 a.m. on Thursday,
 April 26, 2018.

- - -

VOLUME IV

- - -

ARMSTRONG & OKEY, INC.
 222 East Town Street, Second Floor
 Columbus, Ohio 43215-5201
 (614) 224-9481 - (800) 223-9481

- - -

1 RECLAMATION COMMISSION:

2 Mr. Sean A. McCarter, Chairman
3 Ms. Koral A. Clum
4 Mr. Richard Birt
5 Mr. George E. Mizer
6 Mr. Ray Rummell
7 Mr. Craig N. Porter
8
9 Ms. Linda Osterman, Hearing Officer

6

APPEARANCES:

7

8 Fair Shake Environmental Legal Services
9 By Mr. James Yskamp
10 and Nathan A. Hunter
11 159 South Main Street, Suite 1030
12 Akron, Ohio 44308
13 On behalf of the Appellants.

10

11

12 Mike DeWine, Ohio Attorney General
13 By Mr. Brian Ball
14 and Ms. Molly Corey,
15 Senior Assistant Attorneys General
16 2045 Morse Road, Build A-3
17 Columbus, Ohio 43229
18 On behalf of the Appellee.

12

13

14

15

16 Eastman & Smith Ltd.
17 By Mr. Matthew D. Harper
18 One SeaGate, 24th Floor
19 Toledo, Ohio 43604

16

17

18 and

18

19 By Mr. Brian P. Barger
20 100 East Broad Street, 21st Floor
21 Columbus, Ohio 43215

19

20

21 On behalf of the Intervenor.

21

- - -

22

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1 CHAIRMAN McCARTER: Follow-up? Follow-up
2 on behalf of the Division?

3 MR. BALL: None, thank you.

4 CHAIRMAN McCARTER: Thank you for your
5 testimony, Mr. Garrison.

6 THE WITNESS: Thank you.

7 CHAIRMAN McCARTER: Next witness.

8 MR. HARPER: We would call Mr. Steve
9 Champa.

10 CHAIRMAN McCARTER: Okay.

11 - - -

12 STEPHEN CHAMPA

13 being by me first duly sworn, as hereinafter
14 certified, deposes and says as follows:

15 DIRECT EXAMINATION

16 By Mr. Harper:

17 Q. Would you state your name for the record,
18 sir.

19 A. Stephen Champa.

20 Q. Where do you work, Mr. Champa?

21 A. Eagon & Associates.

22 Q. There should be a small binder there
23 maybe in front of you underneath the other one.
24 Right there. If I can direct your attention to what
25 has been marked as Intervenors' Exhibit No. II. It

1 should be at tab 2.

2 A. Uh-huh.

3 Q. Are you familiar with that document?

4 A. Yes, I am.

5 Q. What is it, sir?

6 A. That's my statement of qualifications.

7 Q. Your curriculum or biographical --

8 A. More of a resume.

9 Q. Resume? Is it true and correct?

10 A. Yes.

11 Q. Okay. I'm going to ask a little bit of
12 your experience. How long have you worked for Eagon
13 & Associates?

14 A. Over 29 years.

15 Q. And prior to that, what -- did you work
16 in any other engineering firms?

17 A. I worked for Burgess & Niple engineers.
18 I was working on a survey crew, did that prior to and
19 after my military service.

20 Q. When did you serve in the military, sir?

21 A. 1979 to 1983.

22 Q. And you went to the Ohio State
23 University?

24 A. That's correct.

25 Q. When did you go there?

1 A. 1985 to 1989.

2 Q. And did you graduate from Ohio State
3 University with a degree?

4 A. I did.

5 Q. And what was that degree, sir?

6 A. Bachelor of Science.

7 Q. Did you have any particular focus in your
8 Bachelor of Science?

9 A. Geology.

10 Q. Looking at Exhibit II, your professional
11 qualifications, under "Education," there's a sentence
12 starts out "Thesis work in Hydrogeology"?

13 A. That's correct.

14 Q. Do you see that? Can you describe what
15 that thesis was for me?

16 A. For a Bachelor of Science at Ohio State,
17 a senior thesis was required. And so I worked with
18 Dr. Scott Bair on three-component mixing models of
19 water quality types for the Columbus south well.

20 Q. And you've been with Eagon & Associates
21 for I believe you said -- 28 or 29?

22 A. Over 29 years, yes.

23 Q. And what portion of your work at Eagon is
24 related to hydrogeology?

25 A. All of it.

1 Q. And in the course of your work for Eagon,
2 do you -- are you familiar with the concept of
3 groundwater modeling?

4 A. Certainly am.

5 Q. What's your experience with groundwater
6 modeling?

7 A. I've completed over 50 groundwater
8 models. Started working with a couple of the other
9 hydrogeologists there at Eagon and learned modeling
10 through them and through study of the MODFLOW manual.
11 And so I've done, say, over 50 models myself,
12 reviewed several other models done by other people,
13 supervised execution of models by other people.

14 Q. Have any of the groundwater models that
15 you have prepared or reviewed been done for purposes
16 of establishing a cone of depression for -- used by
17 the ODNR?

18 A. Yes.

19 Q. How many?

20 A. About 10.

21 Q. And how recently have you prepared a
22 groundwater model for use by the ODNR?

23 A. Within the last year.

24 Q. Okay.

25 A. Within the last six months.

1 Q. And how -- do you recall the year the
2 first time you submitted a groundwater model for use
3 by the ODNR, roughly?

4 A. It would have been shortly after these
5 regulations went into effect, and I would say
6 somewhere in the 2005 to 2008 time range. I'm not
7 sure exactly.

8 Q. Okay. So would it be fair to say you
9 have got at least a decade of experience working with
10 the ODNR on cones of depression?

11 A. Yes, that's correct.

12 Q. When I say the ODNR cones of depression,
13 make sure you and I are on the same page because I
14 mean specifically for purposes of establishing cones
15 of depression for surface mining operations.

16 A. Yes, that's correct.

17 MR. HARPER: Okay. I'll note for the
18 record that the parties have stipulated that
19 Mr. Champa is an expert in hydrogeology and geology.
20 I do have one -- I am going to move for further
21 qualification but one other question.

22 Q. In the course of your work in the
23 groundwater modeling arena, have you worked with
24 MODFLOW?

25 A. Yes.

1 Q. What is MODFLOW?

2 A. MODFLOW is a computer program that was
3 developed by the U.S. Geological Survey for
4 groundwater flow modeling.

5 Q. What's your experience with the program
6 called MODFLOW?

7 A. That was the first program that I started
8 working with in around 1990 and that's the majority
9 of the models that I've worked with are MODFLOW
10 models.

11 Q. And when you say you work with MODFLOW,
12 are you actually working with the MODFLOW program
13 itself, or do you have others who do that work for
14 you?

15 A. No. I do that myself.

16 Q. So you're actually inputting data
17 throughout developing the model?

18 A. That's correct.

19 MR. HARPER: As I indicated, the parties
20 have stipulated that Mr. Champa is an expert in
21 hydrogeology and geology. That would be paragraph 15
22 of the parties' stipulation. I would move for
23 Mr. Champa's qualification -- further qualification
24 as an expert in groundwater modeling, and
25 particularly preparation of groundwater models

1 utilizing MODFLOW and for use by the Division of
2 Mineral Resources Management in establishing cones of
3 depression.

4 CHAIRMAN McCARTER: Any voir dire?

5 MR. YSKAMP: Yeah, please.

6 - - -

7 VOIR DIRE

8 By Mr. Yskamp:

9 Q. Good afternoon, Mr. Champa. So I see
10 that you have your Bachelor's in geology. Have you
11 ever attempted to obtain a Master's degree in geology
12 or hydrogeology?

13 A. No, I did not.

14 Q. Do you have any -- scratch that.

15 Are you familiar with the ASTM
16 international standards related to groundwater
17 modeling?

18 A. I am.

19 Q. Do you use them when you create every
20 model?

21 A. To the degree that they're applicable,
22 yes.

23 Q. Have you ever testified as an expert
24 witness in any court or administrative proceeding
25 before?

1 A. No, I have not.

2 Q. So you have not been admitted as an
3 expert in any court or administrative proceeding
4 before.

5 A. That's correct.

6 Q. What education do you have related to
7 groundwater modeling?

8 A. As I explained, I started working with
9 modeling in 1990 with a couple of my colleagues at
10 Eagon & Associates and studied the MODFLOW manual to
11 understand the mathematics and the different packages
12 that are associated with MODFLOW, and so my -- my
13 learning has been on the job.

14 Q. You don't have any formal educational
15 experience with modeling at all?

16 A. No, I don't.

17 Q. Would you describe MODFLOW -- MODFLOW as
18 a tool that's used in modeling?

19 A. MODFLOW is a computer model.

20 Q. Okay. So is it only as good as the
21 inputs that you put into it?

22 A. Yes.

23 Q. So those inputs have to be accurate.

24 A. Yes.

25 Q. Have you ever attended any educational

1 seminars on modeling?

2 A. Not on modeling specifically. There were
3 seminars that would involve modeling in the course of
4 discussions.

5 MR. YSKAMP: Well, so I would object to
6 this witness being an expert on groundwater modeling
7 based on lack of education.

8 CHAIRMAN McCARTER: Okay. Any questions
9 from the Division?

10 MR. BALL: The Division does not object
11 to this witness performing in the capacity requested.

12 - - -

13 VOIR DIRE

14 By Chairman McCarter:

15 Q. Mr. Champa?

16 A. Yes, sir.

17 Q. What's -- as I understood your testimony,
18 you began doing groundwater modeling in the 1990s; is
19 that correct?

20 A. That's correct.

21 Q. Since 1990 how many groundwater modeling
22 projects have you been involved with?

23 A. Probably 70 or 75. I said over 50 of
24 those were models that I did myself.

25 Q. Okay. Excluding models done for IM

1 permitting, what other type of groundwater modeling
2 projects have you worked on?

3 A. The majority have been for public water
4 supply purposes, so well field capacity analysis,
5 wellhead protection area delineations, source water
6 protection areas current, term in Ohio, excuse me,
7 construction dewatering, some contaminant fate and
8 transport.

9 Q. Focusing on the municipal wells, what was
10 the purpose of the modeling in those projects?

11 A. Mostly to determine well field capacity
12 and we will go out at a new well field location and
13 run a pumping test, and we'll collect a lot of data
14 from pumping wells and observation wells. We'll come
15 back, build that into a model of the area, and
16 determine what the capacity of the aquifer may be
17 within the property that's available, determine
18 spacing of wells, optimal pumping rates,
19 recommendations for the utility.

20 Q. Do you ever in performing those functions
21 determine potential effect on other wells in the
22 area?

23 A. Often.

24 Q. So in modeling you look at the drawdown
25 and potential effect for municipal wells upon, say,

1 residential wells or other water supply wells?

2 A. Yes, we do.

3 Q. Relative to construction I heard you say
4 something about dewatering; is that correct?

5 A. Yes, that's correct.

6 Q. What modeling exercises have you been
7 involved with relative to construction?

8 A. There's one I'm working on right now
9 that's New Albany sewer alignment. We're doing some
10 modeling on different dewatering scenarios.

11 Q. So relating to construction that needs
12 dewatering in order to permit the construction to go
13 forward, you've modeled what the effect would be?

14 A. That's correct.

15 Q. And in doing that, do you take into
16 consideration effect on wells in the area?

17 A. Sometimes we do.

18 Q. I also think I heard you testify that you
19 engage in modeling relating to contaminants?

20 A. Correct.

21 Q. Could you describe what that entails.

22 A. That's the movement of groundwater
23 contaminants, organic contaminants, usually through
24 soils or aquifers to determine where things might go,
25 what concentrations might be.

1 Q. Is this based upon there being a draw
2 such as a well?

3 A. Not necessarily. Often it's under
4 ambient conditions. Sometimes we will model a
5 pumping well as an interceptor well, for instance.

6 Q. Okay. Do you ever model that for
7 potential effect upon water supply wells of
8 contaminants?

9 A. That has not been an issue in the
10 contaminate fate and transport models I've run.

11 Q. Did I hear you say that you've prepared
12 on behalf of permitholders approximately 10
13 groundwater modeling reports that have been submitted
14 to the Division as part of the permitting process?

15 A. Yes, that's correct.

16 Q. And you were responsible for those?

17 A. Yes, I have been.

18 CHAIRMAN McCARTER: Okay. Based on your
19 approximately 30 years of experience, I'm going to
20 permit you as a groundwater modeling expert. I do
21 not believe that the expertise relative to the
22 submission to the Division is really an expertise but
23 this is the same qualification that was given to the
24 Division's expert who had the same level of education
25 and a whole lot less experience.

1 MR. HARPER: Fair enough. Thank you.

2 CHAIRMAN McCARTER: Thank you.

3 - - -

4 DIRECT EXAMINATION (Continued)

5 By Mr. Hunter:

6 Q. Mr. Champa, regarding the 10 or so
7 groundwater models that you have prepared for the
8 Division, have any of those been rejected by the
9 Division?

10 A. No.

11 Q. Have those lead to approvals of those or
12 used by the Commission?

13 A. They have. I have one that's in a
14 comment and response mode right now.

15 Q. Sorry. Let me turn to the issues in this
16 case. Were you asked to prepare a groundwater model
17 for Enon Sand & Gravel relative to certain property
18 near Enon, Ohio?

19 A. I was.

20 Q. And if I could have you turn in --

21 MR. HARPER: In fact, may I approach,
22 Mr. Chairman?

23 CHAIRMAN McCARTER: Certainly.

24 Q. I am going to direct you to an Exhibit G.
25 I believe it's right there.

1 Mr. Champa, I'm directing you to what's
2 been marked as Exhibit G by the Appellants, Citizens
3 Against Mining, and I would like you to review it and
4 tell me if you're familiar with the document marked
5 as Exhibit G.

6 A. Yeah. This is a report that I prepared
7 for Enon Sand & Gravel and submitted to ODNR.

8 Q. Okay. And do you have an estimate of how
9 many hours of time you spent in the preparation of
10 the evaluation of groundwater impacts, the
11 groundwater model?

12 A. The entire project prior to submission we
13 had about 400 man hours.

14 Q. How many people worked on this project?

15 A. Four or five.

16 Q. Okay. And over what period of time?

17 A. Approximately two years.

18 Q. Two years?

19 A. Uh-huh.

20 Q. And I would like -- there's been -- I'll
21 just tell you there's been testimony about models and
22 modeling, but I would like you to explain to the
23 Commission generally the process of building a model.
24 Not necessarily building this model but just --

25 A. Just in general.

1 Q. In general how do you build a model?

2 A. Okay. You begin by gathering
3 information, so maps and reports that are pertinent
4 to the area of interest, so topographic maps, bedrock
5 topographic maps, drift thickness maps, bedrock
6 structure contour maps, groundwater availability
7 maps, sometimes soils maps, anything that's
8 available, groundwater flow maps if there are
9 published ones for the area, reports that have been
10 done by different public agencies, be it EPA or
11 Department of Natural Resources, or research that's
12 available from the U.S. Geological Survey, sometimes
13 university theses.

14 So you compile all that information. We
15 put together maps of the area with that information
16 contained on those various maps. And we use that to
17 start developing a conceptual site model which is a
18 general description of the stratigraphy in the area,
19 aquifer properties, groundwater flow characteristics,
20 anything else that may be significant to the area of
21 interest.

22 We take that and decide where to put --
23 where to lay out our model boundaries. So a model
24 always has boundaries. It's -- a model is
25 established as a grid. So within that grid is

1 divided up into rows and columns, so we have to
2 decide what the dimensions of those rows and columns
3 are going to be. We have to decide how many layers
4 the model is going to be to represent the
5 stratigraphy as we want to represent it. We have to
6 decide what input parameters we're going to use for
7 things like aquifer hydraulic conductivity, streambed
8 permeability, recharge.

9 We have to decide how to handle boundary
10 conditions. Are we going to make those no flow
11 conditions, or are we going to make those constant
12 head boundary conditions or general head boundary
13 conditions? So those are all part of the process of
14 just putting together a groundwater flow model in
15 general.

16 Q. Okay. Let me ask you, Mr. Champa, you
17 talked about the -- once the area of the model is
18 decided, that it's divided into rows and columns?

19 A. Uh-huh.

20 Q. Is that a specific function of using a
21 computer model, MODFLOW, or would you do that
22 regardless?

23 A. It's required by MODFLOW. It's the way
24 the MODFLOW works. During the execution of the
25 model, from the computer standpoint the solving set

1 of equations for each node, the node being one little
2 grid square within the model, and it solves those
3 iteratively until it either fails to converge, or it
4 comes to a solution based on the closure criteria
5 that you specify for that model.

6 Q. And at what point in the process do you
7 actually see for the first time what the cone of
8 depression might look like in generation of the
9 model?

10 A. That's very much towards the end of
11 things. Development of the model and calibration are
12 the things that take the most time, and once -- once
13 you're satisfied with the calibration, then you take
14 the model heads as a starting point for the
15 dewatering scenario that will give you the drawdown
16 contours.

17 Q. So do you actually not see the -- the
18 cone of depression contours until after the model is
19 calibrated?

20 A. That's correct.

21 Q. So in the stage of conceptualizing the
22 model, do you conceptualize what the cones of
23 depression -- cone of depression is going to look
24 like?

25 A. No.

1 Q. So does the cone of depression just
2 develop from the mathematical calculation using the
3 other data?

4 A. Yes. It's an outcome of -- of the
5 difference between the two model simulations or three
6 in this case. We were modeling two separate cones of
7 depression. As I said, we start with the output from
8 the calibrated model, the model heads, and use those
9 as a starting point for dewatering simulations.

10 Q. So during the calibration process, you're
11 not seeing the effect that calibration has or doesn't
12 have on the contours themselves, whether they're
13 getting bigger or smaller, you don't see that until
14 that process is done.

15 A. No, that's correct as far as the drawdown
16 contours are concerned.

17 Q. And that's not -- fair enough. I'll
18 leave it there. So in this -- turning to this model,
19 perhaps you could describe the process of developing
20 the model identified as Exhibit G and the nature of
21 the model. And I will tell you Exhibit E -- G,
22 excuse me, is a reproduction of your model. There
23 are small versions of the maps in the back. If there
24 is a map that you would like to look at a larger
25 version, I have larger copies of that map that I

1 could put up on the clip for the board for you to
2 reference.

3 A. Okay. Very good.

4 Q. So you just need to stop and tell me,
5 give me the opportunity to pull that out.

6 A. Okay.

7 Q. Okay?

8 A. So I pretty much described the initial
9 process that we went through on this model as in any
10 other model. We received requests from Enon Sand &
11 Gravel to execute the model. They provided us with
12 areas that they wanted to quarry, and so we knew
13 where our area of interest was. By definition for
14 the Department of Natural Resources, the hydrologic
15 study area is defined as a 4 mile radius around that
16 quarry area, the area that is to be permitted. In
17 this case -- do we have plate 1?

18 CHAIRMAN McCARTER: Yeah, it's one of the
19 boards up there.

20 A. Right here. So after we had gone
21 through -- and in the report are the bedrock
22 topography maps, the drift thickness maps, the
23 groundwater flow maps, groundwater resources map that
24 we used for this exercise.

25 So after we'd gotten all that, I looked

1 at the area of interest and looked at what boundaries
2 I wanted to use. So I wanted to incorporate the
3 Little Miami River to the south, and I wanted to
4 incorporate the Mad River to the north. And to the
5 west everything falls off into the Great Miami River
6 valley. So -- so those three to a degree bracket the
7 extent of the carbonate in those directions.

8 To the east there's not a great boundary
9 like a major river or any dissection of the carbonate
10 aquifer, so I just got that far enough out to the
11 east that it wouldn't affect my further modeling
12 results.

13 CHAIRMAN McCARTER: For clarity of the
14 record, the witness is testifying in regards to plate
15 1 to Exhibit G, CAM, is it, 4597?

16 THE WITNESS: 4587.

17 MR. HARPER: 4587.

18 CHAIRMAN McCARTER: 4587, thank you.

19 Go ahead.

20 MR. HARPER: Thank you, Mr. Chairman.

21 THE WITNESS: No, you're welcome.

22 Q. So once you established the boundaries,
23 what then came next in the modeling process?

24 A. So as I referred to the conceptual site
25 model before, we had determined -- I had determined

1 that I wanted to do a four-layer model, the upper
2 layer representing the upper dolomite, the
3 Cedarville; middle layer, layer two, I should say,
4 representing the Massie shale; layer three
5 representing the lower dolomite formations,
6 Brassfield/Laurel/Osgood, et cetera; and layer four
7 representing the Ordovician bedrock.

8 Now, within those layers, especially
9 layers three and four and to an extent layer one,
10 we're also representing unconsolidated deposits, sand
11 and gravel deposits, both along the Mad River Valley
12 and the Little Miami River Valley and to the west
13 into Great Miami Valley and along Mud Run. So those
14 are components of the model.

15 Q. Mr. Champa can I -- I'm sorry.

16 A. Go right ahead.

17 Q. Maybe you were going to explain but you
18 made that determination in these four layers. Can
19 you explain why you wanted to use those four layers
20 versus one or two or three?

21 A. That was much of the natural stratigraphy
22 of the area so it made sense to model things that
23 way. And we also in evaluation of the well log data
24 from ODNr that are wells that were completed in the
25 upper bedrock and wells that are completed through

1 the upper bedrock and in the upper carbonate and into
2 the lower carbonate aquifer.

3 So we were able to simulate wells in
4 individual layers that way and simulate the Massie
5 shale as a confining layer between those two and
6 simulate the shale and the sand and gravel deposits
7 in the Mad River Valley primarily into layer four.

8 Q. Okay. I'm sorry I interrupted you.
9 Continue.

10 A. No, that's all right. So at that point
11 you start to -- you have to figure out your grid, so
12 we had to decide what our node spacing would be. I
13 believe I have a 100 foot grid node size in the
14 center parts of the model. I'm going to move to my
15 figure here. So you can see that on figure 7.

16 CHAIRMAN McCARTER: Can you give us the
17 CAM number?

18 THE WITNESS: CAM Prod? It's CAM Prod
19 4188. There's not a figure number in the exhibit for
20 that -- or page number. It's figure 7.

21 CHAIRMAN McCARTER: Go ahead, please.

22 A. So the model grid is illustrated on
23 there, so within the area of interest we have a finer
24 model grid. Like I said, I think it's 100 feet
25 square. And then we step out to larger grid node

1 sizes as much as 500 feet out in more distant areas.
2 That allows us to get a better refinement of
3 groundwater flow and eventually drawdown in the
4 vicinity of the quarry areas, and it makes the whole
5 model more manageable from a computer standpoint
6 because this is many thousands of nodes. So at some
7 point you start to even with today's computers
8 belabor the capabilities for no good end.

9 So after that, we have things like
10 streams that we know we're going to input into the
11 model. And so those are illustrated on this figure,
12 the stream routings.

13 Q. You're still on figure 7, page 4 --

14 A. I'm on figure 7. I'm also going to refer
15 you to figure 5 which is CAM Prod 4186 which is layer
16 one boundary conditions so this shows the routing of
17 streams within layer one where the streams -- stream
18 elevations drop below layer one and then they're in
19 layer two which is on figure 6 which is CAM Prod
20 4187.

21 And then as they continue to fall in
22 elevation, they wind up in layer three which is back
23 to figure 7 CAM Prod 4188. In layer four there are a
24 few streams also and that's on figure 8. it's CAM
25 product 4189.

1 So the elevations of those streams are
2 determined using the topographic mapping from the
3 USGS, so we set stages which is the water level
4 elevation in the stream, and we set a bottom
5 elevation for the stream which is how we control the
6 depth of the river in any given node. We have to
7 assign the streambed permeability which helps control
8 the amount of water that's able to move into the
9 river node or out of the river node depending on the
10 head relationships around the river node.

11 We also enter a length and a width for
12 the stream within each node, so it's -- it's fairly
13 accurate to the degree, excuse me, that you know what
14 those stream widths and depths are.

15 We have to assign hydraulic conductivity
16 values and recharge values to the model. Hydraulic
17 conductivity values we started with a pumping test of
18 a well in Yellow Springs. And so analysis of that
19 data gave me a transmissivity which is hydraulic
20 conductivity times aquifer thickness of around 21,000
21 gallons per day per foot. So that's what we started
22 with.

23 I'll continue with the construction of
24 the model before I go back to where we went from
25 there. So recharge values, we started with some

1 relatively uniform recharge values. I think -- I
2 don't think we changed the recharge values in the Mad
3 River Valley or Little Miami Valley, and those values
4 were from published reports and other models. USGS
5 had done a model for the Great Miami River Valley
6 aquifer. That was the source of some of the
7 hydraulic conductivity and recharge values we used up
8 there.

9 I think we started with around 2 inches
10 per year of recharge over till covered areas which is
11 a fairly common value to use. The hydraulic
12 conductivities of the shale units we varied, and I
13 don't remember what the range is right off, but we
14 varied those hydraulic conductivities, but we varied
15 those throughout model calibration.

16 So to go back to hydraulic conductivity,
17 we started, like I said, with a relatively high
18 number. And our model heads were very much lower
19 than what the wellheads from well log data would
20 suggest they should be in the groundwater flow maps
21 for the area.

22 Q. So let me stop you there, Mr. Champa.
23 And so when you say there was a difference between
24 the -- I think what you're saying is there was a
25 difference between model heads and the well log data;

1 is that correct?

2 A. That's correct.

3 Q. And is that part of the calibration
4 process that you're talking about?

5 A. Yeah. This is the beginning of the
6 calibration process.

7 Q. Maybe you could describe -- so, you know,
8 you make -- you -- as I understand it, you canvass
9 literature to get starting values from the available
10 information, use that to input into the model, and
11 then once that's done you begin the calibration
12 process?

13 A. That's correct.

14 Q. Fair? Maybe you can just explain to us
15 how that calibration process works.

16 A. Sure.

17 Q. As I said, the map --

18 A. Our calibration target is the
19 potentiometric surface map that we drew based on the
20 available data from the well logs which is generally
21 consistent with the published flow maps for the area.
22 I think plate 8 --

23 Q. Plate 8?

24 A. I believe, yeah. Plate 1 does not have
25 that.

1 Q. Why don't you --

2 A. Plate 8 is CAM Prod 4594.

3 Q. Pause for a second. Let me put that up.

4 A. Okay.

5 MR. HARPER: Bear with me,

6 Mr. Commissioner.

7 MS. OSTERMAN: Do you need more of those
8 things?

9 MR. HARPER: No. I apologize. I didn't
10 have a chance to get these mounted so.

11 Q. Perhaps with regard to plate 8, the
12 potentiometric surface map, tell us what that is, why
13 you even prepared it as part of the model.

14 A. Because that describes groundwater flow.
15 So groundwater flows from higher area -- higher
16 elevations to lower elevations. And so by drawing
17 this map, we know what the groundwater flow
18 directions are. We know what horizontal hydraulic
19 gradients are and those are the things that we
20 calibrate to in this case because we really don't
21 have anything else to calibrate to. So --

22 Q. Can I stop you, Mr. Champa? I'm sorry.

23 A. Yes.

24 Q. What information is used in the
25 preparation of the potentiometric surface map?

1 A. That is primarily from well log data from
2 the Department of Natural Resources.

3 Q. And how do you -- when you prepared that,
4 how did you determine what well logs to look at? Did
5 you look at all of them that were available within
6 the area?

7 A. We downloaded all the well logs for the
8 area from the Department of Natural Resources. Plot
9 them all up on a map. Not all well logs have water
10 level elevation data so we can't use those, of
11 course. So we plotted up everything that we had at
12 the time that was available in the database. It was
13 around 2,200 well logs.

14 Q. Am I correct then that there were at
15 least in this initial phase of just gathering the
16 data for this potentiometric surface map, if the --
17 if the well log was available in the online ODNR
18 database that was used in the preparation of this,
19 assuming it had an MSL?

20 A. Yes, it was, right.

21 Q. Please continue.

22 CHAIRMAN McCARTER: Assuming it had?

23 MR. HARPER: An MSL, an elevation.

24 CHAIRMAN McCARTER: Had a surface

25 reference for MSL?

1 THE WITNESS: Well, the well logs
2 themselves generally do not have those ground
3 elevations. More recent ones do. Older ones do not,
4 so they have a depth to water. And so we determine a
5 ground elevation. Sometimes that's provided through
6 DNR in the database that we get. Sometimes we have
7 to determine that from the digital elevation models
8 that we work with in GIS systems.

9 CHAIRMAN McCARTER: So sometimes the logs
10 you use didn't have MSL on them. You had to reverse
11 engineer to calculate them?

12 THE WITNESS: That's correct. And the
13 ones that didn't have the depth to water on them we
14 couldn't use at all for this purpose.

15 CHAIRMAN McCARTER: Thank you.

16 A. So the blue lines on plate 8 are the
17 potentiometric surface that we drew that was our
18 calibration target.

19 Q. Can you -- can I ask you to just point
20 when you say the blue line just so the Commission
21 and, frankly, I can tell which lines you're
22 referencing?

23 A. Yeah. There's -- there's two sets of
24 lines on here and the blue lines are the drawn
25 potentiometric surface.

1 Q. Okay.

2 A. Okay?

3 Q. And so how is -- the potentiometric
4 surface map, how does that relate to the calibration
5 process?

6 A. That's our -- that's our target for
7 calibration is to simulate those groundwater flow
8 directions, those hydraulic gradients, those water
9 level elevations. That's our calibration target.

10 Q. Is there any indication of the
11 calibration results on this plate, like No. 8?

12 A. No, there are not. Well, I'm sorry.
13 Yes, there are. And that's the red contour lines
14 that are on there. Those are the model generated
15 contours from the calibrated flow model.

16 Q. Okay. So part of the calibration process
17 is you want the model calibration lines in red to
18 approximate the actual contour lines in blue?

19 A. That's correct.

20 Q. Okay. What else are you doing in the
21 calibration process to ensure the model is working
22 correctly?

23 A. The model will generate an error report
24 for every simulation that you run, so we always look
25 at that to make sure there aren't any errors. And

1 then we look at the mass balance for the model which
2 is the water budget. So how much water is moving in
3 and out of the model? Where is it moving? How much
4 is moving between layers? We want to make sure that
5 all that makes sense, that we don't have a
6 ridiculously small amount of water moving through the
7 model or a ridiculously large amount or usually
8 during the calibration process those things will show
9 up as you examine the model heads, and you'll see
10 something that maybe is a mound somewhere that says,
11 gee, you know, I've got a problem. I've got too much
12 recharge or too low hydraulic conductivity or I've
13 got an error in an input value, be it a stream node
14 or pumping well, something like that.

15 So you examine everything in the model
16 during the calibration process to make sure that it's
17 all doing what it's supposed to be doing and that it
18 all makes sense. Now, initially it doesn't
19 necessarily make sense and that's when you have to
20 start making adjustments to your input parameters.
21 So we probably -- we varied streambed hydraulic
22 conductivity, we varied aquifer hydraulic
23 conductivity, we varied recharge values, which is all
24 documented in the report, to arrive at our calibrated
25 model.

1 One of the key things was with regard to
2 the hydraulic conductivity that I started to refer to
3 earlier, we started with a relatively high value
4 based on a pumping test from a well in Yellow
5 Springs. That resulted in heads that were very much
6 too low. So we tried varying permeability to shale,
7 then recharge values, and still were not able to come
8 to an acceptable calibration with that high value.

9 So -- and I want to clear up something
10 too, take a step back a little bit in the process.
11 So for things like high hydraulic conductivity and
12 recharge, we establish zones and that's a MODFLOW
13 term. So the zone is an area that encompasses a
14 given value for a specific property. So for recharge
15 we've got recharge zones that range from .5 inches
16 per year to 11 inches per year I think in here.

17 So the zones that we used initially for
18 recharge and for hydraulic conductivity were based on
19 the zones that are delineated on the groundwater
20 availability map. And that is in this exhibit.
21 Groundwater resources map, it's CAM Prod 4593. It's
22 Exhibit 7.

23 Q. What plate is that?

24 A. That's plate 7.

25 CHAIRMAN McCARTER: Again, we're in

1 Exhibit G?

2 THE WITNESS: That's correct.

3 Q. Would it be helpful?

4 A. We can put that up.

5 CHAIRMAN McCARTER: If you clip it at the
6 top, it might go easier.

7 A. True.

8 MR. HARPER: Good idea.

9 MS. OSTERMAN: And I've got more clips
10 too.

11 THE WITNESS: We're too short.

12 A. So these are the zones from the
13 groundwater resources map for Clark and Greene
14 Counties. And so that delineates different areas and
15 this is from Department of Natural Resources. And it
16 expresses the change in the availability of
17 groundwater in general and also expresses some of the
18 change in lithology meaning type of rock or sand and
19 gravel versus bedrock or till deposits throughout the
20 area.

21 So we have a higher, more productive zone
22 of low carbonate aquifers over here. Through the
23 center of the area is a less productive zone, 5 and
24 15 gallon a minute zone. And then you've got
25 consolidated deposits out this way. You've got some

1 lower hydraulic conductivity, lower less
2 productive --

3 Q. Mr. Champa, when you're referring to the
4 various areas, perhaps you could reference the colors
5 of the various areas. So there's a lighter yellow
6 and that indicates -- the area in the lightest yellow
7 would indicate what?

8 A. This is part of the Mad River Valley
9 aquifer, although this is on the fringe of that
10 aquifer. So the green is the most productive.
11 That's an area of 500 to 1,000 gallons per minute on
12 groundwater availability. And so as we go into the
13 more pinkish color, we're looking at bedrock 3 to 10
14 gallons per minute. Because as we go into this more
15 orange area, this is 3 to 10 -- I'm sorry, 5 to
16 15 gallons per minute in this area. And then the
17 little darker yellow color, if you want to call it
18 that, is up to 75 -- depending on which county say 75
19 to 300 GPM availability to wells. And that's a
20 general assessment of the area. Yes, sir.

21 Q. Am I correct that the permit area is the
22 area in red?

23 A. That is the properties owned by Enon Sand
24 & Gravel, all the red outlined properties there. The
25 permit areas are labeled as Phase 1 and Phase 2 and

1 are shown in a slightly different color.

2 Q. So the information shown on plate 7,
3 groundwater resource map, how does that information
4 then assist you in development of a model?

5 A. Well, as I said, we use this as the basis
6 for our hydraulic conductivity zones and initially
7 and to some extent finally for the recharge zones
8 because those things relate to the groundwater
9 production potential in many of these zones. So it
10 makes sense to use those as a basis for those
11 distributions unless you come up with some data that
12 says otherwise, and then we may modify those
13 boundaries.

14 Q. Okay. Perhaps at this point you could --
15 and I believe you started to talk about this earlier,
16 but you define hydraulic conductivity and what goes
17 into that and how that value relates to the modeling
18 process?

19 A. Well, hydraulic conductivity defines the
20 rate of flow through the aquifer. That's only part
21 of well yield because you also have to take into
22 account the aquifer thickness and so that gives you a
23 term which I defined earlier called transmissivity
24 so.

25 Q. Tell us again what transmissivity is just

1 so we're clear.

2 A. That's the hydraulic conductivity times
3 the aquifer thickness.

4 Q. Okay.

5 A. And so the saturated aquifer thickness,
6 let me be specific about that, because you can have
7 unsaturated rock that doesn't contribute to your
8 transmissivity because it's not moving water.

9 So areas of lower hydraulic conductivity
10 are moving less water. Areas of higher hydraulic
11 conductivity are moving more water. Areas of less
12 saturated thickness, lower transmissivity, given the
13 same hydraulic conductivity will have a lower yield.
14 Wells in that area will have a lower yield. Wells
15 where the aquifer is thicker, the saturated
16 thicknesses is greater, for the same hydraulic
17 conductivity will have a greater transmissivity, and
18 so well yields will be higher in those areas.

19 Does that answer your question?

20 Q. Yes. And then you've also mentioned
21 recharge --

22 A. Uh-huh.

23 Q. -- a couple times as another assumption
24 that needs to be made or another value that needs to
25 be investigated. Can you define for the Commission

1 what recharge is?

2 A. Yeah. Recharge is a percentage of
3 rainfall that reaches the aquifer. It could also in
4 some cases be enhanced by irrigation or sometimes
5 around well fields we do artificial recharge basins
6 to enhance recharge, but generally speaking and
7 throughout this area, it's the amount of
8 precipitation that reaches the aquifer on an annual
9 basis.

10 Q. And what sources do you use to make
11 determinations about recharge values for use in
12 models such as this?

13 A. We look at values used in other models
14 there are published ranges of recharge for different
15 soil types, and so we look at all of those.

16 Q. And did you make that kind of
17 investigation in preparation for this model?

18 A. Yes.

19 Q. So let me -- at the risk of taking you
20 out of order continue to walk us through the
21 calibration process. I think that's where we were
22 trying to head was how you got to a calibrated model
23 that you could use to generate a cone of depression.

24 A. Right. So back to the hydraulic
25 conductivity again. So when we were not getting

1 anywhere close to where we needed to be with the
2 model elevations in our initial model runs, we looked
3 to figure out what was going on with the hydraulic
4 conductivity. And so I put together a map of
5 specific capacity data.

6 Q. Is that plate 9?

7 A. Oh, it was stuck together. That's why I
8 didn't see it. Yes, that is plate 9. And that's CAM
9 Prod 4595.

10 CHAIRMAN McCARTER: Again, in Exhibit G?

11 THE WITNESS: That's correct.

12 MR. HARPER: Yes, Mr. Chairman.

13 Q. So, again, we're looking, put it up on
14 the board, specific capacity data plate 9 from the
15 Eagon report and I'm looking at Exhibit G and it's
16 CAM Prod 4595.

17 Mr. Champa, please continue.

18 A. So what we did was we took all the wells
19 and at least -- let me explain specific capacity
20 first. Specific capacity is the pumping rate divided
21 by the drawdown during a test of a well. In this
22 case this is all from well log data from the Ohio
23 Department of Natural Resources. So for all the well
24 logs within the model area that had pumping and
25 drawdown data, we determined the specific capacity.

1 I believe there's a tabulator on one of the tables in
2 the report, and they are displayed here.

3 We did a color shade to get a look at the
4 distribution of hydraulic conductivities. The white
5 areas where there is no shading are 0 to 2 gallons
6 per minute per foot. The slightly darker areas are 3
7 to 6 gallons per minute per foot. And then you go up
8 to the very dark brown areas up here and down here,
9 for instance, at the Yellow Springs well field, that
10 are greater than -- as high as grade 22 gallons per
11 minute per foot.

12 So in looking at that we realized that
13 the hydraulic conductivity was much less than what we
14 had initially started with. And the way that you
15 work that is specific capacity and there's a general
16 formula that's included in many textbooks and
17 "Groundwater and Wells" by Driscoll where for an
18 unconfined aquifer you multiply the specific capacity
19 times 1,500 and that gives you a transmissivity. So
20 you divide the transmissivity by the aquifer
21 thickness and that gives you your hydraulic
22 conductivity.

23 And that's your modeling for those
24 hydraulic conductivity. And so, for instance, within
25 a mile of the permit areas there's 173 wells that we

1 had specific capacity data for. The range in
2 specific capacities was from about .02 to 25 gallons
3 per minute per foot. The 25 being a very distinct
4 outlier because I think the next highest value was
5 about 10.

6 The geometric mean of the specific
7 capacities was less than 1. So that -- that gave us
8 a hydraulic conductivity of a little less than 2
9 gallons -- or 2 feet per day. And so we plugged that
10 in.

11 For this central area for this zone
12 defined by this part of the groundwater availability
13 map, we used that low value, and then we
14 proportionally increased that for the eastern part of
15 the carbonate aquifer because that's shown as a more
16 productive part of the aquifer, part of which is it
17 is also thicker. And so that's how we came to the
18 hydraulic conductivity values that we ended up with
19 in the calibrated model for that part of the aquifer.

20 Some of the other values for hydraulic
21 conductivity was from published data like for the
22 Great Miami Valley and the Mad River Valley and the
23 Little Miami Valley which we had good pumping test
24 data from the Yellow Springs well field. So once we
25 started, we plugged that value in, we were much

1 closer to the calibration. Our model heads much more
2 resembled the potentiometric surface and the water
3 level elevations that were used to create that
4 potentiometric surface.

5 We had to tweak it a little bit more from
6 there with change in some recharge values and
7 hydraulic conductivity slightly from that but that's
8 basically where we got where we are.

9 CHAIRMAN McCARTER: Mr. Champa.

10 THE WITNESS: Sir.

11 CHAIRMAN McCARTER: For clarity you made
12 a -- if you could go back to the easel. You made a
13 reference to plate 7, I believe.

14 THE WITNESS: Yes, sir.

15 CHAIRMAN McCARTER: I don't think it's
16 reflected in the record. You made a reference that
17 the area that's of a similar color and shaded for the
18 red outlined area which includes the permit area,
19 that you made a determination for that shade of area
20 at 2 feet per day?

21 THE WITNESS: It was approximately 2 feet
22 per day based on the specific capacity data.

23 CHAIRMAN McCARTER: And that's what --
24 the adjustment you made in your model.

25 THE WITNESS: That's correct. And then

1 we --

2 CHAIRMAN McCARTER: And that's for the
3 area that's all shaded that color in the area of the
4 permitted area?

5 THE WITNESS: That's correct.

6 CHAIRMAN McCARTER: Okay. I wanted to
7 make sure that's clear in the record.

8 MR. HARPER: Thank you, Mr. Chairman.

9 CHAIRMAN McCARTER: Thank you.

10 Q. (By Mr. Harper) So, Mr. Champa, in the
11 adjustment that you made during the calibration
12 process to the hydraulic conductivity value, if I
13 understand your testimony, is not a blind adjustment,
14 but it was an adjustment that was informed by the
15 work that went into the preparation of what we've
16 been discussing, the specific capacity data at plate
17 9; is that correct?

18 A. That's correct.

19 Q. Did you just -- you did not just make
20 that adjustment without having that basis to get to a
21 more calibrated result.

22 A. No, that's correct. This is what led us
23 to that conclusion.

24 Q. Okay. And the process that you've been
25 discussing of calibration, is it common in a

1 groundwater modeling project during calibration to
2 adjust various values to get to a calibrated model?

3 A. Absolutely.

4 Q. Have you ever done a model where you
5 didn't have to make adjustments to calibrate it?

6 A. No.

7 Q. And do you think it would even be
8 possible to develop a model that would not require
9 adjustments during calibrations?

10 A. No.

11 CHAIRMAN McCARTER: Have you concluded
12 with your inquiry on calibrations?

13 MR. HARPER: I was just to suggest if the
14 Commission would like to take a break --

15 CHAIRMAN McCARTER: It would.

16 MR. HARPER: -- this might be a good
17 point.

18 CHAIRMAN McCARTER: Okay. We'll take a
19 break until 2:35.

20 (Recess taken.)

21 CHAIRMAN McCARTER: Okay. We are back on
22 the record.

23 Continuing with the examination of
24 Mr. Champa.

25 MR. HARPER: Thank you, Mr. Chairman.

1 Q. (By Mr. Harper) When we broke, took a
2 break there, Mr. Champa, we were talking about the
3 calibration process. You were explaining certain
4 adjustments that were made.

5 At this point in time of your preparation
6 of the model and your -- the point in time in the
7 calibration process, have you seen any drawdown
8 contours yet?

9 A. No.

10 Q. So you have no idea at this point where
11 the contours are going to be or go.

12 A. Nope. I know what they're going to be at
13 the quarry, but I don't know anything beyond that.

14 Q. So you didn't make any of these
15 adjustments either to expand or contract a particular
16 cone of depression; is that right?

17 A. No, not at all.

18 Q. You had not seen them at any point.

19 A. No.

20 Q. Okay. Were there -- so we talked about
21 the hydraulic conductivity adjustment. We talked
22 about recharge rate adjustments. Were there other
23 adjustments that were made during the calibration
24 process?

25 A. I think I mentioned earlier we adjusted

1 some of the streambed hydraulic conductivities in the
2 calibration process, some of that to get a feel for
3 how much does that affect heads in a given area. So
4 we probably don't necessarily do that universally
5 throughout the model, in particular stream segments
6 where you've got greater discrepancies in measured
7 versus modeled heads. And so you start playing with
8 things in that particular part of the model.

9 There were a lot of things that I did
10 regarding the area there in Echo Hills. There were
11 water levels that -- from deep wells that were high
12 and water levels from deep wells that were low and
13 water levels from shallower wells that were high and
14 pretty big discrepancies. So we looked at water
15 levels over time to see if there was a systematic
16 change in water levels and that wasn't the case. So
17 regardless of when a well log was drilled, that
18 didn't relate to a different, you know, deeper or
19 shallower water level. Looked at water level versus
20 well depth and that didn't correlate so -- so never
21 had a good resolution to that. And so we split the
22 difference. And so our -- our model reflects in
23 between the shallower water levels and the deeper
24 water levels.

25 Q. And can you indicate where -- the area

1 you're talking about on either this plate or another
2 plate just so the Commission is clear where you're
3 talking about.

4 A. Uh-huh, yeah. In this area right up here
5 west and northwest of Phase 2.

6 Q. Okay.

7 A. Oh, I'm sorry. That's Exhibit 9. CAM --
8 have to get you out of here.

9 Q. It's Exhibit G, plate 9.

10 A. CAM Prod 4595.

11 Q. Thank you, Mr. Champa. And if I can
12 direct you in Exhibit G to flip back to the
13 narrative, page 10 of your narrative. It would be
14 CAM Prod 4175. Do you see that page 10 of your
15 report --

16 A. Yes.

17 Q. -- CAM Prod 4175? There's a -- the final
18 paragraph of that page, is that paragraph referencing
19 the issue that you were just describing? And you can
20 take a moment to look at it and refresh your
21 recollection.

22 A. Yes, that's exactly what I'm talking
23 about in the middle part of that paragraph.

24 Q. Okay. And so you -- you made a specific
25 disclosure of that particular area and the

1 difficulties of calibration with regard to that
2 specific area in the model that you submitted to the
3 Division.

4 A. That's correct.

5 Q. Certainly didn't try to hide that in any
6 way, did you?

7 A. No.

8 Q. Okay. And you indicated that because of
9 the difficulty there, you ultimately took it sounds
10 like the difference between the two extremes of the
11 values that you were getting; is that right?

12 A. Uh-huh.

13 CHAIRMAN McCARTER: Is that a "yes"?

14 THE WITNESS: Yes, sir.

15 CHAIRMAN McCARTER: Thank you.

16 THE WITNESS: Sorry.

17 MR. HARPER: Thank you, Mr. Chairman.

18 Q. Having done that, did you feel that the
19 problem with regard to that specific area in the
20 model made the rest of the model or its calibration
21 suspect?

22 A. Not at all.

23 Q. Do you run into that in modeling, whether
24 it be specific areas, that for one reason or another
25 are difficult to get to calibrate within that area?

1 A. Yes, and particularly you can run into
2 that with the model like this where we're relying on
3 well log data. Well log data has an inherent degree
4 of error associated with it. For instance, some of
5 the properties in this area you have steep topography
6 so what we get is a location on a well log isn't
7 necessarily the exact location of the well. So we
8 may have 20 feet of drop on a property and so there's
9 an elevation, but we don't know that the well is
10 really at that elevation, so you have got a plus or
11 minus maybe 10 or more feet that can occur because of
12 that.

13 Q. Is it your understanding that at least in
14 preparing the model for use by the Division that it
15 is acceptable to use the well -- public well log
16 data?

17 A. It's expected.

18 Q. Are you -- have you ever been aware of a
19 requirement to basically install additional
20 monitoring wells and things like into that to
21 generate additional data for the preparation of a
22 model for -- for use by the Division?

23 A. For these quarry dewatering models, no.

24 Q. Are there other applications where you
25 might do that?

1 A. There are many modeling applications
2 where we do that. As I mentioned the public water
3 supply work earlier, we're always calibrating the
4 pumping tests. You'll have multiple observation
5 wells over a large area, and we calibrate to that
6 data as well as regional data.

7 Q. But your understanding is that's not just
8 required for purposes of the Division?

9 A. That's correct.

10 Q. I believe, Mr. Champa, that you were here
11 yesterday for Ms. Barrett's daylong testimony?

12 A. Yes, I was.

13 Q. I don't believe you were here for the
14 testimony of Mr. Huntsman, but have you had an
15 opportunity to review the transcript of his
16 testimony?

17 A. I have reviewed parts of it.

18 Q. Okay. And you're aware that he's written
19 a couple of letters critical of the Eagon model?

20 A. I am.

21 Q. And you've read both those letters?

22 A. I have.

23 Q. One of the criticisms that keeps coming
24 up is a claim that -- I'll paraphrase, that your
25 model does not take into account the presence of

1 karst. Do you recall seeing those references --

2 A. Yes, I do.

3 Q. -- in reading passages of testimony?

4 A. Uh-huh.

5 Q. I would like to give you an opportunity
6 to respond to that criticism in preparation of your
7 model.

8 A. Okay. The karst that's been identified
9 in this area is up primarily along the Miami River
10 Valley aquifer.

11 Q. Can you indicate to the Commission what
12 area you're talking about.

13 A. It's up there through this area and down
14 around 68 right up in this area.

15 Q. And just for the record, Mr. Champa,
16 you're looking at plate 9 of Exhibit G and were you
17 pointing -- can you show me where you were pointing
18 again?

19 A. Along the northern model boundary and
20 down to the southeast up here.

21 Q. Again, following the model boundary on
22 the -- I guess --

23 A. More or less.

24 Q. -- that would be the eastern side?

25 A. Right, right.

1 Q. Okay. Proceed.

2 CHAIRMAN McCARTER: Mr. Champa, did you
3 identify that as the Miami River?

4 THE WITNESS: If I did, I was mistaken.
5 That's the Mad River.

6 CHAIRMAN McCARTER: Yeah.

7 MS. OSTERMAN: Because you did.

8 THE WITNESS: I'm sorry.

9 MR. HARPER: I didn't catch that either.

10 THE WITNESS: Mad River.

11 CHAIRMAN McCARTER: And you're talking
12 about an area north of Interstate 70; is that
13 correct?

14 THE WITNESS: That's correct.

15 CHAIRMAN McCARTER: Thank you.

16 A. So within the area of the quarries
17 themselves, I've seen no evidence of karst, no
18 sinkholes. The boring logs that were done for the
19 site do not show an indication of excessive
20 weathering in the upper bedrock or of caverns or
21 voids. The residential well logs do not show any
22 indication of that. So there's no expression of an
23 extensive karst system in this area.

24 Q. When you say "in this area," which area
25 are you talking about?

1 A. In the vicinity of the quarry sites.

2 Q. As opposed to other areas outside and
3 beyond the quarry site?

4 A. To the north along the Mad River,
5 obviously there is some localized karst development.

6 Q. Have you had occasion to visit the site
7 recently?

8 A. Yes.

9 Q. And I would like you to describe your
10 recent visit to the site and whether you saw any
11 evidence for or against the presence of karst
12 features on the permit property while you were there.

13 A. We were there Monday of this week, and I
14 had been to the site before. My boss and one of the
15 other hydrogeologists that I work with had not, and
16 they have been involved in working with me on this
17 case. And so we took a visit to the site. We drove
18 around both of the areas and on the Phase 2 area in
19 particular there's a -- several outcrops but one
20 prominent outcrop towards the southern part of the
21 Phase 2 area and I can point that out again on this
22 Exhibit 9.

23 CHAIRMAN McCARTER: Plate 9 of Exhibit G.

24 MR. HARPER: Thank you, Mr. Chairman. I
25 was just going to correct that.

1 A. In the southern area of the Phase 2.

2 Q. Let me ask you --

3 CHAIRMAN McCARTER: When you make a
4 reference to that, are you referencing an area north
5 of Mud Run?

6 THE WITNESS: I am.

7 CHAIRMAN McCARTER: Thank you.

8 Q. (By Mr. Harper) Mr. Champa, just for
9 reference, I'm going to have you refer to the area
10 using the amendment map which is CAM Production 3604
11 and perhaps you can make a little tighter delineation
12 of where the area is that you were referencing.

13 A. So very much right in this area as the
14 topography starts to steepen and it doesn't show
15 particularly on this figure but right in this area
16 here as the road bounds.

17 Q. And the area that you are describing is,
18 if I'm correct, were you describing an area that is
19 just north of the vertical direction of Mud Run in
20 the middle of Phase 2; is that a fair description of
21 the area you're discussing?

22 A. Yes, yes. That's pretty much where.

23 CHAIRMAN McCARTER: Do you see the I
24 think that's C-C prime axis line on that map?

25 THE WITNESS: Oh, yes.

1 CHAIRMAN McCARTER: Okay. Are you
2 talking about an area to the east or the west of that
3 line?

4 THE WITNESS: It would be --

5 CHAIRMAN McCARTER: Or relative to that
6 line.

7 THE WITNESS: Relatively on that line and
8 extending to the west.

9 CHAIRMAN McCARTER: And that would be
10 north of Mud Run.

11 THE WITNESS: It is north of Mud Run,
12 that's correct.

13 CHAIRMAN McCARTER: Thank you.

14 A. So that's an exposure of the Cedarville
15 dolomite and the Massie shale. There's weathering of
16 the upper bedrock. There are not anything in the way
17 of caves or suggestions of karst development. There
18 also interesting was no water discharging from that
19 rock face. And, of course, we've had a very, very
20 wet spring. So that was an interesting observation.

21 Q. Why was that -- why is that observation
22 interesting in the context of determining whether
23 there are karst features on the permit property?

24 A. Well, if there were karst features, you
25 might expect water to be flowing out of those

1 features. I would just in general expect some water
2 to be discharging from that rock in that area. I was
3 kind of surprised that there wasn't.

4 Q. During that visit was there anything else
5 that was relevant to the question of whether there's
6 karst on the property or not?

7 A. There are some other outcrops that we
8 looked at. And on this map I'm not -- to the west of
9 C-C prime -- or the east of C-C prime, there's a
10 house and the barn here. There's an outcrop right
11 below that. There is actually a road that goes off
12 to the east here and so there was an outcrop right in
13 that area, again no expression of karst.

14 Q. And, Mr. Champa, just so I'm -- the area
15 you were just referencing, there's a black rectangle
16 that would indicate a structure there, and it's -- it
17 would be at the southwest intersection of C-C prime
18 and D-D prime; is that correct?

19 A. That's correct.

20 Q. Thank you.

21 CHAIRMAN McCARTER: Was that to the east
22 of a driveway running up to the structure?

23 THE WITNESS: Yes, sir.

24 CHAIRMAN McCARTER: Thank you.

25 A. There were some smaller outcrops in other

1 places, again no indication of karst. We drove up
2 into the upland areas on Phase 2 and there's no
3 expressions of sinkholes or anything that would
4 indicate karst topography. We drove around the Phase
5 1 area. And, again, we saw no expression of
6 sinkholes or anything that would indicate karst.

7 Q. Let me jump back. I may have moved off
8 it too soon. I want to ask you with regard to the
9 calibration, am I correct that the model contains
10 some -- in addition to a discussion of calibration
11 some visual representations of the calibration
12 results?

13 A. Yes, it does.

14 Q. And if I direct you to figure 13 of the
15 Eagon model, and I believe it's CAM Prod 4194, do you
16 see that?

17 A. Yes, I do.

18 Q. Can you tell the Commission what figure
19 13 is and what it represents?

20 A. So figure 13 represents a comparison of
21 the heads, the water level elevations, from the well
22 log data to the water level elevations at those
23 points from the model. So we import those locations
24 as targets. And so each target has the elevation
25 that we determine from the well log.

1 Then the post-process for MODFLOW, water
2 vistas in this case, takes and subtracts the modeled
3 heads from the well log heads. And that's -- so
4 that's a residual, that subtraction, but what this
5 shows is just a comparison of the heads.

6 So there's two sets of data on here. One
7 is for wells that are completed in model layer one so
8 Cedarville dolomite above the Massie shale. Another
9 is for deeper wells that are completed into the lower
10 carbonate aquifer below the Massie shale. So there
11 are more wells in layer one than there are in layer
12 three.

13 And the reason that we included both sets
14 of wells is because the water level in a well that
15 penetrates through the entire carbonate and the shale
16 represents a hybrid water level, if you will. So
17 there's water level in the upper carbonate aquifer,
18 and if you were to case a well off down below the
19 Massie shale into the lower carbonate aquifer, you
20 would get a different water level. And so
21 residential wells are open pore holes so they drill
22 into the top of rock, they get into competent rock,
23 they set the well casing, and the rest is an open
24 rock borehole, so you've got water from both aquifers
25 that effect water level in that well.

1 So the point of using -- comparing water
2 levels in both layers is to show that regardless of
3 the heads and the model that you look, whether it's
4 layer one or layer three, they would give you a good
5 average representation of the actual heads.

6 Q. What's -- can you explain to the
7 Commission, and I suppose to me, so the -- again
8 looking at the figure 13 CAM Prod 4194 of Exhibit G,
9 what is the line that's going from the bottom left
10 corner to the upper right corner? What does it
11 depict and what does it mean to have the various well
12 log data along that line?

13 A. So the line is best fit to that data
14 extended back through the origin of the graph, so in
15 theory 00, although 00 isn't plotted on the graph.
16 And so the coefficient or determination R squared
17 that's shown in the equation on this graph gives you
18 an idea of how that line compares to the perfect fit
19 which would be 1.0.

20 You've got a scatter of data above and
21 below the line so to the left and above and to the
22 right and below. And so, again, you don't have a
23 distinct population of wells where the water levels
24 are completely on one side or completely on the other
25 side. So, you know, throughout this range of

1 elevations, and that's what's plotted on both axes
2 you've got a good distribution of wells around that
3 line.

4 Q. And what is the coefficient of
5 determination, the R squared value, represented by
6 this line?

7 A. What is the actual value? It's .99976.

8 Q. Is that -- and the greatest value would
9 be 1?

10 A. 1 would be a perfect fit.

11 Q. Are you aware of any model ever prepared
12 that had a perfect fit?

13 A. No.

14 Q. Is .99976 in your opinion a pretty good
15 fit for calibration?

16 A. It's a good fit.

17 Q. And if I can have you flip to the next
18 page, it would be figure 14, CAM Prod 4195, is this
19 also a depiction of information relating to the
20 calibration of the model?

21 A. Yes, it is.

22 Q. And maybe you could just explain for the
23 Commission what it represents.

24 A. So this is what we call a histogram. And
25 so the data, or bin is the terminology, goes into

1 groups of 10 foot intervals. So, again, going back
2 to what I explained about the residual earlier,
3 that's what we are binning. So you've got wells that
4 are within 10 feet of having no residual and wells
5 that are within 10 to 20 feet and the same thing on
6 the negative side.

7 So what we look for for reasonable
8 calibration is a good fit to a normal distribution,
9 what's called the normal Gaussian distribution, a
10 bell-shaped curve, whatever term you want to use for
11 that. And so this data fits that fairly well. You
12 see there's a little more -- a few more wells in the
13 0 to minus 10 than there is in the 0 to plus 10
14 range. But the majority of the data fits within the
15 95 percent confidence interval of perfect Gaussian
16 distribution.

17 Q. Mr. Champa, do you remain comfortable at
18 this point in time that the model that you prepared
19 that is Exhibit G is a properly prepared and
20 calibrated model?

21 A. I do.

22 Q. Have you heard anything from
23 Mr. Huntsman's criticisms that caused you to change
24 your mind on that?

25 A. No, I have not.

1 Q. Even a little?

2 A. No.

3 Q. One of his criticisms I have not asked
4 you about yet was criticism that your model does
5 not -- does not adequately consider site-specific
6 data. Are you aware of that general criticism?

7 A. Yes. And I guess I'm a little uncertain
8 exactly what is being referred to because we have, as
9 I explained earlier, utilized the site-specific data
10 to arrive at our hydraulic conductivity that we have
11 for the area of the quarries. I'm not sure what
12 other site-specific data is being referred to. We
13 discussed the -- there's no evidence for karst within
14 the site areas; so, no, I'm not sure what that
15 criticism really refers to.

16 Q. You feel that you did utilize adequate
17 site-specific as well as regional data; would that be
18 fair?

19 A. That would be fair.

20 Q. So -- and once the calibration process
21 was completed, then you utilized the model to
22 generate the cones of depression for Phase 1 and
23 Phase 2; is that correct?

24 A. That's correct.

25 Q. And I'm directing your attention to plate

1 12 of your model so that would be plate 12 of Exhibit
2 G. And give me a moment and I will give the
3 Commission the Bates label for that. That would be
4 CAM Prod 4598. And is that the model cone of
5 depression that was developed through your model for
6 Phase 1 of the quarry?

7 A. That is.

8 Q. And, again, that model or that model
9 drawdown was not generated until after you completed
10 the calibration process.

11 A. That's correct.

12 Q. So at no point during the calibration
13 process did you know how the calibration was going to
14 affect your drawdown, either making it bigger,
15 smaller, or expanding one direction or another; is
16 that true?

17 A. That's true.

18 Q. And you wouldn't want to do that, would
19 you?

20 A. No.

21 Q. You want to let the science lead where
22 the cone of depression goes?

23 A. Absolutely.

24 Q. As opposed to you leading it?

25 A. Right.

1 Q. And is the same true with regard to plate
2 13, that that was the model drawdown generated for
3 Phase 2 of the quarry following the calibration of
4 the model?

5 A. That is true for that Phase 2 drawdown as
6 well.

7 Q. And, again, we're looking at plate 13
8 which is from Exhibit G, the Eagon model, and that
9 would be CAM Prod 4599. And during the process of --
10 well, excuse me. After developing -- no. Let me go
11 back.

12 During the process of developing your
13 model, did you have any interaction with any staff
14 from the Division of Mineral Resources Management?

15 A. At any time within the development of the
16 model, yes, I did.

17 Q. Okay. Describe that for us, please.

18 A. Myself and Corey Kiser met with Kelly
19 Barrett and Wayne Jones during -- this was during the
20 calibration process. It's something that they had
21 requested that we do for -- that anybody do,
22 especially for more complex models, to get their
23 input early on into what we were doing and to help
24 them understand what they were going to see when they
25 get to the review process after we submit it.

1 Q. Okay. That was before, during, or after
2 calibration?

3 A. It was during calibration.

4 Q. Okay. And during that meeting, did you
5 describe for them the process of calibration
6 generally as you've described it here to the
7 Commission today?

8 A. We discussed the nuts and bolts of the
9 model, the model area, the layering of the model, how
10 we were going to address boundary conditions. I
11 don't know that we discussed calibration quite as
12 much.

13 Q. Okay. Did either Mr. Jones or
14 Ms. Barrett express any concerns about the approach
15 that you were taking during that meeting?

16 A. No, they did not.

17 Q. Okay. And then after submitting the
18 model, did you have further communication with either
19 Ms. Barrett or Mr. Jones regarding the model?

20 A. Not until after submission of the model.

21 Q. Okay. And after submission of the model,
22 what was the nature of the communication between
23 yourself and either Ms. Barrett and Mr. Jones?

24 A. It was requests for additional
25 information which we supplied.

1 Q. Is that unusual --

2 A. Not at all.

3 Q. -- to have requests for additional
4 information?

5 A. Not at all. It's common.

6 Q. Would you be surprised if it actually
7 didn't happen?

8 A. To some degree, yes.

9 Q. And if I can direct your attention to
10 Appellee's Exhibit 14. Let me approach. If you can
11 turn to Appellee's Exhibit 14. Just let me know when
12 you're there.

13 A. I'm there.

14 Q. Okay. Have you seen Exhibit 14 before?

15 A. Yes, I have.

16 Q. And, in fact, were you carbon copied on
17 the letter down at the bottom?

18 A. Yes, I was.

19 Q. That's you, Stephen Champa, Senior
20 Hydrologist?

21 A. That's correct.

22 Q. Hydrogeologist.

23 A. Hydrogeologist.

24 Q. Excuse me. And is this a request for
25 additional information from Ms. Barrett?

1 A. Yes, it is.

2 Q. And if you flip to the very next exhibit,
3 15, have you seen that document before?

4 A. Yes, I have.

5 Q. And what is that?

6 A. That is our responses to her requests for
7 additional information.

8 Q. Okay. And were the responses you
9 provided in Exhibit 15 acceptable to Ms. Barrett?

10 A. Yes, I believe they were.

11 Q. Did you receive any follow-up that said
12 we still need more information to answer our
13 questions?

14 A. I don't recall that we did.

15 Q. Okay. And were you also asked to respond
16 to certain specific items raised by Mr. Huntsman in
17 his initial letter to the Division regarding your
18 model?

19 A. Yes, I believe I was.

20 Q. And if I can direct your attention to
21 Exhibit 21 in the same book. You see a letter from
22 ODNR to Mr. Huntsman dated June 19, 2017?

23 A. I do.

24 Q. And if you flip towards the end of that,
25 you should find as an addendum 1 the letter on Eagon

1 letterhead at CAM Prod 1719?

2 A. Yes, I do.

3 Q. And is -- are you familiar with the
4 letter that begins at CAM Prod 1719 and continues to
5 CAM Prod 1721?

6 A. Yes, I am.

7 Q. Did you author that letter?

8 A. I did.

9 Q. Is that your signature at the end?

10 A. Yes, it is.

11 Q. And these are responses you provided to
12 Ms. Barrett to assist her in addressing
13 Mr. Huntsman's initial letter?

14 A. That's correct.

15 Q. Okay. I'm going to direct -- I am just
16 going to hand you a copy because I don't know if
17 there is a copy up here what had been marked
18 yesterday as Appellee's Exhibit 46 --

19 A. Uh-huh.

20 Q. -- which was discussed yesterday during
21 Ms. Barrett's testimony. Do you remember testimony
22 by Ms. Barrett regarding the well log data of
23 Ms. Culbertson?

24 A. I do.

25 Q. And do you understand that a concern has

1 been raised that the complete extent of dewatering at
2 Phase 1 of the quarry could result in a complete
3 dewatering of the aquifer in the area of her well
4 such that it could not be replaced?

5 A. Can you repeat that?

6 Q. I can try.

7 A. Thanks.

8 Q. Do you understand --

9 A. I just want to make sure I got your
10 question.

11 Q. Yeah. I wasn't trying to be tricky.
12 Doing two things at once which is not a good habit.
13 Do you understand there's a concern that's been
14 raised, I'll just make it general, as to whether
15 complete dewatering at Phase 1 could have an impact
16 of completely dewatering her well?

17 A. I do understand that there is a concern.

18 Q. And having been made aware of that, have
19 you undertaken to do any examination of that
20 potential result based on your model and the
21 information regarding the location of her well,
22 location of the quarry, et cetera?

23 A. Yes, I have.

24 Q. I'm going to hand you a document that I
25 have marked as Exhibit XIII.

1 MR. HARPER: And I'm going to have to
2 apologize to the Commission. I was not able -- I
3 just got this today so this does not have the exhibit
4 label on it. The original has the exhibit on it.
5 But this is Intervenor's Exhibit XIII, XIII.

6 I got enough for you. Make sure.
7 Counsel, this is Intervenor's Exhibit XIII.
8 Intervenor's Exhibit XIII.

9 Q. (By Mr. Harper) Mr. Champa, can you tell
10 us what Intervenor's Exhibit XIII is?

11 A. This is a map of well locations generally
12 west of the Phase 1 quarry area including
13 Culbertson's well which is in the numbers in blue
14 with the white halo are the ODNR well log numbers for
15 these locations. The numbers in purple are numbers I
16 put on this map. The number on the left not in
17 parentheses is the water level elevation based on the
18 well log data and the approximate ground elevation at
19 each of these locations. The number in parentheses
20 is the bottom elevation of each well.

21 Q. And when did you assemble this
22 information?

23 A. This morning.

24 Q. And why did you assemble this
25 information?

1 A. Because of the concerns over the
2 Culbertson well and to look at additional data near
3 that well.

4 Q. And what does this data tell you about
5 that situation?

6 A. It shows that you have a very wide range
7 in reported water levels in this area that don't all
8 add up.

9 Q. And what does that -- do you draw a
10 conclusion from that with regard to the data shown on
11 Exhibit 46 with regard to Ms. Culbertson's well?

12 A. Her -- her water level elevation in her
13 well is unusually low compared to the majority of the
14 other water levels that are shown there.

15 Q. Is it your -- based on your review of the
16 other well log data, is it your professional opinion
17 that the water level in the area of her well is
18 actually higher than what would be shown on her well
19 log?

20 A. I would suspect that that was the case,
21 yes.

22 Q. I'm going to also hand you what I've
23 marked as Intervenor's Exhibit XIV.

24 MR. HARPER: And with the same apology to
25 the Commission, this is Intervenor's Exhibit XIV.

1 And I apologize it doesn't have an independent
2 deposition -- or, excuse me, exhibit mark on it.
3 Counsel, Intervenor's Exhibit XIV. Intervenor's XIV.

4 Q. Mr. Champa, same question as to Exhibit
5 XIV, can you tell us what Exhibit XIV is?

6 A. This is a cross-section generally from
7 west on your left to the east through the Culbertson
8 well towards the Phase 1 quarry area at its closest
9 approach and it shows the depth of the Culbertson
10 well, the ground surface elevation, and the water
11 level in the Culbertson well is indicated by the
12 small triangle with a line underneath of it to the
13 right -- to the right of the line that represents her
14 well.

15 The line to the right is the approximate
16 location where the high wall would be to the west
17 side of the Phase 1 mining area. It's about 275 feet
18 from the Culbertson well. The curved line -- well,
19 you go to the bottom line that's marked 850 feet.
20 That would be the floor of the quarry at closest
21 location to the Culbertson well. The curved line
22 illustrates the cone of influence, the water level
23 surface, if you will, at the completion of mining as
24 illustrated on Exhibit G, plate 12, should be CAM
25 Prod 4598. So it illustrates that we will not

1 dewater Ms. Culbertson's well, her well actually
2 extends deeper than the floor of the quarry, and the
3 water level will be higher at her well than it will
4 be at the floor of the quarry, and so we will not
5 dewater Ms. Culbertson's well.

6 MR. HARPER: One moment, Mr. Chairman.

7 CHAIRMAN McCARTER: Certainly.

8 Q. Mr. Champa, based on your expertise,
9 experience, in groundwater modeling is it your
10 opinion that the groundwater model that you prepared
11 and approved by the Division which we have been
12 looking at, Exhibit G, is a properly and
13 professionally prepared groundwater model?

14 A. Yes, it is.

15 Q. And is it your professional opinion that
16 it was properly approved by the Division for the
17 purposes of industrial mineral mining?

18 A. Yes, it is.

19 MR. HARPER: One moment.

20 Nothing further of this witness. Thank
21 you.

22 CHAIRMAN McCARTER: Thank you. On behalf
23 of CAM.

24 MR. YSKAMP: Sure.

25 - - -

1 CROSS-EXAMINATION

2 By Mr. Yskamp:

3 Q. I would like to stick with the dewatering
4 opinion that you just made.5 CHAIRMAN McCARTER: What exhibit? Is
6 that Exhibit XIV?7 MR. YSKAMP: I am going to try to -- is
8 it XIV, this one?

9 CHAIRMAN McCARTER: Yes.

10 MR. YSKAMP: Okay.

11 Q. (By Mr. Yskamp) So you have this graph
12 that depicts really no drawdown of the Culbertson
13 well, right?14 A. If you assume that the water level
15 reported on the well log is correct, which I don't
16 assume that that's the case.17 Q. If you -- doesn't the drawdown draw down
18 the water level?

19 A. Yes.

20 Q. So if you assume the water level in the
21 well is correct, it would draw it down 70 feet,
22 right?23 A. It cannot draw it down 70 feet from that
24 point. It cannot physically happen.

25 Q. Right. It can only draw it down to the

1 base of the mine.

2 A. No. It can't even draw down that far.
3 You're 275 feet away. The water level will be higher
4 275 feet away than it is at the base of the mine.

5 Q. Okay. If you assume the water level is
6 correct, the drawdown does dewater this well, doesn't
7 it?

8 A. It can't happen. I don't believe the
9 water level is correct.

10 Q. Because of the -- because of what though?

11 A. Because of physics.

12 Q. So you just think the water level here is
13 wrong.

14 A. I do.

15 Q. So looking back at Roman numeral, let's
16 see, XIII, so her well number is 871190, right?

17 A. That's correct.

18 Q. And the well -- one well below her,
19 654921, that's an 884 feet, right?

20 A. That's correct.

21 Q. So do you think that one is wrong too?

22 A. I suspect that it is.

23 Q. And then the one above it, 945 feet, you
24 think that's right.

25 A. That may be wrong too. I don't know.

1 This is why we do the well survey, so we get real
2 data.

3 Q. But shouldn't you do the well survey
4 before you do the modeling? What if -- so
5 hypothetically what if the well --

6 CHAIRMAN McCARTER: Hang on. Hang on.
7 You asked a question. Either withdraw it or let it
8 stand.

9 MR. YSKAMP: I'll let it. I'll let it.

10 CHAIRMAN McCARTER: The question is
11 withdrawn?

12 MR. YSKAMP: No. I'll ask it.

13 Q. (By Mr. Yskamp) Wouldn't you want to do a
14 well survey before you do the modeling?

15 A. We're not required to go out and generate
16 additional field data as part of this process.

17 Q. So hypothetically if her well is at
18 75 feet static water level, and you are going to
19 completely dewater it hypothetically, wouldn't you
20 want to know that before you run the model?

21 A. We can't completely dewater it.

22 Q. Would it suggest that the model is off
23 somehow?

24 A. No. It does not suggest that to me.

25 Q. So if something impossible is happening

1 in the model, it doesn't suggest that the model is
2 off?

3 A. The model is not what's suggesting
4 something impossible is happening.

5 Q. So if a well driller goes out to Carol's
6 well --

7 A. You are suggesting something impossible
8 is happening.

9 Q. I'm using the number on the well log.

10 A. I understand that.

11 Q. It's --

12 A. You can't -- you can't draw down below
13 the bottom of the quarry elevation, and you're not
14 going to draw down below the bottom of the quarry
15 elevation outside of the quarry.

16 Q. I understand that. But does that
17 necessarily mean that the well log is wrong, or could
18 it mean the model is wrong?

19 A. No. I don't believe the model is wrong.
20 I believe the well log is wrong.

21 Q. Okay. In the 945 feet do you know what
22 aquifer the well is drilled into?

23 A. Given the fact that the elevation is 835
24 at the bottom of the well, it's actually drilled
25 deeper than the Culbertson well, and so I -- I'm

1 assuming it's drilled into the lower carbonate
2 aquifer.

3 Q. So you mentioned before sometimes these
4 wells are fed by two aquifers, right?

5 A. They all are if they're through both
6 aquifers, yes.

7 Q. Isn't there a sand and gravel outwash
8 aquifer in this area?

9 A. Not specifically here. There are some
10 sand and gravel deposits.

11 Q. Okay. I think I'm going to move -- I
12 think I'm going to move on from this. I would like
13 to go into some detail about the aquifer parameters
14 you used in the model.

15 A. Uh-huh.

16 Q. If you could turn to Exhibit G which is
17 in this big black one, volume 1, Appellants' Exhibit
18 Volume 1.

19 MR. HARPER: What page are you at, James?
20 I'm sorry.

21 MR. YSKAMP: I haven't -- I think I'm
22 going to page 8 though.

23 Q. So I think the second paragraph on this
24 page is where you --

25 CHAIRMAN McCARTER: Wait. Are you at

1 page 8?

2 MR. YSKAMP: Page 8.

3 CHAIRMAN McCARTER: 4713?

4 MR. YSKAMP: 4713.

5 Q. I think this is where you discuss the
6 recharge values for the area used in the model; is
7 that right?

8 A. That appears to be right.

9 Q. Okay. And it says here and you also said
10 earlier that you started with 2 inches per year.
11 Would you remind me why you started at 2 inches per
12 year for recharge?

13 A. That's a very common value for recharge
14 through aquifer materials overlain by till for a
15 bedrock aquifer.

16 Q. So you seem to suggest that ODNR in their
17 groundwater pollution potential of Clark County,
18 Ohio, range from 4 to 7 inches per year?

19 A. They did.

20 Q. So why didn't you start there?

21 A. Because I didn't feel that was
22 appropriate. I ended up with those numbers in
23 various places.

24 Q. But not over the permit area.

25 A. No. That's correct.

1 Q. You went down to .5 inches per year?

2 A. I did.

3 Q. Why did you do that?

4 A. That was -- in part that's what gave me
5 the best calibration. The other thing to keep in
6 mind about agricultural areas is that recharge is
7 limited by crop growth and by field tile drainage,
8 and so you don't get the full amount of recharge you
9 might in an area of similar topography that's not
10 under crop.

11 Q. Okay. Could you turn to figure -- give
12 me one minute. So figure 9 of Exhibit G, it's Bates
13 4190. And so you use the recharge value of .5 inches
14 per year well beyond the permit area, right?

15 A. Correct.

16 Q. And you only used 1 inch per year to the
17 west of the permit area for most of that area as
18 well.

19 A. That's correct.

20 Q. If you look at figure --

21 CHAIRMAN McCARTER: To the west?

22 MR. YSKAMP: I meant east, yes.

23 CHAIRMAN McCARTER: The east of the
24 permit area. Okay. Thank you.

25 MR. YSKAMP: Thank you for that.

1 Q. Would you turn to I guess it's figure 1.
2 It's at Bates 4182.

3 A. Uh-huh.

4 Q. And you said, you know, you used the low
5 figure because it's an agricultural area for this
6 entire permit area and a lot of the surrounding area.
7 But do you see a lot of forested sections in this
8 area as well?

9 A. I see some. I see a lot of agricultural
10 area too.

11 Q. So how do you justify a uniform figure of
12 .5 inches per year?

13 A. Part of these wooded areas are very steep
14 terrain also. A lot of this area where it's .5
15 inches per year you've got steep slopes that don't
16 hold water. They're also discharge areas. You don't
17 get recharge in discharge areas. So there's a
18 combination of factors within that area that's .5
19 inches per year.

20 Q. Where do you get -- where do you get that
21 low .5 inches per year from? What studies, what do
22 you point to to get that low recharge from?

23 A. There's a range of recharge rates for
24 different -- different materials cited in a range of
25 publications. And I'm not going to cite you a

1 specific one right off the top of my head.

2 Q. Could you find for me it is Exhibit LLL.

3 CHAIRMAN McCARTER: Triple L.

4 Q. It's on its own. It's not in the binder.

5 MR. HARPER: Can we have a minute while
6 we locate ours? Thank you.

7 CHAIRMAN McCARTER: Okay.

8 Q. Do you recognize this document?

9 A. Yes.

10 Q. You actually cite it in your report,
11 right?

12 A. Yes.

13 Q. Would you turn to page 37. So this says
14 "Net Recharge," right?

15 A. Right.

16 Q. What's your understanding of what "net
17 recharge" is?

18 A. So the recharge that's available to the
19 aquifer.

20 Q. If you look at the last -- the bottom
21 paragraph, this is the low value for recharges noted
22 in this report and it says "Values of 2 to 4 inches
23 per year were selected for areas with greater depths
24 to water, clay loam soils, and moderate to steep
25 topography." So this gives where you started,

1 2 inches per year, right?

2 A. Correct.

3 Q. So, again, and this is the very low
4 value, right?

5 A. This is the lowest one they cite.

6 Q. Well, it's for -- and just to be clear,
7 not everywhere around the permit area has greater
8 depths to water, right?

9 A. Greater than what?

10 Q. Well, in fact, we just saw static water
11 levels of 10 feet below the surface on -- on the --

12 A. The water -- the depth to water is
13 variable around the site.

14 Q. Okay. So that -- but that wouldn't
15 justify even the 2 to 4 inches per year recharge.

16 A. The depth to water doesn't control the
17 recharge.

18 Q. It's part of though, isn't it?

19 A. No.

20 Q. It's not? So "Values of 2 to 4 inches
21 per year were selected for areas with greater depths
22 to water, clay loam soils, and moderate to steep
23 topography," you disagree with that?

24 A. Not all of it.

25 Q. So you disagree with greater depths to

1 water --

2 A. Greater depths to water don't have
3 anything to do with the recharge.

4 Q. Okay. What about clay loam soils?

5 A. That could affect recharge absolutely,
6 soil types.

7 Q. Okay. But the one that doesn't support
8 your narrative, you don't agree with that.

9 MR. HARPER: Objection, argumentative,
10 mischaracterizes his testimony. Move to strike.

11 CHAIRMAN McCARTER: Do you agree that
12 greater depth to water is a variable factor for
13 recharge?

14 THE WITNESS: The depth to water is not a
15 factor in recharge.

16 CHAIRMAN McCARTER: Moving on.

17 Q. (By Mr. Yskamp) This report was for Clark
18 County, right?

19 A. It was.

20 Q. And it did include the study area that
21 you looked at for modeling.

22 A. Yes, it did. Yes, it does.

23 Q. Did you -- did you use this to look at
24 recharge values?

25 A. I looked at this among other things, yes.

1 Q. What other things?

2 A. Look in the citations in the report. I
3 don't remember by citation. There are numerous
4 publications that reference recharge through tills
5 and through different soil types throughout the area
6 throughout the state.

7 Q. Okay. And so just going back, so how did
8 you -- how did you go from -- you started with 2
9 because of the area, and you might have already
10 answered, but I'm unclear about it, how did you go
11 from 2 to .5 inches per year?

12 A. It had to do with -- somewhat with the
13 characteristics of the area as I explained, and it
14 also went along with the lower hydraulic conductivity
15 of the aquifer materials. It wouldn't -- with a
16 lower hydraulic conductivity you can't accept a large
17 amount of recharge.

18 Q. Right. Because it doesn't account for
19 the low flow; is that why?

20 A. I'm not sure what you're referring to by
21 accounting for low flow.

22 Q. So -- and, again, hydraulic conductivity
23 I thought was the rate of flow in the aquifer.

24 A. Yes.

25 Q. Okay. So if you have a -- you're saying

1 if you have a low hydraulic conductivity, you should
2 have a low recharge?

3 A. That's correct.

4 Q. Okay. So maybe I might --

5 A. The way you phrased it was confusing.

6 Q. Okay. Fair enough. I would like to talk
7 a little bit about your site visit.

8 A. Uh-huh.

9 Q. You said that you saw some outcrop on the
10 permit area.

11 A. Correct, several.

12 Q. And you had the -- you used the map to
13 identify where that was.

14 A. Right.

15 Q. Could you just -- so I -- could you just
16 identify where that outcrop was again for me? And I
17 don't have my glasses.

18 CHAIRMAN McCARTER: Please reference the
19 map you're looking at.

20 THE WITNESS: Yes, sir. This is CAM Prod
21 3604 which is the amendment map for Enon Sand &
22 Gravel.

23 Q. Right.

24 A. And I wish I had a better ariel photo to
25 illustrate that on, but I believe it was this area

1 right here that, again, is close to and west of the
2 vertical line C-C prime.

3 Q. You said if that was karst, you would
4 expect to see some water there?

5 A. I didn't see any indication of karst at
6 all. I would have expected to see some water there
7 regardless of karst or not because it's been such a
8 wet season, and I did not see any water there.

9 Q. Could you turn to -- it is -- I believe
10 it's Appellee Exhibit 34. Do you happen to recognize
11 this document?

12 A. No. I have not seen this document.

13 Q. Are you aware of the U.S. Fish and
14 Wildlife National Wetlands Inventory?

15 A. I am aware of that.

16 Q. Okay. And do you see that there's a
17 wetland identified to the east of -- is that the Echo
18 Hills development there? Let me ask one question at
19 a time.

20 A. Please do.

21 Q. To the -- to the west on this map where
22 all the houses are, is that the Echo Hills
23 development there?

24 A. That is.

25 Q. And do you see where there is a wetland

1 identified to the east of that it has a number in it,
2 REM1C?

3 A. I do see that.

4 Q. Isn't that right around where you saw the
5 outcrop?

6 A. It's a little bit to the east of that.
7 In fact, the outcrop was probably the light-colored
8 area to the west of that.

9 Q. Okay. Which is identifying what
10 another -- oh, right here?

11 A. No. That's just part of the aerial
12 photo.

13 Q. Okay.

14 A. So that's identifying the fact that it's
15 open rock and no vegetation.

16 Q. And there is a wetland just below it.

17 A. Just east of it.

18 Q. Just east of it. Okay. Now I see where
19 you are talking about. When you went to your site
20 visit, were you just looking for karst on the permit
21 area?

22 A. We were looking at what we could see from
23 the roads around other areas which is somewhat
24 limited because we weren't trespassing on other
25 people's property. We drove up along the Mad River

1 and looked at some of the outcrops up there, some of
2 which I was familiar with already from previous work.
3 We drove down Route 68, looked at some of the
4 outcrops there, took some elevations on some things
5 there.

6 Q. Okay. So it was mostly driving around
7 looking for outcrops in the area?

8 A. Looking for outcrops and land features,
9 not just outcrops.

10 Q. Okay. Were you -- I mean, I'm just
11 trying to get a sense of how you conducted your
12 study.

13 A. Okay.

14 Q. Are you aware of -- so you --

15 A. It wasn't a study. It was just a visit.

16 Q. Fair enough. You did mention -- well, so
17 I think you mentioned you're aware of Ohio EPA's
18 karst investigation study?

19 A. I am aware of something that they started
20 and apparently never finished.

21 Q. Are you -- are you also aware of Douglas
22 Aden's karst investigation study?

23 A. I am.

24 Q. Okay. Are you aware of Ohio EPA's
25 investigation into contamination at Echo Hills?

1 A. To the degree that I have read in
2 letters, yes.

3 Q. So is it your understanding that they
4 identify karst features in that investigation?

5 A. No, it's not.

6 Q. So could you turn to Exhibit II.

7 A. Is that as in II or is there a separate?

8 CHAIRMAN McCARTER: No, not Roman
9 Numerals.

10 Q. It's Volume 2, yes.

11 MS. OSTERMAN: It looks like this.

12 CHAIRMAN McCARTER: Letters.

13 MR. HARPER: May I approach?

14 COMMISSIONER RUMMELL: It's in this book,
15 packet.

16 THE WITNESS: Oh, I'm sorry, another book
17 here.

18 MR. HARPER: Thank you, Mr. Rummell.

19 THE WITNESS: Thank you.

20 A. I'm there.

21 Q. So could you turn to page 58. That would
22 be CAM 6555. And under "Clark County-Mad River" at
23 the bottom, it states "An investigation of the
24 sources of nitrate and pathogens in the area of the
25 Echo Hills subdivision was conducted in 2005 to 2006

1 at the request of Mad River Township trustees. The
2 subdivision is located in an upland area south of the
3 Mad River and is characterized by thin glacial till
4 which overlies weathered and fractured Silurian
5 limestone and dolomite bedrock aquifers, a karst
6 setting." So you don't -- do you think they're
7 incorrect when they say that?

8 A. I think they're referring to a more
9 regional statement that's used in several reports.
10 There's no -- there's nothing in that study that
11 identifies karst in the Echo Hills subdivision as far
12 as I'm aware.

13 Q. Have you seen the study?

14 A. I've seen what's in the -- what's in this
15 report regarding the study. The study has never been
16 finalized apparently.

17 Q. Well, that's a different -- so --

18 A. Oh, I'm sor -- am I? Is that?

19 Q. Turn the page.

20 A. You're talking the Echo Hills.

21 Q. Well, I think you're maybe -- maybe not
22 but after I ask about this, this might refresh your
23 memory so. On page 59 it says "Ohio EPA conducted a
24 second investigation in early 2007 in Mad River
25 Township to better characterize the geologic setting

1 and determine shallow ground water flow rates using
2 dye tracers." So when they use dye tracers, isn't
3 that the study that you were talking about by the --
4 up by the Mad River?

5 A. That is probably the one that I am
6 referring to that hasn't been finalized, yes. And,
7 again, that was all up along the Mad River as far as
8 I can tell.

9 Q. Exhibits all over the place. Okay. So
10 going back to aquifer parameters for a little while,
11 I would like to ask you more about how you came up
12 with the hydraulic conductivity value. So I think it
13 might be helpful to go to Exhibit G and on page 8.
14 So on page 8 at the bottom paragraph and continuing
15 onto the next page at the first paragraph, you
16 describe the hydraulic conductivity values and what
17 was used to come up with them?

18 A. Uh-huh.

19 Q. My question is why isn't your specific
20 capacity calculation in here?

21 A. I don't know why I didn't put it in
22 there. I explained what we did.

23 Q. I'm sorry. Give me another moment.

24 Plate 9 which is CAM No. 4595. So this
25 is your -- these were your specific capacity

1 calculations, right?

2 A. These were the specific capacities for
3 the wells within the study area, yes.

4 Q. And you did all the wells within the
5 study area?

6 A. Every one that had a specific capacity
7 available.

8 Q. So what is --

9 A. So you have to have a pumping rate, and
10 you have to have a drawdown.

11 Q. Every one --

12 A. Not all well logs do.

13 Q. Every well with a pump rate and a
14 drawdown in the entire study area.

15 A. If it had a pumping rate and drawdown, we
16 used it.

17 Q. Okay. And aren't -- I think I've heard
18 you say that in the study area there are confined and
19 unconfined aquifers?

20 A. Yes.

21 Q. Did you differentiate between that when
22 you did your specific capacity calculations?

23 A. I don't remember.

24 Q. You don't remember?

25 A. No, I don't.

1 Q. Okay. So you -- what you do remember is
2 you -- every well within the study area that has a
3 potential for a specific capacity you calculated it.
4 And then I think you said you multiplied that by
5 1,500; is that right?

6 A. For the set of wells that we looked at
7 within a mile of the quarry, yes, we assumed
8 unconfined conditions.

9 Q. So you then took that and used a set of
10 wells for the specific capacity?

11 A. Everything within -- just the statistics
12 I gave you were for the wells within 1 mile of the
13 quarry areas.

14 Q. Okay.

15 A. We calculated specific capacities for all
16 of these wells.

17 Q. Where do you -- where did you do -- is
18 this calculation anywhere in the report? I thought
19 you -- I thought this was all the wells you used in
20 your calculation.

21 A. No, that was not in the report. It was
22 something that we did. I didn't document that in the
23 report. The specific capacities are all documented
24 in the report.

25 Q. Right. The whole -- is there anywhere

1 where just the wells that you used are documented in
2 the report?

3 A. The wells that I used for the -- within 1
4 mile? They're all part of that. I didn't
5 specifically cut those out.

6 Q. Okay. So you used a number of wells
7 within -- all the wells within 1 mile, you multiplied
8 it by 1,500, and you got your --

9 A. Less than 1 gallon per minute for foot
10 geometric mean.

11 Q. I thought you said it was 2 gallons
12 per -- or am I?

13 A. No. What I said was if you use 1,500
14 times the specific capacity divided by the
15 approximate saturated aquifer thickness because that
16 varies, you get around 2 feet per day.

17 Q. Okay. You did say that one thing you do
18 when you make -- when you conduct the modeling
19 exercises is you look at previous modeling reports?

20 A. Correct.

21 Q. Did you look at the previous modeling
22 report for permit IM-340?

23 A. I did not even know that existed.

24 Q. Were you here yesterday when there was
25 testimony about it?

1 A. I was.

2 Q. Could you turn to Exhibit Q. If you turn
3 to page 21 -- so I'm sorry. Before we turn you said
4 so looking at this, you had not reviewed this before,
5 right?

6 A. No. I did not know this existed at the
7 time that we made the submission.

8 Q. Okay. So if you turn to page 21.

9 COMMISSIONER CLUM: Go ahead.

10 MR. YSKAMP: I'll wait.

11 COMMISSIONER CLUM: I'll look at his.

12 Q. On 21 at the bottom, "3.3.5 Hydraulic
13 Conductivity," and it states there "Bowser-Morner
14 estimated initial hydraulic conductivity for the
15 bedrock aquifer using pump test data recorded on ODNR
16 well logs." It's pretty much the same thing you did,
17 right?

18 A. Correct.

19 Q. And they say "Initially the ODNR database
20 was filtered-logs with incomplete or missing data or
21 logs which indicated that the well was completed in
22 sand, gravel, or sand & gravel were removed from the
23 calculations." So you said that you did remove the
24 wells that you couldn't do the pump test with which I
25 assume --

1 A. We didn't remove them. Just there was no
2 data to calculate a specific capacity.

3 Q. Okay. Did you remove the wells that were
4 completed in the sand gravel -- in the sand and
5 gravel?

6 A. Yeah. We did not include sand and gravel
7 wells. Well, in this -- in plate 8 -- or plate 9,
8 I'm sorry, of Exhibit G, yes. Those are all the
9 wells.

10 CHAIRMAN McCARTER: That would be --

11 A. Sand and gravel wells and bedrock.

12 CHAIRMAN McCARTER: So that would be
13 level one versus level three?

14 THE WITNESS: No. It's not that
15 specific. Sand and gravel exists in multiple layers
16 in the model. So it was -- it was all the wells
17 regardless of which layer they were in. The sand and
18 gravel is modeled as separate hydraulic conductivity
19 zones within a specific layer.

20 CHAIRMAN McCARTER: So you determined
21 based on the well logs whether it was developed in a
22 sand and gravel layer?

23 THE WITNESS: Correct.

24 CHAIRMAN McCARTER: Okay. Thank you.

25 Go ahead.

1 Q. (By Mr. Yskamp) So I want you --

2 MS. OSTERMAN: Which exhibit did he say
3 you have everything on? You just were saying --

4 CHAIRMAN McCARTER: Plate 9.

5 MS. OSTERMAN: Plate 9, okay.

6 THE WITNESS: Plate 9 of Exhibit G.

7 MS. OSTERMAN: Okay. Thank you.

8 CHAIRMAN McCARTER: Go ahead.

9 Q. (By Mr. Yskamp) Yeah. I had -- I thought
10 you said you used all the wells within 1 mile of
11 plate 9.

12 A. I used all the bedrock wells within 1
13 mile.

14 Q. Okay.

15 A. I took that data, it's very easy to do in
16 GIS, I said give me a table of all the wells within 1
17 mile. I sorted them and eliminated sand and gravel
18 wells and calculated the hydraulic conductivity for
19 the bedrock wells within that area.

20 Q. Okay. So looking at their calculations,
21 they have specific capacity, pumping rate divided by
22 the recorded drawdown, right?

23 A. Correct.

24 Q. And then they have aquifer
25 transmissivity, calculated specific capacity

1 multiplied by the constant 2,000 for confined systems
2 and 1,500 for unconfined systems.

3 A. Uh-huh.

4 Q. You multiplied everything by 1,500,
5 right?

6 A. I did for that statistical exercise, yes.
7 And if I had multiplied by 2,000, then we would have
8 had one-third higher hydraulic conductivity to start
9 with. We would have wound up in the same place we're
10 at.

11 Q. But don't you have to do that for
12 confined systems multiplied by 2,000?

13 A. Strictly speaking, yes. And, then again,
14 like I said, if we had used 2,000 or sorted and
15 parsed them, we would have come up with some number
16 for transmissivity between 1,500 and 2,000 gallons
17 per day per foot. Not greatly different than where
18 we've wound up. We would have wound up with the same
19 conclusion.

20 Q. You would have knocked it down to 1 -- 1
21 foot per day anyway.

22 A. I still would have wound up there.

23 Q. So the last sentence of the first
24 paragraph notes that the well's specific estimate
25 hydraulic conductivity value used to calculate a

1 geometric mean of 12 foot per day.

2 CHAIRMAN McCARTER: You've changed pages
3 to page 22?

4 MR. YSKAMP: Yeah. I am on page 22.

5 Q. So they came up with a much higher mean
6 than you did.

7 A. And I don't know what their dataset looks
8 like.

9 Q. And we really -- you didn't really
10 provide yours either though.

11 A. The specific capacities are all on the
12 table in the report. And they are all on the plate 9
13 of Exhibit G.

14 Q. When you say just 1 mile, do you mean 1
15 mile in every direction, you gathered the wells, the
16 distance?

17 A. 1 mile from the perimeter of the quarry
18 areas in every direction.

19 Q. And you didn't differentiate between the
20 upper bedrock aquifer and the lower bed aquifer?

21 A. No.

22 Q. Is there a difference in permeability
23 between the upper bedrock aquifer and the lower
24 bedrock aquifer?

25 A. There may be; there may not be. That's

1 not something that's defined.

2 Q. You don't need to know that when you
3 calculate a hydraulic conductivity?

4 A. If you can sort that out, then fine but
5 there's not data available to do that. Every well
6 that is completed into the lower aquifer is also
7 crossing the upper aquifer. So unless you've got
8 pumping test data from something that's completed in
9 a specific aquifer, you don't know that.

10 Q. Did you look for something like that?

11 A. Yeah.

12 Q. And you didn't find anything.

13 A. No.

14 Q. Could you please turn to Appellants'
15 Exhibit Y which I believe is in Volume 2. Do you
16 recognize this document?

17 A. Yes.

18 Q. This is the standard -- ASTM Standard
19 Guide for Conceptualization of Characterization of
20 Ground-Water Systems?

21 A. It is.

22 Q. And you talked about how you
23 conceptualized the model earlier, right?

24 A. Correct.

25 Q. So you agree this would apply to the

1 model work that you do.

2 A. You follow the ASTM standards to the
3 point necessary to meet the regulations for the
4 submittal that we're making.

5 Q. Don't the regulations say to follow the
6 ASTM standards?

7 A. They do.

8 Q. So okay.

9 A. And we follow them to the point necessary
10 to meet the requirements of ODNR.

11 Q. Okay. And you said you've seen this
12 standard before?

13 A. Uh-huh.

14 Q. If you would turn to page 5, Bates No.
15 4850. And so the first -- under part 10,
16 "Hydrogeologic Characterization," so you would -- you
17 would agree that hydrogeologic characterization is
18 important for the groundwater model, right?

19 A. Certainly.

20 Q. Says -- 10.1 says to "Characterize,
21 quantify, and evaluate the uncertainty of the
22 hydrostratigraphic units in terms of thickness,
23 porosity, permeability, hydraulic conductivity (or
24 soil characteristic functions) transmissivity, and
25 storativity." So do you agree that you should do

1 that for the model?

2 A. For some of those parameters, yes; for
3 others, no. Porosity and storativity aren't required
4 for steady state groundwater flow model in MODFLOW.

5 Q. But hydraulic conductivity and
6 transmissivity does.

7 A. Correct, and those were accounted for.

8 Q. Isn't permeability an important part of
9 hydraulic conductivity?

10 A. It relates.

11 Q. And if it's more perm --

12 A. It's not a term that you have to define
13 spatially within the model, permeability.

14 Q. But if it's more permeable, you're going
15 to have higher hydraulic conductivity, right?

16 A. True.

17 Q. So if the upper bedrock aquifer, model
18 area one, is more permeable than the lower bedrock
19 aquifer in model area layer three, it's going to have
20 a higher hydraulic conductivity?

21 A. If.

22 Q. And you have them both, at least for the
23 permit area and immediate adjacent areas, uniform 1
24 foot per day.

25 A. I have treated them that way, yes.

1 Q. Could you look to 10.2. It says
2 "Characterize, quantify, and evaluate the uncertainty
3 of the hydrostructural units, such as faults,
4 fracture zones, fractured materials, and karst
5 conduits, in terms of thickness, porosity,
6 permeability, hydraulic conductivity, transmissivity,
7 and storativity. Fracture and fracture/karst
8 porosity and permeability values, or hydraulic
9 conductivity, transmissivity, and storativity values
10 may be quantified based on aquifer tests, laboratory
11 analysis, or parameter estimation."

12 A. That's what it says.

13 Q. Did you do any -- look at any aquifer
14 tests to try to quantify any of those values?

15 A. The aquifer tests that I looked at had
16 nothing to do with karst.

17 Q. You didn't -- did you even attempt during
18 your modeling to identify fractures, faults, or karst
19 features?

20 A. There's not sufficient information to
21 model the fractured system without extensive
22 investigations that are not required for this type of
23 a model.

24 Q. But that isn't what the ASTM standard
25 says, is it?

1 A. The ASTM standard is a guideline, and
2 each ASTM standard associated with groundwater flow
3 modeling says that. It says these are a set of
4 guidelines. You do what's necessary in a given
5 situation. Use professional judgment. We don't have
6 to go out and do a bunch of extra work in the field
7 for the ODNR requirements for these models.

8 Q. Just a little more about hydraulic
9 conductivity. Because it's -- I hope measure is the
10 right word. Because it's a measure of flow rates if
11 you raise the hydraulic conductivity, is it likely to
12 expand the cone of depression?

13 A. In order to maintain calibration in the
14 model, if you increase the hydraulic conductivity,
15 you would have to increase the recharge and the two
16 would balance out and you would probably have about
17 the same definition of the 10 foot drawdown contour
18 that you do now.

19 Q. So you -- so you feel like it's that
20 simple, you increase the hydraulic conductivity, the
21 recharge is going to increase, it's all going to
22 balance out.

23 A. Within realistic parameters, yeah.

24 Q. What do you base that off of?

25 A. That's the math of the model. If you

1 model -- if I take an increase of hydraulic
2 conductivity, and this is what I said we started
3 with, a much higher hydraulic conductivity, our model
4 heads were way too low. So we ended up with through
5 the specific capacity data reducing the hydraulic
6 conductivity, and we came to the calibration that we
7 came to.

8 Q. Could you turn to Exhibit FF in Volume 2.
9 Have you seen this document before?

10 A. I believe I have.

11 Q. Did you happen to come across it --

12 A. Yes, I have, Rich Bendula's paper, yes.

13 Q. Did you come across it during your
14 modeling review at all?

15 A. Uh-huh.

16 Q. Did you utilize it in your review?

17 A. No.

18 Q. If you look down at the study area,
19 figure 1, bottom right corner, do you recognize about
20 where the permit area would be on this map?

21 A. It would be toward the very south. I'm
22 not even sure it's on this map honestly. It might be
23 there in the south central part of it.

24 Q. Isn't it between R5 and 6 and R9 and 10?

25 A. Between? I'm sorry. Say that again.

1 Q. So do you see where the R5 and 6, the
2 black dots, and R9 and 10?

3 A. I don't think that's the permit area.
4 It's not a great map, but I don't think that's the
5 permit area.

6 Q. You see Mad River Township on there,
7 right?

8 A. I do.

9 Q. Okay. So this is -- if the permit area
10 isn't on here, it's close, isn't it?

11 A. It's south of this, I think.

12 MS. OSTERMAN: Do you see where Clark and
13 Greene Counties meet?

14 THE WITNESS: Yeah.

15 Q. So it couldn't be south, right?

16 A. Excuse me?

17 Q. So Greene County is down here to the
18 south, so it has to be on here.

19 A. Well, there is a jog in the county line
20 right there; it drops to the south.

21 Q. Okay. Would you --

22 A. If it's on here, it's not between those
23 R5 and 6 and R9 and 10 because those roads just don't
24 make sense.

25 Q. Okay. Well, this study area is at least

1 in Clark County, Ohio, right?

2 A. Correct.

3 Q. And it encompasses Mad River Township.

4 A. Correct.

5 Q. If you turn to the second page.

6 A. Clark Mad River Township.

7 Q. So if you look at figure 2, do you agree
8 with the general characterization of the different
9 layers?

10 A. In general but I'm not sure where this
11 cross-section is at.

12 Q. I think it just says generalized geologic
13 cross-section.

14 A. It has an A-A prime, but it does say
15 generalized. I mean, the stratigraphy is more or
16 less correct.

17 Q. So there is a Lockport dolomite,
18 sub-Lockport limestone?

19 A. Uh-huh.

20 CHAIRMAN McCARTER: You raised a
21 reference to A and A prime on figure 1.

22 THE WITNESS: Oh, I see the diagonal line
23 there, yes --

24 Q. Yep.

25 THE WITNESS: -- from Donnesville.

1 Q. It's still a very -- a pretty large
2 cross-section.

3 A. Right.

4 Q. Okay. So turning back to page -- the
5 second page, which is Bates No. 4885, the first
6 paragraph here, if you follow along with me, reads
7 "The upper portions of the Lockport Dolomite can be
8 highly weathered with solution channels present along
9 the regularly spaced joints and fractures. The
10 occurrence of interconnected joints and fractures can
11 promote the rapid infiltration of surface water into
12 the aquifer in areas where the bedrock is at shallow
13 depths. Water wells that tap the fractured and
14 weathered portions of the Lockport Dolomite aquifer
15 can yield up to 30 to 50 gallons per minute or
16 sub-Lockport Limestone aquifer may have significantly
17 lower yields (3 to 10 gallons per minute)." So
18 given -- given the potential differences there, don't
19 you want to separate the model levels in terms of
20 hydraulic conductivity, model layer one, model layer
21 three?

22 A. The data from the well logs don't
23 indicate a separation there. You can't define that
24 from the well log data. So what am I going to base
25 that on? Just an assumption that, gee, it's going to

1 be higher? There's nothing to define that it is
2 higher within the study area. If I had site-specific
3 data, then I might make that conclusion, yes.

4 Q. You couldn't -- you read all this
5 literature and you don't --

6 A. It's not that I didn't take it into
7 account but in the end there's nothing to support it
8 from the actual data from around the site, so I
9 didn't -- I didn't model what might be.

10 Q. Let me ask you this, do you -- do you
11 think that both the area in model layer one that you
12 labeled 1 foot per day and area model layer three you
13 labeled 1 foot per day, do you think in actuality
14 that's accurate?

15 A. It may be. I don't know.

16 CHAIRMAN McCARTER: Let me --

17 A. The specific capacity data suggests it.

18 CHAIRMAN McCARTER: Let me ask you this,
19 you've made several references that certain things
20 weren't required by ODNR. What's the basis for
21 saying that things weren't required?

22 THE WITNESS: Because the regulations
23 require that you do this with available data. They
24 don't require that you go out and do site-specific
25 investigations.

1 CHAIRMAN McCARTER: Do you have
2 regulation 1501:14-5-01 in front of you there?

3 THE WITNESS: I don't know that I do
4 unless it's over here. Here we go.

5 CHAIRMAN McCARTER: And I direct your
6 attention on the first page down to (B) (2). Take a
7 look at that, please.

8 So with regard to your statements about
9 not being required further by ODNR, is this the
10 regulation you're referencing, (B) (2)?

11 THE WITNESS: It is.

12 CHAIRMAN McCARTER: So it's that "The
13 description shall contain information available in
14 the public domain related to groundwater hydrology"?

15 THE WITNESS: Correct.

16 CHAIRMAN McCARTER: Okay. And that's
17 your basis for not having -- being required to go
18 beyond use of the information in the well logs; is
19 that correct?

20 THE WITNESS: The use of information in
21 the well logs and other published reports, publicly
22 available data.

23 CHAIRMAN McCARTER: Okay. I just feel
24 that we've been talking around that subject for an
25 hour. That's why I wanted to get this out as to what

1 the specific limitations are. You're welcome to your
2 questions. It's just that that seemed to be where he
3 was basing his limitations on. Go ahead.

4 Q. (By Mr. Yskamp) Okay. Staying with this
5 provision, could you turn to page 3 of 5.

6 COMMISSIONER CLUM: What exhibit?

7 MS. OSTERMAN: 3 of 4 you said?

8 CHAIRMAN McCARTER: It's the statute --
9 or it's the rule.

10 COMMISSIONER BIRT: We are back to this
11 again.

12 MR. YSKAMP: Still on the statute -- or
13 Code provision.

14 CHAIRMAN McCARTER: Rule.

15 Q. So part (C) is "Ground water model
16 submitted by the applicant." That's actually what
17 you intended to submit, right?

18 A. That's correct. We submitted a
19 groundwater model.

20 Q. Okay. Second sentence says "The model
21 must accurately reflect the ground water flow
22 conditions associated with the hydrologic study area
23 and be consistent with ASTM international standards."

24 A. Is that a question?

25 Q. You do agree you have to comply with

1 that.

2 A. Yes.

3 Q. And then the last sentence states "The
4 submission shall include detailed explanations of the
5 hydrologic and geologic parameters used to construct
6 the model and the model results must be in a format
7 prescribed by the chief." So you would agree you
8 have to comply with that, right?

9 A. Yes.

10 Q. Could you turn to Exhibit JJ.

11 Just give me one second.

12 MS. OSTERMAN: JJ?

13 MR. YSKAMP: JJ, yeah.

14 Q. Okay. If you could turn to the appendix
15 of JJ which is at Bates No. 001719. And I think you
16 testified a little bit about this document earlier,
17 right?

18 A. Yes.

19 Q. Okay. And this is your response to Kelly
20 Barrett's questions.

21 A. That's correct.

22 Q. If you turn to question response --
23 question 3 response 3 at Bates No. 1720.

24 A. Uh-huh.

25 Q. So her question 3, her question relates

1 to what the alternative supply for wells located
2 close to the mine will be once dewatering -- or once
3 mining -- if mining goes to the base of the carbonate
4 aquifer, right?

5 A. Correct.

6 Q. And I want to -- your response, the very
7 last paragraph, I want to ask you about your response
8 related to your evaluation near Echo Hills. So you
9 say an "Evaluation was also made of the remaining
10 saturation to be expected at closest residences to
11 the Phase II quarry area. On the west side of the
12 Phase II area at the closest residences in the Echo
13 Hills subdivision and along Hagan Road the remaining
14 amount of saturation was between 21 and 26 feet."

15 Now, that remaining amount of saturation,
16 did that come from after you ran the model?

17 A. Yes.

18 Q. You said earlier that you run the model
19 using the model heads?

20 A. Yes.

21 Q. So if we turn to Exhibit G, plate 13 --
22 no, that is not it. That is the wrong plate. It is
23 plate 11. Looking on -- and this is the residuals
24 map, right?

25 A. Correct.

1 Q. For a 10 foot --

2 A. One of them.

3 Q. I'm sorry.

4 A. It's one of the residuals maps.

5 Q. Okay. This is a residuals map for model
6 layer three?

7 A. That's correct.

8 Q. And this is the lower Bedrock aquifer.

9 A. Correct.

10 Q. And what's -- what do you feel is an
11 acceptable residual for a 10 foot drawdown contour?

12 A. I don't know that that's even a fair
13 question to ask. The residuals are what they are.
14 You try to average everything out. As I pointed out
15 earlier, the well log data has an inherent built in
16 amount of error and variability that you're never
17 going to get residuals for every well or within
18 5 feet, say, for instance, so I don't -- I don't know
19 how to define an acceptable residual for any given
20 well.

21 Q. Okay. If you look at the cluster of
22 residuals to the west of Phase 2 in the Echo Hills
23 development, would you consider those acceptable
24 residuals?

25 A. Let's say I wasn't happy with them and I

1 explained in the text we recognize the differences in
2 water levels and I discussed that in earlier
3 testimony today. They are what they are. We'll go
4 out and do well surveys and get water level data and
5 find out what they really are.

6 Q. So these are negative -- the -- in the
7 Echo Hills development, the cluster are negative
8 residuals, right?

9 A. That's correct.

10 Q. And that means the modeled water level
11 was higher than the observed water levels.

12 A. That's correct.

13 Q. So how can -- so looking to the closest
14 wells to Phase 2, I'm seeing -- let me know -- can
15 you see those, the numbers next them?

16 A. I can't read the numbers on this, no. I
17 can see it.

18 MS. OSTERMAN: There's a big one
19 somewhere, I think.

20 MR. YSKAMP: I think they brought a bunch
21 of. We don't have one, but I think you might have
22 one.

23 MR. BALL: I don't remember seeing a
24 big --

25 MS. OSTERMAN: A big 11?

1 CHAIRMAN McCARTER: Ms. Barrett had
2 younger eyes.

3 MS. OSTERMAN: Do you want my magic --

4 THE WITNESS: Magnifier? If I have to
5 read the numbers.

6 Q. So I think --

7 CHAIRMAN McCARTER: Hang on.

8 A. It's in the report. We can get a paper
9 copy of that. Thanks.

10 MS. OSTERMAN: Don't take that with you.
11 Give that back to me.

12 THE WITNESS: Yeah, I will get it back.

13 Yeah. Is that 11?

14 MR. HARPER: Yeah.

15 A. Okay. Now I have something I can read.

16 Q. Okay. So in looking at the wells closest
17 to Phase 2, can you read those residuals for me in
18 the Echo Hills development?

19 A. Uh-huh. Minus 43, minus 37.6, minus
20 10.5. Do you need me to read them all?

21 Q. No, that's okay. My question is with
22 those residuals how can you be confident there will
23 be 21 to 26 feet of saturation?

24 A. It gets back to the same argument that we
25 discussed about the Culbertson well.

1 Q. It's just impossible.

2 A. You're not going to dewater everything
3 down to the quarry elevation outside of the floor of
4 the quarry. There's going to be -- there's going to
5 be a level of saturation remaining in the aquifer.

6 Q. These wells are, what, within 200 feet of
7 the quarry?

8 A. Perhaps.

9 Q. And you think it's impossible that
10 they'll be dewatered?

11 A. Completely dewatered?

12 MR. BALL: Objection.

13 A. To the point where they can't be
14 replaced? Yeah, that's impossible.

15 CHAIRMAN McCARTER: Hang on. Hang on.
16 The objection?

17 MR. COLBERT: It's a mischaracterization
18 of his testimony.

19 CHAIRMAN McCARTER: It was a question.
20 Go ahead and answer.

21 A. Can you state the question again?

22 Q. So you think it's impossible for these
23 wells to be dewatered.

24 A. If they're not completely to the base of
25 the carbonate, they could be dewatered, and then they

1 could be deepened and replaced.

2 Q. Deepened into where?

3 A. If they're not to the base of the
4 carbonate, if they're not drilled, they could be
5 dewatered. If they --

6 CHAIRMAN McCARTER: You mean the wells
7 aren't to the base of the carbonate.

8 THE WITNESS: Correct. If they are not
9 drilled completely through the entire extent of the
10 carbonate, then they could be dewatered, and you
11 would have to remediate them.

12 Q. My question relates back to you said you
13 modeled 21 to 26 feet of saturation in this area?

14 A. Right.

15 Q. And then we have 30, 40 feet residuals,
16 negative residuals.

17 A. This is the same discussion we had with
18 Culbertson.

19 Q. So you just --

20 A. You're not going to dewater the entire
21 aquifer.

22 Q. Well, say you --

23 A. It can't happen.

24 Q. Even if you have 20 feet of water in the
25 aquifer, what would the yield be for that?

1 A. I don't know until we drill the water.

2 Q. How do you know it's going to be enough
3 to have a comparable water supply?

4 A. Because we can do things to make that
5 happen.

6 Q. Like what?

7 A. Like engineering, like storage. Even if
8 the yield's lower, if it pumps 1 gallon a minute
9 where they used to pump 3 gallons a minute, we can
10 put in storage to maintain their supply at an
11 adequate level.

12 Q. Do you consider that a comparable water
13 supply?

14 A. I do.

15 MR. YSKAMP: That's all the questions I
16 have.

17 CHAIRMAN McCARTER: Okay. Break for
18 today.

19 We're going to resume our hearing on our
20 schedule. I would remind the parties about the order
21 relating to closings. We do not intend to extend
22 that, so you ought to start on your closings if
23 you're worried about time.

24 Anything further?

25 MR. BALL: No.

1 CHAIRMAN McCARTER: Okay. We are done
2 for today.

3 (Thereupon, at 4:35 p.m., the hearing was
4 adjourned.)

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CERTIFICATE

I do hereby certify that the foregoing is
a true and correct transcript of the proceedings
taken by me in this matter on Thursday, April 26,
2018, and carefully compared with my original
stenographic notes.

Karen Sue Gibson, Registered
Merit Reporter.

(KSG-6540)

- - -

1 RECLAMATION COMMISSION:

2 Mr. Sean A. McCarter, Chairman
3 Ms. Koral A. Clum
4 Mr. Richard Birt
5 Mr. George E. Mizer
6 Mr. Ray Rummell
7 Mr. Craig N. Porter

8 Ms. Linda Osterman, Hearing Officer

9 APPEARANCES:

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22 On behalf of the Appellee.

23 Eastman & Smith Ltd.
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and

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100 East Broad Street, 21st Floor
Columbus, Ohio 43215

On behalf of the Intervenor.

- - -

1 Wednesday Morning Session,

2 May 9, 2018.

3 - - -

4 CHAIRMAN McCARTER: We're on the record.

5 Okay. Today we reconvene the hearing in
6 the matter of the CAM, et al., versus the Division of
7 Mineral Resources Management and Intervenor Enon Sand
8 & Gravel, Case Nos. RC-17-004, 5, and 6. Today's
9 date is May 9, 2018. This hearing is being held at
10 the Fountain Square Complex in Columbus, Ohio.

11 Members of the Commission that are
12 present at the hearing will now introduce themselves.

13 COMMISSIONER PORTER: Craig Porter.

14 COMMISSIONER RUMMELL: Ray Rummell.

15 COMMISSIONER MIZER: George Mizer.

16 CHAIRMAN McCARTER: Sean McCarter.

17 COMMISSIONER BIRT: Rick Birt.

18 COMMISSIONER CLUM: Koral Clum.

19 MS. OSTERMAN: And I'm Linda Osterman,
20 the Commission's Hearing Officer.

21 CHAIRMAN McCARTER: At this time the
22 representatives to the parties for this appeal shall
23 enter their appearances on the record.

24 MR. YSKAMP: James Yskamp, counsel for
25 appellants.

1 MR. HUNTER: Nathan Hunter, counsel for
2 appellants.

3 MS. COREY: Molly Corey, Ohio Attorney
4 General's Office, counsel for the Division.

5 MR. BALL: Brian Ball, Ohio Attorney
6 General's Office, counsel for the Division.

7 MR. BARGER: Brian Barger on behalf of
8 Intervenor Enon Sand & Gravel.

9 MR. HARPER: Matt Harper on behalf of
10 Intervenor Enon Sand & Gravel, LLC.

11 CHAIRMAN McCARTER: When we finished on
12 April 26, CAM had concluded its cross-examination of
13 Enon's witness Steve Champa. Therefore, we'll begin
14 today with Division's cross-examination of
15 Mr. Champa.

16 Please check that your cell phones are
17 audibly deactivated.

18 Mr. Champa, would you please take a seat
19 in the witness chair. You're still under oath.

20 Mr. Ball, you may begin your examination.

21 MR. BALL: Thank you, Mr. Chairman.

22 - - -

23

24

25

1 STEPHEN CHAMPA

2 being previously duly sworn, as prescribed by law,
3 was examined and testified further as follows:

4 CROSS-EXAMINATION

5 By Mr. Ball:

6 Q. Good morning, Steve. How are you today?

7 A. I'm fine. How are you?

8 Q. Good, good. Well, we'll start with last
9 time we were deep into some scientific stuff so I
10 want to take you back, channel those moments about
11 your model. In the binders in front of you you will
12 have various exhibits, of course. One would be the
13 large book below the smaller book. Yeah, I think
14 that's the singular one, probably says Appellee
15 Exhibits on the cover; is that right? Has it got
16 number tabs perhaps?

17 A. It does have number taps, yes.

18 Q. Number tabs? Let's go to 13. And
19 there's little numbers on the bottom right corner in
20 there and I'm going to direct you to the figures
21 within Appellee Exhibit 13 and those would be
22 consecutively Bates stamped numbered pages. There's
23 figures 5, 7, and 8, plate numbers 4186, 4188, and
24 then 4189. Do you see those?

25 A. Yes, sir.

1 Q. All right. Can you explain on those what
2 is represented?

3 CHAIRMAN McCARTER: Hang on. Let us get
4 to it, please.

5 MR. BALL: Sorry. Thank you. Okay?

6 CHAIRMAN McCARTER: No. Hang on.

7 Okay. Thank you.

8 MR. BALL: All right. Thank you.

9 Q. (By Mr. Ball) Around the border of the
10 paper we see it looks like shaded colored boxes, I
11 guess. I guess maybe you referred to them as nodes,
12 and it's the singular column or row of nodes that at
13 the very edge extreme of the figure. Can you explain
14 why the different colors around those boundaries and
15 those figures?

16 A. The colors represent different
17 elevations. Those nodes are what we call constant
18 head nodes, and so we use those to set elevations for
19 the flow system around the boundaries of the model.

20 Q. And would that then control the flow
21 across the interior of the figure?

22 A. It has part to do with that, yes.

23 Q. I wanted to ask you to define a series of
24 terms for me and they may interrelate somehow, so
25 I'll just list the terms for you and then we'll

1 handle them one by one. One is boundary conditions,
2 one is steady state, and one is constraining the
3 model. Are you familiar with those terms and
4 concepts?

5 A. I am.

6 Q. Are you familiar and could you describe
7 for us what is meant by "boundary conditions"?

8 A. Boundary conditions are things like
9 constant head nodes, no flow boundaries, which we
10 have with some of the inactive cells that are shown
11 in black on this figure, river nodes which we use to
12 simulate the streams, pumping wells. Those are
13 different boundary conditions that we have in this
14 model.

15 Q. And regarding the term "steady state,"
16 can you explain that for us?

17 A. Steady state is achieved when you run a
18 model to where everything is at an equilibrated
19 condition. So there are two types of models in
20 general, transient models in which you run the model
21 for at different time steps. You can look at the
22 outputs at different times along the way and that
23 requires some different inputs also in a steady state
24 model.

25 Q. When you did the model at hand that you

1 turned in for these contours, did this steady state
2 come into play at some point in your calculations?

3 A. It is a steady state model by definition,
4 yes.

5 Q. Are you familiar with the terminology
6 "constraining the model"?

7 A. Yes.

8 Q. What does that mean?

9 A. It means it can -- it can be done in
10 several different ways. It generally means doing
11 something to the model that controls the results.

12 Q. For instance, if your boundaries within
13 the figures 5 and sequence 7 and 8 were brought in
14 say to the edges of the mine in the middle, would
15 your model be so constrained that you wouldn't have
16 enough availability to characterize flow across the
17 area?

18 A. It could very well be.

19 Q. What's the -- while we have been -- we've
20 been earlier in the case to Appellants' Exhibit G,
21 plate 9, and I would like to look at that again and
22 it's in another book, the other two books you have
23 there, the first of two, G. And that's page 4594.

24 A. For plate 9?

25 Q. Yeah.

1 A. It says 4595.

2 Q. Oh, sorry. My bad.

3 A. Making sure we're on the same plate.

4 Q. You're right. Okay. And on that page,
5 let me see, make sure I'm on the right one. I'm
6 sorry, I misspoke. I wanted to be on plate 8 which
7 is 4594 rather than plate 9. Thank you.

8 MR. HARPER: If I can interrupt. I have
9 that -- I have that plate --

10 MR. BALL: On a blowup?

11 MR. HARPER: -- on a larger board. Would
12 you --

13 MR. BALL: Thanks, Matt. I'll be happy
14 to get it out. Appreciate it.

15 Q. I've placed on the easel what's been
16 identified as plate 8 of the Eagon report. The page
17 number is 4594. Do you recognize that?

18 A. Yes, I do.

19 Q. And what is that?

20 A. That is a map showing the potentiometric
21 surface which is the lines in blue that we drew based
22 on published flow interpretations and the water well
23 log data from the Department of Natural Resources.
24 The red lines are the model generated potentiometric
25 surface.

1 Q. So the red are the calibrated model heads
2 then?

3 A. That's correct.

4 Q. And the blue lines are the potentiometric
5 surface contours?

6 A. That's correct.

7 Q. Okay. What does a close comparison
8 between these series of contours suggest?

9 A. That we have an accurate depiction of the
10 groundwater flow system both from the standpoint of
11 water levels in the aquifer, flow directions, and
12 horizontal gradients.

13 Q. And does your model include more than one
14 value for hydraulic gradient?

15 A. The hydraulic gradient is not an input
16 with the model.

17 Q. Okay. I'm sorry. Hydraulic
18 conductivity.

19 A. It does include more than one.

20 Q. It does include more than one value?

21 A. It does.

22 Q. And we've looked at those values
23 throughout the course of this proceeding, haven't we?

24 A. Yes, we have.

25 Q. Do you recall the discussion we had last

1 time you were here about the ASTM standards?

2 A. I do.

3 Q. I would like to direct your attention in
4 appellants exhibits to Y. And that's that CAM
5 Production page 4846. Do you see that?

6 A. I do.

7 Q. And this is standard D5979-96 "Standard
8 Guide for Conceptualization and Characterization of
9 Ground-Water Systems," right?

10 A. That's correct.

11 Q. And this ASTM standard reads at section
12 1.2 there on the first page, if you would like to
13 follow along, "This guide may be used at any scale of
14 investigation, including site specific, subregional,
15 and regional applications." Do you see that?

16 A. Yes, I do.

17 Q. So this model that Eagon submitted to the
18 State being a regional model in design, it conforms
19 to this provision of the ASTM standard; isn't that
20 right?

21 A. That's correct.

22 Q. The ASTM standard also reads at section
23 1.10 "This guide offers an organized collection of
24 information or a series of options and does not
25 recommend a specific course of action"; isn't that

1 right?

2 A. That's correct.

3 Q. Inherent in the words of this standard a
4 specific course of action is not recommended to the
5 modeler, is it?

6 A. No, it's not.

7 Q. This portion of the ASTM standard at 1.10
8 continues "This document cannot replace education or
9 experience and should not be used in conjunction with
10 professional -- used instead of professional
11 judgment"; isn't -- isn't that right?

12 A. That's correct.

13 Q. Not all aspects of this guide may be
14 applicable in all circumstances, right?

15 A. Correct.

16 Q. And, finally, this ASTM standard is not
17 intended to represent or replace the standard of care
18 by which the adequacy of a given professional service
19 must be judged, nor should this document be applied
20 without consideration of a project's many unique
21 aspects," right?

22 A. Correct.

23 Q. So inherent in here as that specific
24 clause does not require you to ignore the standard of
25 care required by a licensed professional geologist

1 such as yourself, would it?

2 A. No. That's correct.

3 Q. Nor would it require you to ignore
4 necessary adjustments to values incorporated in your
5 model, would it?

6 A. No, it would not.

7 Q. From this series of passages, would you
8 agree that a modeler's own considerations trump an
9 uninspired application of the ASTM standard?

10 A. Yes.

11 Q. And this ASTM standard continues to read
12 at 1.5 "This guide does not address the specific
13 methods for characterizing hydrogeologic and
14 ground-water system properties," right?

15 A. That's correct.

16 Q. "This guide does not address model
17 selection, design, or attribution for use in the
18 process of ground-water flow system characterization
19 and quantification. This guide does not address the
20 process of model schematization, including the
21 simplification of hydrologic systems and the
22 representation of hydrogeologic parameters in
23 models," right?

24 A. That's correct.

25 Q. And 1.7, "This guide does not address

1 special considerations required for characterization
2 of karst and fractured rock terrain," right?

3 A. That's correct.

4 Q. And "This guide" at 1.8 "does not address
5 special considerations regarding the source, fate,
6 and movement of chemicals in the subsurface," right?

7 A. That's correct.

8 Q. From this series of passages, would you
9 agree that a modeler's necessary adjustments to
10 values entered in the model is actually supported by
11 the ASTM standard?

12 A. I would.

13 Q. Do you believe that the discretion you
14 exercised in adjusting model parameters was performed
15 to a generally accepted standard in the scientific
16 community?

17 A. I do.

18 Q. In your opinion does compliance with the
19 ASTM standards require you to abandon your
20 professional discretion?

21 A. Not at all.

22 MR. BALL: No further questions of this
23 witness. Thank you.

24 CHAIRMAN McCARTER: Thank you.

25 Follow-up?

1 MR. HARPER: Thank you, Mr. Chairman.

2 - - -

3 REDIRECT EXAMINATION

4 By Mr. Harper:

5 Q. Mr. Champa, good morning. How many
6 points of well data did you use in preparing the
7 Eagon model?

8 A. Approximately 2,000.

9 Q. And with reference perhaps to plate 8
10 that's already up which, again, is -- make sure I
11 have the correct reference -- CAM Prod 4594 of
12 Exhibit G, can you tell us again how you utilized the
13 well log data in the preparation of the report?

14 A. We used the well log data in several ways
15 with regard to plate 8. We used the water level
16 elevations that were available from the well log data
17 to create the potentiometric surface that was our
18 calibration target for the model. We used the well
19 log data in preparation of hydrogeologic
20 cross-sections. We used the well log data to
21 calculate EGS specific capacities of available wells.

22 Q. With regard to specific capacities, let
23 me direct you to plate 9 of the Eagon report marked
24 as Exhibit G, CAM Prod 4595. And can you explain to
25 us again how you used the approximately 2,000 points

1 of well log data in the course of preparing your
2 plate showing specific capacity for the area of the
3 model?

4 A. On the well logs, the ones that are
5 usable for this, there will be a pumping rate and a
6 drawdown since specific capacity is pumping rate
7 divided by drawdown, and so we calculated those
8 values. I believe they're summarized on one of the
9 tables in the report. And then we plotted them on
10 this map on plate 8. We used a color shade to show
11 distinction between different values on this with the
12 white areas being the lowest specific capacities and
13 the dark brown areas, which is up here and down to
14 the south, being the highest specific capacities.

15 Q. All right.

16 MR. YSKAMP: I'm sorry. I think I'm
17 lost. What plate are we on?

18 MR. HARPER: This is plate 9. I
19 apologize. Here, let me -- I didn't mean to cause
20 confusion.

21 MR. YSKAMP: I thought he said 8.

22 THE WITNESS: I may have misspoken.

23 MR. YSKAMP: Okay.

24 THE WITNESS: Plate 9.

25

1 MR. HARPER: I had 8 peeking out. It
2 might have thrown you off, but we were talking about
3 plate 9 from Exhibit G.

4 Q. (By Mr. Harper) With regard to your
5 groundwater model and the well logs, I would ask you
6 to look at Exhibit G, specifically page 5, which
7 would be identified as CAM Prod 4170. If you and the
8 Commission will just let me know when you're there,
9 I'll continue.

10 CHAIRMAN McCARTER: 4170?

11 MR. HARPER: Yes, Mr. Chairman. Page 5
12 of Exhibit G, 4170.

13 Q. And if you look at the bottom, there's
14 a --

15 CHAIRMAN McCARTER: Hang on.

16 MR. HARPER: Oh, I apologize.

17 CHAIRMAN McCARTER: Okay.

18 MR. HARPER: Thank you.

19 Q. (By Mr. Harper) If you look at the bottom
20 of the page, there's a heading "Water-well Logs and
21 Data Analysis."

22 A. Correct.

23 Q. And then there is some discussion
24 regarding the well logs that were utilized in the
25 study; is that correct?

1 A. That's correct.

2 Q. And then I see there is I think it's the
3 third sentence "Copies of the logs of the 300 wells
4 closest to Enon Sand & Gravel are included on the
5 disk in Appendix C" to your report.

6 A. Yes.

7 Q. Is that right? And if you flip back to
8 page 3, which is CAM Prod 4168, bear with me while I
9 find the reference, the fourth full paragraph talks
10 about "The hydrogeologic cross sections shown on
11 Plates 5 and 6 were developed using water-well logs
12 that were obtained from the ODNR and are included in
13 Appendix A." Do you see that?

14 A. I do.

15 MR. HARPER: If I may approach?

16 CHAIRMAN McCARTER: Sure.

17 Q. Mr. Champa, I am going to hand you a
18 document I've had marked as Intervenor's Exhibit
19 XVIII, XVIII.

20 MR. HARPER: I do have copies for the
21 Commission.

22 Q. Mr. Champa --

23 MR. HARPER: And also before I ask you
24 that question, let me just note for the record that
25 Exhibit XVIII consists of pages Bates labeled CAM

1 Prod 4224 to CAM Prod 4263.

2 Q. Mr. Champa, can you tell us, first of
3 all, is what I've handed you and that has been marked
4 as intervenor's Exhibit XVIII, is it a true and
5 accurate copy of appendix A from the Eagon model?

6 A. Yes, it is.

7 Q. So it would properly be included in the
8 model that we've been looking at that would be
9 marked -- has been marked as Exhibit G?

10 A. Yes, it is.

11 Q. Okay. And if you can just tell the
12 Commission what the well logs contained in appendix A
13 represent.

14 A. These were the well logs that we used to
15 construct the hydrogeologic cross-sections. There's
16 two sections of the logs we used to construct the
17 west to east cross-section, A-A prime, and the logs
18 that we used to construct the north-south
19 cross-section, B-B prime.

20 Q. And if you look at Exhibit -- if I can
21 have you look through Exhibit G, and specifically
22 plate -- plates 5 and 6, which would be CAM Prod 4591
23 and 4592, and if you'll just let me know when you get
24 there and I'll wait for the Commission also.

25 A. I have it.

1 MR. HARPER: Does the Commission have it?

2 Thank you.

3 Q. Mr. Champa, do you have plate 5 in front
4 of you?

5 A. I do.

6 Q. And am I correct that that is one of the
7 two cross-sections prepared using the data on --
8 contained in appendix A?

9 A. Yes, it is.

10 Q. And then if you flip the next page, page
11 6, CAM Prod 4592, is the second of two cross-sections
12 prepared as part of the model?

13 A. Yes, it is.

14 Q. And those cross-sections are a required
15 component of the model for submission to the ODNR for
16 purposes of the cone of depression?

17 A. Yes, they are.

18 Q. Excuse me. And I would like you to just
19 walk us through what the cross-sections contained in
20 plate 5 and plate 6 tell us about the area of the
21 model.

22 A. The cross-sections show the thickness and
23 distribution of subsurface materials to the thickness
24 of the overburden soils, thickness of the carbonate
25 units, the depths and elevations to the different

1 contacts. It shows areas where the carbonate has
2 been dissected by rivers. It shows us the depths of
3 the wells in the area. It shows us the water levels
4 at those wells so we can get a sense of are
5 formations confined or unconfined. You can also look
6 at those water levels and get a sense of flow
7 directions relative to the cross-section.

8 Q. Okay. And that same description is true
9 for both plates 5 and 6; is that right?

10 A. That's correct.

11 Q. And can you show us perhaps with
12 reference to what had previously been marked as
13 Exhibit D generally, or on another plate, generally
14 the --

15 A. Have we got plate 1?

16 Q. I don't know. Pardon me. So I
17 apologize. Let me reference plate 1 of Exhibit G,
18 CAM Prod 4587, with reference to Exhibit -- excuse
19 me, plate 1, perhaps you could show us the location
20 of the two cross-sections you just discussed.

21 A. Certainly. So cross-section A-A prime
22 extends from the western edge of our study area over
23 to the eastern edge.

24 Q. Let me stop you. Is A-A prime, is that
25 plate 5?

1 A. That's correct.

2 Q. Okay.

3 A. And cross-section B-B prime that's shown
4 on plate 6 extends from the north through the two
5 quarry areas to the south of -- to the end of our
6 study area.

7 Q. And, again, the well log data contained
8 in appendix A that we've marked as Intervenor's
9 Exhibit XVIII is the data you used to prepare those
10 two cross-sections.

11 A. Yes, it is.

12 Q. So those cross-sections are
13 representatives of those approximately -- well, I'm
14 not sure of the number but this stack of well logs.

15 A. That's correct.

16 Q. Okay. And the well logs, are they
17 located along those two lines of the cross-sections?

18 A. They are.

19 Q. Okay. And directing you back to page 5
20 of your report at Exhibit G, again, CAM Prod 4170,
21 there is reference to an additional appendix C in
22 that final paragraph under "Water-Well Logs and Data
23 Analysis." Do you see that?

24 A. I do see that.

25 Q. And the second full sentence therein says

1 "Copies of the logs of the 300 wells closest to the
2 Enon Sand & Gravel property are included on the disk
3 in Appendix C." What is the purpose of having the
4 well -- the 300 wells closest to Enon Sand & Gravel
5 in appendix C?

6 A. The ODNR regulations require that we
7 submit as many as 300 well logs from the
8 hydrogeologic study area. By choice we took the 300
9 that were closest to the quarry.

10 Q. Okay.

11 MR. HARPER: If I may approach.

12 Q. Mr. Champa, I am going to hand you what I
13 have had marked as Intervenor's Exhibit XIX, XIX.

14 MR. HARPER: And I do have copies for the
15 Commission, of course. I apologize for the heft, but
16 it's a thick exhibit. Chairman. Counsel,
17 Intervenor's Exhibit XIX.

18 Q. (By Mr. Harper) Mr. Champa, is
19 Intervenor's Exhibit XIX a true and accurate copy of
20 the well logs contained in Exhibit C -- or, excuse
21 me, to appendix C to the Eagon report?

22 A. Yes, it is.

23 MR. HARPER: And just for the record I
24 wanted to note appendix C consists of documents Bates
25 labeled CAM Prod 4286 to 4585.

1 Q. And as appendix -- as with appendix A is
2 appendix C properly included in the Eagon report that
3 has been marked as Exhibit G?

4 A. Yes, it is.

5 Q. Okay. And looking at Exhibit A and C, if
6 I stack them on top, it's a fairly thick body of well
7 log data, correct?

8 A. Correct.

9 Q. But am I correct that this is not all of
10 the well log data that you looked at?

11 A. No, that's correct.

12 Q. It's just one portion of the roughly
13 2,000 that you used in preparing the model --

14 A. That's correct.

15 Q. -- is that right? That being the case,
16 can you -- can you look to the data of one well log
17 to question a groundwater model?

18 A. No.

19 Q. Why not?

20 A. Because it represents a particular point
21 among many and there's a lot of spatial and temporal
22 variability in well log data as well as variability
23 just based on the driller. So we don't just look at
24 one well log to determine anything.

25 Q. Okay. What about a half dozen?

1 A. No. Percentagewise very small compared
2 to the number of wells that we're dealing with.

3 Q. Okay. What about a cluster of well logs
4 like the Echo Hills subdivision wells that were
5 discussed two weeks ago?

6 A. We look very hard at those and that's
7 been discussed and so we --

8 CHAIRMAN McCARTER: Mr. Champa, we're the
9 ones who really got to hear this so you need to focus
10 to us, please.

11 MR. HARPER: I apologize.

12 Q. Talk to them.

13 A. Yeah. I was trying to think of where I
14 was.

15 MS. OSTERMAN: You looked at Echo Hills
16 well logs.

17 THE WITNESS: Thank you. Yes.

18 A. So we did look at those well logs because
19 they were presenting some different values for water
20 levels between the different wells, and so we did
21 examine those more closely.

22 Q. And that's addressed in your report
23 contained in Exhibit G, correct?

24 A. That's correct.

25 Q. And do you know what percentage of the

1 total well log data points that you used are
2 represented by the Echo Hills area that presented
3 those difficulties?

4 A. Less than 5 percent.

5 Q. And is -- is the anomaly with less than
6 5 percent of the total well logs, is that enough to
7 throw the model into question?

8 A. No, it's not.

9 Q. Mr. Champa, I am going to direct you to
10 plate 10 of Exhibit G which is CAM Prod 4596, and
11 it's titled "Calibrated Model Residuals-Layer 1."
12 And with regard to the calibration process, I guess
13 I'd like you to explain to the Commission, less me
14 than to the Commission, what plate 10 represents in
15 terms of the calibration of layer one of the model.

16 A. Okay. Plate 10 presents the residuals,
17 which residuals are the difference between the well
18 log, the water level data from the well logs that we
19 used as calibration points, and the model results at
20 those points. And that's what's displayed on plate
21 10 for model layer one.

22 What we try to achieve is, of course, as
23 low a residual as possible but we also want to see
24 that we have an average in our results that's not
25 extremely weighted towards high residuals or low

1 residuals.

2 Q. Okay. So, again, plate 10 was for layer
3 one of the model and then as plate 11 which is also
4 contained in Exhibit G, and it's Bates labeled CAM
5 Prod 4597, is that essentially the same but for layer
6 three of the model?

7 A. That's correct.

8 Q. And I notice on both of these there are
9 red dots and blue dots. Perhaps you can just explain
10 to the Commission what the red dots represent and
11 what the blue dots represent.

12 A. The red dots represent points where the
13 model results are lower than the measured -- the
14 water level data from the well logs, and the blue
15 points represent locations where the model results
16 were lower than the water level elevations for the --
17 from the well logs.

18 Q. Okay. I apologize. Bear with me.

19 MS. OSTERMAN: While he's looking did he
20 say red dots -- red dots --

21 CHAIRMAN McCARTER: Could you repeat your
22 testimony on the dots, please?

23 MS. OSTERMAN: Do the red and blue again.

24 THE WITNESS: Yes. The red dots are
25 shown as negative values and those are points where

1 the model results, the water levels from the model
2 are higher than the water levels from the well logs.

3 MS. OSTERMAN: Okay.

4 THE WITNESS: The blue points are shown
5 as positive values and those are points where the
6 model elevation, the model water level elevations,
7 are lower than the water level data from the well
8 logs.

9 MS. OSTERMAN: Okay. Thank you.

10 Q. (By Mr. Harper) And, Mr. Champa, if I can
11 direct you in Exhibit G to what is your figure 13,
12 and I believe it's at CAM Prod 4194. Not plate 13,
13 figure 13.

14 A. Oh, I'm sorry.

15 Q. And, again, it's CAM Prod 4194.

16 A. Yes.

17 Q. Do you have that in front of you?

18 A. I do.

19 Q. And does the data that's contained on
20 plates 10 and 11 that we were just looking at
21 correspond in any way to figure 13 contained at CAM
22 Prod 4194 in Exhibit G?

23 A. It does.

24 Q. Can you explain that in relationship?

25 A. The points on figure 13 are a comparison

1 of the heads generated by the model, water level
2 elevations generated by the model, to the water level
3 elevations from the well logs for each specific point
4 that we used as calibration target.

5 Q. And what does figure 13 tell us about the
6 results of the calibration?

7 A. That on average we have a good fit to the
8 water level data in the -- for the calibration points
9 between --

10 Q. I'm sorry. I didn't mean to interrupt
11 your testimony.

12 A. A good fit between the model water level
13 elevations and the measured well log water level
14 elevations.

15 Q. And let me direct your attention to two
16 additional plates from the Eagon model. First, let
17 me direct you to plate 14 of the Eagon model which is
18 Exhibit G, CAM Prod 4600. This particular plate is
19 titled "Model Potentiometric Surface Map-Phase 1
20 Quarry Dewatering." Is -- is -- you looked earlier
21 at I believe it was plate 8 which was the
22 potentiometric.

23 A. Correct.

24 Q. What -- what is the difference between
25 plate 8 and plate 14 because both of them use the

1 word potentiometric surface map? So I'm assuming
2 there is a difference. Perhaps you can explain to us
3 what the different is and, again, direct your answer
4 to the Commission so they can hear, please.

5 A. Certainly. The potentiometric surface
6 shown on plate 14 is the model generated
7 potentiometric surface including dewatering of the
8 Phase 1 quarry area.

9 Q. Okay. So this is a further output from
10 the development of the cones of depression? It's
11 part of that process?

12 A. Yes.

13 Q. And like the development of the actual
14 cones of depression, is this result reached after the
15 calibration process, not before?

16 A. Yes, it is.

17 Q. Okay. Mr. Champa, I'm going to direct
18 you again to Exhibit G, this time to your figure 9
19 which is CAM Prod 4190. This is the figure 9 model
20 recharge distribution. Do you have that before you?
21 I'll wait for the Commission to get there.

22 A. I do.

23 MR. HARPER: Does the Commission have it?

24 CHAIRMAN McCARTER: Go ahead.

25 MR. HARPER: Thank you.

1 Q. (By Mr. Harper) Mr. Champa --

2 CHAIRMAN McCARTER: 4190, correct?

3 MR. HARPER: It is 4190, figure 9, "Model
4 Recharge Distribution" contained in Exhibit G.

5 Q. (By Mr. Harper) Mr. Champa, during your
6 questioning by Mr. Yskamp, he challenged your use of
7 a .5 inch per year recharge rate for certain areas
8 shown on figure 9. Do you recall that testimony?

9 A. I do.

10 Q. I would like you to explain again to the
11 Commission why the value of .5 inches per year for
12 the areas indicated on the model is a -- in your
13 opinion a proper value for use in this modeling
14 exercise.

15 A. As I said the last time, there's several
16 things that go into that. Some of the area .5 inches
17 per year is areas of steep slopes. Some of those
18 areas are also discharge areas so you don't get high
19 recharge and discharge areas. Some of these areas
20 are tiled agricultural fields where a lot of the
21 precipitation is funneled off.

22 The recharge rate is supported by other
23 research in the carbonate aquifer in northwest Ohio.
24 Rowland and Kunkle did a paper in 1970 where they
25 cited about 18 calculated recharge rates around

1 pumping centers in northwest Ohio in carbonate
2 aquifer. 15 of those 18 recharge values were less
3 than half an inch per year.

4 Q. Mr. Champa, if I may approach, I'm going
5 to hand you what has been marked as Intervenor's
6 Exhibit XVII.

7 MR. HARPER: And I will note for the
8 record that this document is Bates labeled CAM 6617
9 through CAM 6623, a document produced by the
10 appellants in the course of this litigation.

11 Counsel, Intervenor's Exhibit XVII.

12 Counsel, Intervenor's XVII.

13 Q. (By Mr. Harper) Mr. Champa, is that the
14 Rowland and Kunkle study that you were just alluding
15 to?

16 A. Yes, it is.

17 Q. Is it a true and accurate -- or, excuse
18 me, a true -- yeah, a true and accurate copy of the
19 article authored by Rowland and Kunkle?

20 A. Yes, it is.

21 Q. Okay. And during your examination by
22 Mr. Yskamp, he asked you if you recalled a reference,
23 and you were unable to recall a reference. Do you
24 remember that?

25 A. I do.

1 Q. Is this a reference that you would point
2 to as just an example of a public domain reference
3 that supports your conclusion?

4 A. Yes, it is.

5 Q. And you alluded to this briefly, but I
6 guess I wanted to come back to it, what is the
7 general subject matter if you can describe it of this
8 article? What are the authors talking about?

9 A. They studied several water systems in
10 northwest Ohio and looked at the area of the cone of
11 influence for each of those systems and the pumping
12 rates of those systems and used those to calculate
13 what the recharge rate was to those areas, those
14 cones of influence.

15 Q. And you said this was a study in an area
16 of northwest Ohio?

17 A. Correct.

18 Q. Obviously your model is in an area in the
19 southwest of Ohio. How does the area at issue in the
20 Rowland and Kunkle article compare to the area of
21 your study -- or your model that is at issue in this
22 appeal?

23 A. These are similar -- similar
24 hydrogeologic settings where you have glacial cover
25 over carbonate bedrock. It's the same slurry and

1 aquifer, different sections within that aquifer but a
2 comparable hydrogeologic setting.

3 Q. And, in fact, am I correct that
4 Mr. Huntsman cited this article in his report that's
5 marked as Exhibit W in this appeal?

6 A. Yes, he did.

7 Q. And perhaps you can direct the Commission
8 to the specific discussion of recharge rates from
9 which you derive support for your position.

10 A. Those data are summarized on Table 2 on
11 page CAM 06622. And so on Table 2 each system is
12 listed, the pumping rate for each system is listed.
13 The area that's shown is the area of the cone of
14 influence. So they looked at that mapping to
15 determine what the area of the cone of influence was,
16 so the cone of influence is the area of drawdown
17 being created by pumping at these individual well
18 fields for these systems.

19 So the recharge rate here is expressed in
20 gallons per day per square mile. For reference
21 50,000 gallons per day per square mile is
22 approximately 1 inch per year of recharge. So you
23 can see that the majority of these numbers are less
24 than 25,000 gallons per day per square mile which
25 is -- would be half an inch per year.

1 A couple of the systems are a little
2 higher towards the 1 inch per year value. One of
3 them is about 1-1/2 inches per year.

4 Q. And if I look at the next page, there's a
5 chart, the next page being CAM 6623, is that in any
6 way a depiction of recharge values?

7 A. It is. It's a comparison of recharge
8 rate versus pumpage.

9 Q. And can you -- are you able on this graph
10 to indicate the values that correspond to a half inch
11 per year recharge rate?

12 A. The -- the left scale is the recharge
13 rate in thousands of gallons per day per square mile.
14 So, again, anything less than 25,000 gallons per day
15 per square mile is less than one-half inch per year.
16 That's an alogarithmic scale so if you see the 10 for
17 the next line up would be 20,000 ad so in between
18 that line and the next line up would be the location
19 of the 25,000 gallon per day per square foot line.

20 Q. So based on this article, the majority of
21 the recharge rates calculated were either less than
22 or approximating to a half inch per year?

23 A. That's correct.

24 Q. You were also asked in your
25 cross-examination about identifying practice

1 fractures, faults, and karst formations as part of
2 your groundwater modeling. Do you recall that line
3 of inquiry?

4 A. I do.

5 Q. And during the course of this hearing,
6 Mr. Huntsman has offered testimony regarding an
7 aspect or a component of the MODFLOW program for use
8 in mapping what is called a fracture flow system.
9 Are you aware of that?

10 A. I am.

11 Q. I would like you to tell the Commission
12 first what is the difference between a fracture flow
13 modeling exercise and what I would term a nonfracture
14 flow modeling exercise?

15 A. What you're referring to as a nonfracture
16 flow would be a porous media exercise. In MODFLOW
17 there's a package called MODFLOW-SIRFACT which can do
18 fracture flow modeling. You need to have a
19 definition of the fracture system in order for that
20 to be accurate or effective. That's something that
21 we do not have in this case. It would require an
22 extensive amount of additional work in the field,
23 geophysics and geologic mapping, an additional
24 borehole drilling in order to define that system. So
25 that's why it was not used.

1 Q. So in your opinion would it have been
2 appropriate in this exercise to use that component of
3 MODFLOW used for fracture flow modeling?

4 A. If the information were available, it
5 would have been appropriate.

6 Q. Is the information available?

7 A. No, it's not.

8 Q. Given that fact, that the information is
9 not available, would it be your opinion that it was
10 not appropriate to utilize that portion of MODFLOW
11 for this modeling exercise?

12 A. Yes, it would be.

13 Q. Also regarding the discussion of karst,
14 you had testified regarding a recent visit to the
15 site shortly before your testimony. Do you recall
16 that?

17 A. I do.

18 Q. And, Mr. Champa, I am going to hand you
19 what I've had marked as Intervenor's Exhibit XV.

20 MR. HARPER: And I do have copies for the
21 Commission and probably in light of that I tried to
22 print them on larger paper to make them a little more
23 useful. I know some of these images are difficult to
24 digest when they're reduced in size. I apologize.
25 Thank you.

1 Counsel, Intervenor's Exhibit XV.

2 Counsel, Intervenor's Exhibit XV.

3 Q. Mr. Champa, are you familiar with the
4 document that I have handed you marked Intervenor's
5 Exhibit XV?

6 A. Yes, I am.

7 Q. And can you tell the Commission what it
8 is.

9 A. This is a photograph --

10 MR. YSKAMP: Objection.

11 CHAIRMAN McCARTER: Go ahead.

12 MR. YSKAMP: This was never shared in
13 discovery.

14 MR. HARPER: This was produced prior
15 to -- produced during the course of the hearing and I
16 only received it yesterday.

17 MR. YSKAMP: Produced during the course
18 of what?

19 MR. HARPER: This was created during the
20 course of this hearing. It didn't exist prior to the
21 hearing.

22 MR. YSKAMP: Okay. Well, I would -- we
23 should have gotten it in discovery then. We didn't
24 get it, so I would object to its use.

25 CHAIRMAN McCARTER: Response.

1 MR. HARPER: There's already been
2 testimony regarding Mr. Champa's site visit. This
3 relates to that. It was examined on
4 cross-examination about it. Candidly, this was
5 not -- this photograph did not exist during the
6 course of discovery. It was taken just prior to his
7 testimony. And, candidly, I only received it very
8 recently, and I don't think there's any prejudice to
9 anybody from having him have -- to be able to discuss
10 a photo of an area that he has already testified
11 about before the Commission.

12 CHAIRMAN McCARTER: Why is the photo
13 being offered at this point in time?

14 MR. HARPER: Your Honor -- or, excuse me,
15 your Honor, Mr. Chairman, I have two photos taken
16 from his visit. One, this photo, Exhibit XV, is an
17 area north of the site that I would proffer that the
18 defendant will testify that it may actually show
19 karst features. I think that's helpful to the
20 Commission to see what a karst feature looks like.

21 We also have a companion photo taken from
22 the same site visit of the rock face that had been
23 discussed in his testimony that does not show karst
24 features, and we simply want the Commission to be
25 able to compare and contrast those two images. In

1 this regard it's very similar to photographs that
2 have already been introduced in the case. And,
3 again, I don't see how there is any prejudice to
4 anybody from Mr. Champa being able to fully explain
5 his site visit to the Commission.

6 CHAIRMAN McCARTER: Response.

7 MR. YSKAMP: Yeah. So there's prejudice
8 because we already put our case on. Our expert did
9 not have these photos, did not get a chance to review
10 them, and tell the Commission his opinion of what the
11 photos represent. So there is prejudice to us.

12 CHAIRMAN McCARTER: Anything further?

13 MR. HARPER: I don't believe there is any
14 prejudice from two photos, and I don't know how these
15 two photos would have changed any aspect of the
16 appellants' case.

17 CHAIRMAN McCARTER: Okay. I see this
18 being offered in part as rebuttal. However, CAM has
19 the right to recall its expert to testify about it.
20 In addition, CAM has the right to have a break right
21 now if he wishes -- if they wish to confer with their
22 expert after Mr. Champa gives testimony on it before
23 they have recross.

24 Go ahead.

25 MR. HARPER: That's fine, your Honor.

1 Q. (By Mr. Harper) So, Mr. Champa, you have
2 Exhibit XV before you?

3 A. I do.

4 Q. And I believe I had asked you to tell the
5 Commission what Exhibit XV is. Can you proceed.

6 A. This was a photograph that we took along
7 Route 68 about 5 miles north and a little bit east
8 from the Enon quarry sites. What -- and this is the
9 Cedarville dolomite so what is -- what is in our
10 model as the layer one, the upper carbonate. You can
11 see in the center of this photograph there's a
12 vertical line a little left of the -- of the left
13 hand fold, I guess is the easiest way to reference
14 that, that's a fracture with a lot of weathering on
15 the fracture. Towards the bottom of the outcrop you
16 see some horizontal features.

17 Q. Mr. Champa, could I suggest maybe you
18 hold the picture up and point to them the areas
19 you're referencing just so that everybody is on the
20 same page.

21 A. So this -- this vertical feature is the
22 fracture that I mentioned. These horizontal features
23 exhibit a lot of weathering, some solution features.
24 Near the ground surface here and over here, you can
25 see some depressions. The depressions are an

1 expression of karst topography. The solution
2 features are the types of things that develop in a
3 karst setting.

4 CHAIRMAN McCARTER: For clarity of the
5 record, Mr. Champa, you've referred to the areas that
6 are tan on the rock face wall as opposed to the areas
7 that are gray?

8 THE WITNESS: That's correct.

9 CHAIRMAN McCARTER: Thank you.

10 Q. (By Mr. Harper) Mr. Champa, I am now
11 going to hand you what I have had marked as
12 Intervenor's XVI.

13 CHAIRMAN McCARTER: Thank you.

14 MR. HARPER: Thank you, Mr. Chairman.
15 Thank you, Ms. Osterman.

16 COMMISSIONER BIRT: Thank you.

17 MR. HARPER: Thank you, Ms. Clum.
18 Counsel, Intervenor's XVI.

19 Q. Mr. Champa, you have in front of you what
20 we've had marked as Intervenor's Exhibit XVI?

21 A. Yes, I do.

22 Q. And can you tell us what this photograph
23 depicts?

24 A. This is a photograph of the outcrop at
25 the southern end of the Enon quarry Phase 2 area that

1 we've discussed previously. And just to refresh your
2 minds, that's the area on Exhibit D which is CAM Prod
3 3604 that is to the left of the line C-C prime pretty
4 much within this red outlined area.

5 CHAIRMAN McCARTER: North of Mud Run?

6 THE WITNESS: That's correct.

7 Q. And, Mr. Champa, are both exhibits,
8 Intervenor's Exhibits XV and XVI true and accurate
9 depictions of features that you saw on the day of
10 your site visit?

11 A. Yes, they are.

12 Q. These photographs are accurate
13 reproductions of what you visually saw?

14 A. Yes, they are.

15 Q. Does looking at Exhibit 16, which again
16 is the photograph that is on the site, does it
17 demonstrate or show the same karst features that you
18 just described on Intervenor's Exhibit XV?

19 A. No, it does not.

20 Q. And can you discuss that a little bit for
21 the Commission.

22 A. This shows a rather uniform appearance.
23 This is again the Cedarville dolomite. They're --
24 actually in this exposure you see the top of the
25 Massie shale. It's not in this picture. But you do

1 not see the kind of vertical fracture features that
2 we saw in Exhibit XV. You don't see the horizontal
3 solution features we see in Exhibit XV. You don't
4 see the evidence of depressions at the ground surface
5 that you see in Exhibit XV.

6 CHAIRMAN McCARTER: Again, your testimony
7 was relating to Exhibit XVI.

8 THE WITNESS: That's correct.

9 CHAIRMAN McCARTER: Thank you.

10 MR. HARPER: Thank you.

11 Q. (By Mr. Harper) Mr. Champa, switching to
12 a different subject then, if you can refer to -- just
13 have Exhibit G in front of you, during your
14 cross-examination by Mr. Yskamp, he asked you why you
15 did not discuss specific capacity data in the
16 narrative of your report. Do you recall that --

17 A. I do recall that.

18 Q. -- testimony? Is, in fact, specific
19 capacity discussed in your report?

20 A. Yes, it is.

21 Q. And can I direct you to page 6 of Exhibit
22 G, CAM Prod 4171. Does that page contain a
23 discussion about your analysis of specific capacity
24 as part of the modeling process? And I might direct
25 you to the very top of the page.

1 A. Yes, it does.

2 Q. And what does it say?

3 A. It says "Plate 9 is a map showing the
4 distribution of specific-capacity data. Specific
5 capacities for the majority of bedrock wells in the
6 study area are less than 5 gallons per minute per
7 foot and inspection of the values shown on Plate 9
8 shows many of the specific capacities are around 1
9 gallon per minute per foot or less. Specific
10 capacities for Bedrock wells, shown on Table 1, range
11 from .05 to 58.33 gallons per minute per foot of
12 drawdown and average 2.18 gallons per minute per
13 foot. Higher specific capacity wells in the bedrock
14 tend to be located near stream valleys which may
15 indicate fracturing of the bedrock in the valleys.
16 Higher specific capacity wells are also associated
17 with wells in unconsolidated sediments in the Mad and
18 Little Miami River Valleys."

19 Q. So that's a specific discussion in your
20 report about your conclusions on specific capacity?

21 A. That's correct.

22 Q. And, again, your conclusions on specific
23 capacity were also set forth on plate 9 of your
24 report and this, again, would be Exhibit G, CAM
25 product 4595; is that right?

1 A. Plate 9 was the basis for my conclusions
2 on specific capacity.

3 Q. Okay. And so if -- the model consists of
4 both the narrative and the plates and its appendixes;
5 is that right?

6 A. Those are all parts of what went into
7 creating the model, yes.

8 Q. And so all of that together comprises the
9 report, correct?

10 A. Correct.

11 Q. And so, in fact, your report does, in at
12 least two different ways does discuss your specific
13 capacity conclusions for the benefit of the Division
14 in reviewing the model, correct?

15 A. That's correct.

16 Q. I would like to direct your attention to
17 Exhibit 40 in the appellee's book of exhibits, I
18 believe. And specifically out of that page out of
19 Exhibit 40, I would direct you to CAM Prod 1796. Do
20 you see that?

21 A. I do.

22 CHAIRMAN McCARTER: Bear with us.

23 MR. HARPER: Oh, certainly. Just let me
24 know, Mr. Chairman.

25 CHAIRMAN McCARTER: 40.

1 MR. HARPER: Again, Exhibit 40, CAM
2 product 1796.

3 CHAIRMAN McCARTER: Okay.

4 MR. HARPER: Thank you, Mr. Chairman.

5 Q. Do you have page 1796 in front of you?

6 A. I do.

7 Q. And that page is part of a table of
8 certain public water well list -- system wells
9 located within the area of the mining area at issue
10 in this appeal, correct?

11 A. That's correct.

12 Q. And at the top there is -- one of the
13 systems is the Greenon High School well?

14 A. Yes, it is.

15 Q. And it shows a pumping rate of 17,000
16 gallons per day.

17 A. That's correct.

18 Q. It is -- it has been suggested in the
19 course of testimony that that rate of 17,000 gallons
20 per day indicates that the hydraulic capacity is
21 higher than your model assumes. Are you aware of
22 that line of testimony in this case?

23 A. I am.

24 Q. And I confess to you 17,000 gallons a day
25 sounds like a large number. Can you tell us what

1 does it equate to in gallons per minute which has
2 been a measure that has been used in other aspects of
3 this case?

4 A. That's less than 12 gallons per minute.

5 Q. How does that gallons per minute rate
6 relate to your assumptions about hydraulic
7 conductivity?

8 A. Well, that -- that value fits perfectly
9 with what the groundwater resources map would suggest
10 for wells in this area.

11 Q. Does the Greenon High School pumping rate
12 undercut your model's assumptions regarding hydraulic
13 conductivity?

14 A. No, it doesn't.

15 Q. I apologize, I'm going back and forth
16 from binders, but I need to direct you to Appellants'
17 Exhibit Q. Do you have that in front of you?

18 A. I do.

19 Q. This is a hydrogeologic study that was
20 prepared by Bowser Morner in 2009. Did you testify
21 that you did not have that model in your -- for
22 review when you prepared your model; is that correct?

23 A. That is correct.

24 Q. Notwithstanding that have you reviewed it
25 since preparing the model?

1 A. I have.

2 Q. And does the Bowser Morner model marked
3 as Exhibit Q cause you to question any aspect of your
4 model that we've been looking at marked as Exhibit G?

5 A. No, it doesn't.

6 Q. And if you can tell us why not.

7 A. There are several reasons. I don't know
8 from their report entirely what their database was
9 that they used to develop their model. They also
10 state in their report that they were not able to
11 accomplish a multilayer model. So they've got a more
12 simplified model that doesn't accurately represent
13 the stratigraphy of the area. So I feel that our
14 model is more complete and a better representation of
15 the flow system in this area.

16 Q. Do any of the values assumed by the
17 Bowser Morner model for hydraulic conductivity cause
18 you to question the accuracy of the assumptions made
19 in your model?

20 A. No, they don't.

21 MR. HARPER: If I can have one moment to
22 confer, Mr. Chairman.

23 CHAIRMAN McCARTER: Certainly.

24 Q. Mr. Champa, I want to again direct you to
25 Exhibit G. This time page 12, CAM Prod 4177. Do you

1 have that in front of you?

2 A. I do.

3 Q. There is a section on this page 12, again
4 CAM Prod 4177, titled "Groundwater Monitoring."

5 A. Yes.

6 Q. And you were asked some questions about
7 groundwater modeling I believe during Mr. Yskamp's
8 questioning. Do you recall that discussion?

9 A. I do.

10 Q. In the paragraph on groundwater
11 monitoring, it indicates that prior to the initiation
12 of dewatering all of the wells encompassed by Phase 1
13 would be surveyed to update and expand the premining
14 database on groundwater levels and water quality. Do
15 you see that?

16 A. I do.

17 Q. I would like you to describe how that
18 well survey will be done.

19 A. We will go door to door and interview the
20 homeowner regarding their well. We will take water
21 level measure -- if the well is accessible, we would
22 take a water level measurement in the well. We will
23 try to sound the total depth of the well. We will
24 try to correlate that data with the available well
25 logs to verify that we either have or do not have a

1 well log for a given well. We will run a short
2 pumping test on the well to document the well's
3 performance so what pumping rate does it have, how
4 much drawdown is there.

5 We'll collect a water sample at that time
6 also to establish background water quality data. We
7 assemble all of that into the database that we use to
8 then select wells for continued monitoring once
9 dewatering begins. We'll select those wells based on
10 a good geographic distribution of the monitoring
11 wells, and we may include any specific wells that we
12 identify that we may think are particularly
13 vulnerable.

14 Q. Okay. And why haven't the key wells that
15 will be monitored annually been identified yet?

16 A. Because we don't have all the data.

17 Q. Is it something you have to do the survey
18 first before you can identify the key wells to be
19 monitored?

20 A. That's correct.

21 Q. Okay. And the annual monitoring of those
22 key wells, what time of year will that be done?

23 A. We do those in September and October
24 which is the driest part of the year typically, so
25 we'll be looking at water levels at their likely

1 lowest time of the year. We also will alter the
2 frequency, just not necessarily just annually. If we
3 see drawdowns -- the rate of drawdown increasing, we
4 may do twice a year. We also identify key wells
5 initially but that doesn't mean we won't add wells to
6 the monitoring network as the course of dewatering
7 progresses.

8 Q. And that process that you just described
9 would be done for Phase 1 and then repeated for Phase
10 2; is that correct?

11 A. That's correct.

12 Q. Okay.

13 A. And some of the wells may be used for
14 both.

15 Q. Okay. Have you done such monitoring for
16 other dewatering operations that you've modeled?

17 A. We have.

18 Q. For approximately how long have you been
19 conducting monitoring of other dewatering operations?

20 A. Probably 10 years in some cases.

21 Q. Okay. Do you have an idea of
22 approximately how many?

23 A. There's about half a dozen quarries that
24 we do this kind of monitoring for.

25 Q. Okay. Are some of those for companies --

1 Enon or other companies operated by Mr. Garrison?

2 A. They are.

3 Q. And how well have your models predicted
4 the feature results?

5 A. They've been generally accurate. We do
6 two things to look at that. After we go do our
7 annual monitoring, we'll put together a drawdown map,
8 and we'll compare that with the model. And, of
9 course, we haven't seen any of these quarries go to
10 completion yet, so we look to see if the drawdowns
11 aren't out of the range that we would expect for the
12 phase of the quarry that the operation is in. We'd
13 also look at if we get a complaint we go out and do
14 complaint investigation. We measure the water level
15 in a well. We look at how much drawdown that
16 represents from our baseline conditions, and we go
17 back to the model and look at that. And so far
18 they've had generally good accuracy.

19 Q. Okay. And that's again over roughly a 10
20 year period.

21 A. That's correct.

22 Q. In closing, Mr. Champa, based on your
23 experience and your expertise in groundwater modeling
24 and the work that you performed in preparing the
25 groundwater model at issue in this case, is it your

1 opinion that Eagon's model is a properly prepared
2 groundwater model?

3 A. Yes, it is.

4 Q. On the same basis is it your opinion that
5 Eagon's model is consistent with ASTM standards?

6 A. Yes, it is.

7 Q. Similarly is it your opinion Eagon's
8 model is consistent with the generally accepted
9 principles of hydrogeology used in preparing such
10 models?

11 A. Yes, it is.

12 Q. And is it your opinion that the Eagon's
13 model meets the requirements for the Division to
14 establish a cone of depression for that purpose?

15 A. Yes, it is.

16 Q. And do you hold all those opinions to a
17 reasonable degree of scientific certainty?

18 A. Yes, I do.

19 MR. HARPER: I have nothing further for
20 Mr. Champa at this time. Thank you, Mr. Chairman.

21 CHAIRMAN McCARTER: Okay. We're going to
22 take a break until 11 o'clock.

23 (Recess taken.)

24 CHAIRMAN McCARTER: All right. At this
25 you point it's recross by CAM.

1 MR. YSKAMP: Thank you.

2 - - -

3 RECROSS-EXAMINATION

4 By Mr. Yskamp:

5 Q. So I want to start with Exhibit I think
6 it's XVII, if I'm correct on that.

7 A. Yes.

8 Q. Okay.

9 CHAIRMAN McCARTER: Give us a moment.
10 We'll get there. That's the cones of influence
11 report?

12 MR. YSKAMP: That is.

13 CHAIRMAN McCARTER: It's not in the book.
14 Koral.

15 COMMISSIONER CLUM: Yeah, I put it in
16 here already. I believe you.

17 CHAIRMAN McCARTER: Go ahead.

18 Q. (By Mr. Yskamp) Okay. So in this study,
19 let me know if I have this right, they basically
20 pumped the limestone aquifer and looked at the
21 recharge coming through the till above it, right?

22 A. What they're -- yes, that's essentially
23 correct, yes.

24 Q. Okay. So the recharge -- would you agree
25 recharge is going to depend on the permeability of

1 the till?

2 A. Of course.

3 Q. So if you turn to page -- it's page 41,
4 but it's Bates numbered 6621 in the report. Okay.
5 So there's a lot of stuff in here that's probably
6 hard to understand, certainly hard for me, but I'm
7 going to give it a shot. So the very last paragraph
8 starts with "Assuming." It says "Assuming that a
9 recharge rate of 100,000 gallons per day per square
10 mile would correspond to an average vertical
11 hydraulic gradient of unity, the inflow-outflow
12 equation may be solved for the vertical permeability
13 of the drift. This," and then on to the next page,
14 if you will, "This solution yields a permeability
15 coefficient of 3.6 times 10 to the negative third
16 gallons per day foot squared, a value in excellent
17 agreement with the nature of the drift and supported
18 by other investigations, for example, Rosenshein."
19 So that permeability coefficient they're citing for
20 the drift, that's -- is that the hydraulic
21 conductivity?

22 A. That's the vertical hydraulic
23 conductivity.

24 Q. Okay. And that's -- that's a value less
25 than 1, right? Much less than 1.

1 A. Much less than 1.

2 Q. Do you know what the value of the
3 hydraulic conductivity for the drift in Clark County
4 is?

5 A. I don't specifically know that, no.

6 Q. Could you -- if you can find it over
7 there Exhibit LLL, we discussed this a little bit
8 last time we spoke.

9 CHAIRMAN McCARTER: That was a loose
10 exhibit?

11 MR. YSKAMP: It's a stand-alone exhibit.
12 It's Appellants' LLL.

13 Q. If I could direct your attention to page
14 41 in that exhibit. So on page 41 there is a heading
15 "Hydraulic Conductivity." And the second paragraph,
16 I believe, describes the till over Clark County
17 generally; is that right?

18 A. They are starting out talking about
19 hydraulic conductivity of the aquifers.

20 Q. So for -- the third sentence in that
21 paragraph says "For sand and gravel lenses
22 interbedded with till, hydraulic conductivity ratings
23 of 100 to 300 gallons per day per square foot" so
24 that -- that's -- that's talking about the till over
25 Clark County, right?

1 A. No, it's not. These values they're
2 talking about the aquifers. They're not talking
3 about the till.

4 Q. Did you look for anything talking about
5 the till in Clark County?

6 A. I reviewed quite a lot of information and
7 that -- tills, again, you know, I started out as I
8 explained previously with a recharge value 2 inches
9 per year which is a very common recharge value used
10 for aquifers overlain by glacial cover, and I
11 explained how I got to the recharge value that I
12 ended up with.

13 CHAIRMAN McCARTER: I need both of you to
14 speak up a bit. We've got the fan turned up so we've
15 got a little more background noise.

16 MR. YSKAMP: Okay.

17 Q. Okay. So did you reference this study in
18 your report, Exhibit -- Intervenor's Exhibit 17?

19 A. I don't think I did.

20 Q. Did you look at it when you did your
21 report?

22 A. Yes. I've looked at it many times over
23 the years.

24 Q. And did you base your recharge value in
25 part off of this report?

1 A. It was in my mind.

2 Q. But you didn't reference it.

3 A. I did not reference it.

4 Q. In Appellants' Exhibit G, which is the
5 report, once you are there could you turn to page 6.

6 CHAIRMAN McCARTER: 6?

7 MR. YSKAMP: Yes, 6, Bates No. 4171.

8 MR. HARPER: Mr. Chairman, I notice -- I
9 just noticed his table is back a lot further. Would
10 you like us to move it up so that he's closer to the
11 Commission members so that makes it better to hear?

12 MS. OSTERMAN: I don't know if that
13 distance is going to make much difference.

14 MR. HARPER: I don't know. I just
15 noticed it's diff -- a little different. I just
16 offered.

17 MS. OSTERMAN: Yeah. I set it up
18 different because I couldn't move this lectern.
19 Usually I push that way in the corner and it was --
20 but I don't know if that difference is going to make
21 a lot of difference. You're still going to have to
22 speak louder.

23 Q. (By Mr. Yskamp) So top of the paragraph
24 you describe how you -- you describe calculating
25 specific-capacity values, right?

1 A. I discussed the specific-capacity values,
2 that's correct.

3 Q. Okay. And I think you testified earlier
4 that I had -- I had questioned whether you calculated
5 specific capacity for the report?

6 MR. BALL: Objection.

7 MR. HARPER: Objection, mischaracterizes
8 his testimony.

9 CHAIRMAN McCARTER: Response?

10 MR. YSKAMP: I honestly didn't understand
11 what they were saying about what I asked him, so I'm
12 just asking so.

13 CHAIRMAN McCARTER: Ask the question
14 again, please.

15 Q. I'll just ask -- I'll just get to the
16 point, so my question is where in the report do you
17 discuss using specific capacity to calculate
18 hydraulic conductivity?

19 A. I may not discuss it specifically.

20 Q. Do you discuss using specific capacity to
21 calculate transmissivity?

22 A. No. I did do that.

23 Q. And you said that you -- you calculated
24 transmissivity and hydraulic conductivity without
25 differentiating between the unconsolidated and

1 consolidated aquifers, right?

2 A. No, that's not correct. I said I did
3 differentiate between those.

4 Q. And but you multiplied both by 1,500?

5 A. Both? I did not use -- in the specific
6 calculation that you're talking about, I used bedrock
7 wells only within a mile of the boring sites to
8 calculate the transmissivity.

9 Q. And did you differentiate between the
10 upper bedrock aquifer and the lower bedrock aquifer?

11 A. I did not.

12 Q. Okay. Why not?

13 A. I wanted to get a ballpark look at what
14 the specific capacity data was telling me. And I
15 started with that value and then ended up with the
16 hydraulic conductivity that I ended up with.

17 Q. So but you have a hydraulic conductivity
18 value and for model layer one which is the upper
19 bedrock aquifer, right?

20 A. Correct.

21 Q. And you have a value for model layer
22 three which is the lower bedrock aquifer.

23 A. Layer three, that's correct.

24 Q. But you didn't differentiate between
25 those aquifers in your calculations.

1 A. No, I didn't.

2 Q. And you could have, right?

3 A. I didn't see in the specific -- capacity
4 data a distinction in the specific capacities between
5 layer one and layer three. The other problem with
6 that is that any well that's completed into layer
7 three into the lower carbonate is also open to the
8 upper carbonate. So you don't know in many instances
9 where the water is really coming from.

10 Q. It's not open if it's cased down below
11 though, is it?

12 A. These wells are not cased below that for
13 the most part.

14 Q. But you do agree you could have isolated
15 wells just in the upper bedrock.

16 A. I could have. It would have been a small
17 set of wells.

18 Q. Could you turn to table 1 -- oh, sorry,
19 jumping -- getting ahead of myself here. Turn to
20 page 7 in the report, please. So I just want to ask
21 you really about some of the information in the first
22 paragraph. So starting with the second sentence it
23 says "The model represents groundwater flow in the
24 carbonate bedrock and unconsolidated deposits in the
25 deep buried bedrock valleys. Model Layer 1 is

1 modeled as an unconfined layer so MODFLOW calculates
2 the aquifer transmissivity based on the hydraulic
3 conductivity and the saturated layer thickness.
4 Model Layer 2 was assigned a constant thickness of 15
5 feet and has a top elevation of 908 feet, MSL, and a
6 bottom elevation of 893 feet, MSL."

7 So that last sentence is what I want to
8 ask you about, model layer two, that is the Massie
9 shale?

10 A. That's correct.

11 Q. Okay. That's the aquitard between the
12 upper bedrock and the lower bedrock.

13 A. That's correct.

14 Q. And the model has it assigned a thickness
15 of 15 feet so the top of the Massie shale is
16 generally 908 feet, MSL?

17 A. That's what I modeled it as, yes.

18 Q. And the bottom is generally 893 feet,
19 MSL?

20 A. That's correct, within the modeling.

21 Q. Okay. So in general below 893 feet is
22 probably going to be a lower bedrock aquifer?

23 A. That's correct.

24 Q. And above 908 is probably going to be an
25 upper bedrock aquifer.

1 A. That's correct.

2 Q. Okay. So if we turn now to table 1 which
3 is Bates 4197, and just for reference, is table 1, is
4 this the -- so the 300 well logs that you pulled
5 closest to the mine, that's what table 1 reflects,
6 right? The entirety of table 1.

7 A. I believe that's correct. I was trying
8 to remember if that was limited to those wells or if
9 that was a more complete tabulation of the wells.

10 Q. Okay. So just looking at the table,
11 there is a lot of information there. First, is this
12 information required by the Ohio Administrative Code?

13 A. It's required by the Department of
14 Natural Resources for -- for this model, yes.

15 Q. Okay. So a couple of values that I want
16 to talk about. So you have a water level elevation
17 column.

18 A. Yes.

19 CHAIRMAN McCARTER: Mr. Yskamp, I'm the
20 youngest one up here, and I'm straining to hear you.

21 MR. YSKAMP: I have lost my voice over
22 the last couple of days which is already pretty low
23 so. I'm going to do my best.

24 Q. So water level -- water level elevation,
25 MSL, is that the elevation of the static water level

1 in the well?

2 A. That is the elevation based on the
3 reported depth to water on the well log from ODNR,
4 yes, and based on the estimated ground elevation from
5 their GIS system.

6 Q. Okay. And just to -- so the one, two,
7 three, four, five, sixth column from the right,
8 that's where the ground elevation is listed for each
9 well?

10 A. That's correct.

11 Q. And just looking really at the first one,
12 two, three, four, five wells, comparing the ground
13 elevation to total depth, aren't all of those wells
14 located in the upper bedrock only?

15 A. That's possible.

16 Q. If you just do --

17 A. The fourth one may be below that.

18 Q. 989 minus 36 isn't going to be 908, is
19 it?

20 A. No, it won't be. So those probably are
21 in the upper aquifer, yes.

22 Q. Okay. I would also like to talk to you
23 about -- a little more about maybe isolating wells in
24 the lower aquifer. So, first, I would like to
25 reference just so we're all clear where the data in

1 this table is derived from. I would like to
2 reference 1501:14-5-01 if you can find it in there
3 somewhere.

4 MR. HARPER: James, can you give that
5 site one more time?

6 MR. YSKAMP: 1501:14-5-01, it's titled
7 "Hydrology."

8 MR. HARPER: Oh, the regulation.

9 MR. YSKAMP: It's the Administrative Code
10 section.

11 CHAIRMAN McCARTER: 1501.05?

12 MR. YSKAMP: 1501:14-5-01, "Hydrology."

13 MR. HARPER: James, I have an unmarked
14 copy of it. Do you mind if I hand it to him?

15 MR. YSKAMP: Yeah, if that's easy.

16 THE WITNESS: Thank you.

17 CHAIRMAN McCARTER: 14-5-01.

18 MR. YSKAMP: I think everybody might be
19 having a hard time finding it. Okay. Is everybody
20 good?

21 Q. Do you have it?

22 A. Yes, I'm good.

23 Q. Okay. If you could turn to the second
24 page. In part it's (4) (a) (iv) on this page discusses
25 representative water sources and a listing of

1 information.

2 A. Uh-huh.

3 Q. So my question is this -- is this the
4 Code requirement you're referring to with the 300
5 well logs and then table 1?

6 A. Yes, it is.

7 CHAIRMAN McCARTER: That was (4)?
8 Subsection (4)?

9 MR. YSKAMP: (4) little (a) and then the
10 little Roman numerals.

11 CHAIRMAN McCARTER: "The description
12 shall contain a water supply inventory"?

13 MR. YSKAMP: Right.

14 CHAIRMAN McCARTER: Okay. Your printout
15 has got it at a different level than what we're
16 looking at, at least what I'm looking at.

17 Q. Okay. Then it says "The listing shall
18 include to the extent available" and then a number of
19 information pieces that look like to me they match up
20 with your table pretty well.

21 A. Correct.

22 Q. So number -- XI, X-I, has casing length
23 in feet.

24 A. That's correct.

25 Q. I don't see that in your table 1.

1 A. It is the seventh column from the right.

2 Q. It looks like it's blank, right?

3 A. Although, yes, it doesn't look like it
4 was populated.

5 Q. Okay. So my question is if you did have
6 casing length listed here, you could probably pretty
7 quickly try to isolate wells that were cased below
8 that general MSL where they're into the lower
9 bedrock, right?

10 A. If they were cased below that, yes.

11 Q. So I would like you to turn to --

12 A. I'm guessing that the database we got
13 from DNR did not include casing length.

14 Q. The well database didn't include casing
15 length?

16 A. That's what I'm guessing because we
17 didn't -- there's no data there.

18 Q. Well, if you just quickly look --

19 A. It's on the well logs, but it's not in
20 the database that we get from ODNR.

21 Q. Is the database reflected in appendix C?

22 A. No. That's the printed well logs. What
23 we get from ODNR is an electronic database that we
24 import and use to populate this table.

25 Q. I see. So you didn't look at the well

1 logs when creating table 1.

2 A. No.

3 Q. Okay. So if you turn to Exhibit, I'm
4 afraid it's in the other binder, Exhibit X. Have you
5 seen this document before?

6 A. I don't know that I have. I'm not sure
7 where it's from.

8 Q. Were you here for Mr. Huntsman's
9 testimony at all?

10 A. I was not.

11 Q. Okay. So I'll just ask you a quick
12 question about what you see here. So you do see a
13 casing length column here, right?

14 A. I do.

15 Q. And there you see pretty variable lengths
16 throughout, right?

17 A. Right.

18 Q. And some are certainly pretty deep,
19 67 feet, 77 feet, 93 feet, things like that, right?

20 A. Yes.

21 Q. So isn't it fair to say there are a
22 number of wells that are cased into the lower bedrock
23 aquifer?

24 MR. HARPER: I'm going to object to
25 the --

1 CHAIRMAN McCARTER: Hang on. Go ahead
2 with the objection.

3 MR. HARPER: I am going to object to the
4 question asking him to give any kind of a conclusion
5 based on the data in this Exhibit X given that he's
6 testified he's not sure where it came from. He's not
7 sure what it represents. So I think it's a little
8 unfair to ask him to render an opinion without him
9 having a basis to even know what this is.

10 CHAIRMAN McCARTER: Response?

11 MR. YSKAMP: I think it's a fair
12 objection.

13 CHAIRMAN McCARTER: Okay.

14 MR. YSKAMP: I'll withdraw the question.

15 Q. (By Mr. Yskamp) So you could have looked
16 at the well logs to determine casing length though,
17 right?

18 A. Yes.

19 Q. Would you please turn to plate 9 in
20 Exhibit G.

21 A. Excuse me. Could you repeat what?

22 Q. Sorry. Plate 9 in Exhibit G. That's not
23 right. Sorry. I wrote down the wrong plate number.
24 Give me a minute. You might know better than I
25 would. Do you know which plate is the potentiometric

1 surface?

2 A. Oh, I believe that's plate 8.

3 Q. Okay.

4 A. Yes.

5 Q. Thank you.

6 A. You're welcome.

7 Q. Okay. Just a couple of clarifying
8 questions about the map. So the potentiometric
9 surface map, is that based on ODNR well log data?

10 A. The blue lines on that map are based on
11 ODNR well log data, yes.

12 Q. And the red lines are modeled data.

13 A. That's correct.

14 Q. And so this map it is -- is this after
15 calibration?

16 A. Those are the calibrated model, that's
17 correct.

18 Q. But not before you run the model, right?

19 A. Well, you have to run the model to do
20 that before the dewatering.

21 Q. Okay. Before the dewatering.

22 A. (Witness nods head.)

23 Q. Okay. So I want to take a look at a
24 couple of well logs and what their water levels show.
25 I am going to have to pass them out.

1 MR. YSKAMP: Yours felt pretty thick.

2 Did you get two in there? Thank you.

3 Q. (By Mr. Yskamp) Okay. I would like you
4 to take a look at what is marked as Exhibit MMM as in
5 Matt first.

6 A. Okay.

7 Q. The well log number for this is 895519;
8 is that right?

9 A. Correct.

10 Q. And if you could use the blowup of plate
11 1, in Exhibit G, plate 1, the big map. For everyone
12 else it's in Exhibit G, plate 1. Okay. My question
13 is on that map in the northwest -- on the northwest
14 permit line in Phase 1, can you locate well No.
15 895519?

16 A. I think that's actually adjacent to Phase
17 2.

18 Q. Phase 2, you are absolutely right. So
19 you know where it's located.

20 A. I do know where it's located.

21 Q. Okay. Could you just point and tell us
22 where it's located.

23 A. It's approximately off of the northwest
24 corner of the Phase 2 area in Echo Hills.

25 Q. And then while we are on this exhibit,

1 could you for a minute turn to Exhibit NNN. And is
2 this exhibit well log No. 771225?

3 A. Yes, it is.

4 Q. Do you know --

5 A. 225?

6 Q. Sorry. Do you know where that well is
7 located?

8 A. Yes.

9 Q. Okay. Could you --

10 A. That's just south of the previous well
11 location that we discussed in Echo Hills.

12 Q. Right --

13 A. Near the western edge of the Phase 2
14 area.

15 Q. Okay. Right close to the permit line?

16 A. Yes.

17 Q. And then if you could turn to the next
18 exhibit, 000. This is well log No. 772970?

19 A. Correct.

20 Q. Do you know where this well is located?

21 A. It's a little bit south of the previous
22 well we discussed.

23 Q. Okay. And looking back at the first well
24 log, I would like to discuss the total -- do you see
25 where the total depth of the well is listed?

1 A. I do.

2 Q. What's the total depth of this well?

3 A. It's 150 feet.

4 Q. And looking at formations, I notice the
5 bottom formation shale was hit at 143 feet, right?

6 A. That's correct.

7 Q. Is that the Massie shale?

8 A. No. That's the Ordovician shale below
9 the carbonate aquifer.

10 Q. Thank you. Yes, that is the Or -- okay.
11 And then the static water level of the well is
12 100 feet, right?

13 A. That's correct.

14 Q. Okay. And if you could turn -- if you
15 could actually locate the big plate 13 which is the
16 drawdown for Phase 2. So approximately where is this
17 well in the drawdown? What contour line?

18 A. Approximately 55 feet, 50 to 55 feet.

19 Q. Okay. So given that there's only 50 feet
20 of drawdown to go, doesn't the model predict this
21 well will be drawn down completely?

22 A. The model drawdowns are based on the
23 potentiometric surface from the model, and so we've
24 already discussed the discrepancy in some of the
25 water levels in Echo Hills. If these water levels

1 are correct, we are not going to cause as much
2 drawdown at these wells. We won't -- this elevation
3 at the bottom of this well is about at the elevation
4 of the bottom of the quarry. Outside of the quarry
5 the water level will be higher than it is at the
6 quarry.

7 Q. I understand.

8 A. So we will not dewater this well
9 entirely, no.

10 Q. I understand that, but applying the
11 drawdown to this well, it will dewater the well.

12 MR. HARPER: Objection, asked and
13 answered.

14 CHAIRMAN McCARTER: Overruled.

15 A. If you just look at the numbers, then
16 yes. But you're taking and assuming the drawdown is
17 coming from that water level elevation. That is not
18 what is depicted on that map.

19 Q. How does the -- how does the drawdown
20 apply to the real world water level?

21 A. The groundwater flow model is calibrated
22 to the water levels as best we can do that. We've
23 discussed the problems with calibration in Echo
24 Hills. So the groundwater level in the model in the
25 Echo Hills area is an average between the high and

1 the low water levels from the well logs. And so
2 that's what that drawdown is calculated from.

3 Q. And in Echo Hills you actually in the
4 model overpredicted the actual water level, right?

5 A. No. I overpredicted for some of the
6 water levels and underpredicted for some of the other
7 water levels --

8 Q. For model -- for model layer three --

9 A. -- as far as the water level elevations.

10 Q. For --

11 A. The model level in layer three?

12 Q. In Echo Hills.

13 A. Most of them the water levels was higher
14 than what these well log data would suggest.

15 Q. Could you turn to Exhibit NNN. And so we
16 said this well was just below the previous well.

17 A. Just south.

18 Q. Just south. And this well has a total
19 depth of 140 feet, right?

20 A. Yes.

21 Q. And a static water level of 90 feet.

22 A. Yes.

23 Q. So would you say that's pretty consistent
24 with the previous well?

25 A. Yes.

1 Q. And if you turn to Exhibit 000, so this
2 well has a total depth of 129 feet, right?

3 A. That's correct.

4 Q. And a static water level of 100 feet?

5 A. Yes.

6 Q. So, again, that's pretty consistent with
7 the other two wells?

8 A. Yes.

9 Q. So do you think this is good evidence
10 that this -- these wells represent the actual water
11 level?

12 A. They may.

13 Q. If you could turn to Exhibit -- not turn
14 to but find Exhibit XIII, Intervenor's exhibit.

15 A. You said XIII?

16 Q. Yeah. It's XIII.

17 CHAIRMAN McCARTER: Is it a loose
18 exhibit?

19 Q. It's this loose exhibit with well logs.

20 MS. OSTERMAN: Was it from last time?

21 MR. YSKAMP: It was.

22 MR. HARPER: It was.

23 CHAIRMAN McCARTER: All right. Bear with
24 us.

25 MR. HARPER: May I approach to assist the

1 witness?

2 CHAIRMAN McCARTER: It's labeled
3 "Culbertson Well."

4 MR. YSKAMP: Right.

5 A. Yeah, okay. I have it.

6 Q. Okay.

7 MR. HARPER: Thank you.

8 Q. Okay. So you must agree wells by log
9 number below 913 -- 913338 along Garrison Road; is
10 that right?

11 A. I'm sorry. Ask the question again. I'm
12 having a hard time hearing you.

13 Q. You listed three wells by their log
14 number along Garrison Road below 913338.

15 A. South of that, yes.

16 Q. South, all right. On plate 1 -- so,
17 first, I'll ask are these -- did you list these wells
18 on plate 1 of the report, the three wells?

19 A. No, we did not.

20 Q. And you didn't use them in your 300 wells
21 that you pulled closest to the quarry area?

22 A. No, we did not and there's a good reason
23 for that. Those wells were not in the ODNR database
24 at the time we did our report. They were added
25 later.

1 Q. When you say ODNR database, do you mean
2 the -- so tell me what you mean by ODNR database.

3 A. ODNR has a database of located well logs.
4 There are a lot of well logs they have that are not
5 located. In this case what was done, and I'm
6 guessing it was probably in response to this case,
7 was there were well logs that were added after we did
8 this report to their database as located well logs
9 based on addresses. We had conversation with the
10 Division of Water about this, so I know this is what
11 happened.

12 Q. Who -- who added them after you did the
13 report?

14 A. I don't know specifically who, somebody
15 with the Division of Water.

16 Q. Somebody just neglected to put -- to put
17 these well logs on the online search database?

18 A. I wouldn't say neglected. They were well
19 logs that had not been added.

20 Q. Okay. And that's why you didn't include
21 them.

22 A. That's correct.

23 Q. So but when you did your potentiometric
24 surface map, you didn't -- you didn't use these wells
25 to do that.

1 A. I didn't have those wells.

2 Q. Which means you didn't use them.

3 A. Correct.

4 MR. YSKAMP: That's all the questions I
5 have.

6 CHAIRMAN McCARTER: Follow-up?

7 MR. BALL: On that point.

8 - - -

9 RECROSS-EXAMINATION

10 By Mr. Ball:

11 Q. Does it matter today, looking at the
12 three wells, would it change your model in any way?

13 A. No, it wouldn't.

14 Q. And we looked at three logs just a moment
15 ago, MMM, NNN, and OOO. Do you recall that?

16 A. I do.

17 Q. If I select those out and had deeper
18 water there, does that impair your model preparation
19 of the well?

20 A. No. And, in fact, we had all those three
21 well logs. Two of those were calibrations in the
22 model, and we have discussed that whole situation in
23 the report and in this hearing.

24 Q. And would the range of gallons per minute
25 and production of the wells, 2 versus 25, be

1 comparable or show some inherent dissimilarity within
2 even that subset of three wells?

3 A. No. And those wells were included in our
4 database of specific capacities.

5 Q. And does the casing length appear on the
6 logs that are used in the appendices of your report?

7 A. The casing length column is there. There
8 are not data for that column.

9 Q. But does that data populate the
10 individual logs stored in the appendices per the
11 logs? Is it original to the well log?

12 A. I'm sorry. I don't --

13 Q. Let me try it another way, did the
14 driller fill out a well log?

15 A. Yes.

16 Q. Did the driller put casing lengths on the
17 well logs?

18 A. Yes, he did.

19 Q. If you wanted to know casing lengths,
20 could you independently verify those that were
21 included in your report?

22 A. Yes.

23 MR. BALL: No further questions.

24 CHAIRMAN McCARTER: All right. Questions
25 from the Commission?

EXAMINATION

1
2 By Chairman McCarter:

3 Q. Remember you had a discussion and, as I
4 remember, we have an exhibit, yes, we did it, was
5 Exhibit XIV. It's your drawdown depiction for
6 Culbertson.

7 MR. HARPER: It's in the smaller binder.

8 A. Yes, I do have that. Thank you.

9 Q. All right. This was a specific
10 calculation you performed relative to the Culbertson
11 well using a mine depth of 850 MSL?

12 A. This was a conceptual depiction of the
13 area of the Culbertson well, the relation of the
14 Culbertson well to the quarry, yes.

15 Q. Okay. But you used 850 as the bottom
16 depth of the mine for the purposes of drawdown?

17 A. That's correct.

18 Q. Okay. How did you calculate what you
19 believed the depiction would be in Exhibit XIV?

20 A. The bottom elevation of 850 is what's on
21 the mining plan shown on figure 2 of our report. The
22 data for the Culbertson well was from the well log
23 and from the elevation that was used by Mr. Huntsman
24 when he drew his diagram of the Culbertson well which
25 is a good approximate elevation. The water level,

1 the curve that's shown on there, is approximately
2 what the water level will do outside of the quarry at
3 full mining depth.

4 Q. So the curve that's depicted, that curve
5 is calculated based on the distance and rock
6 formations through which it's traveling?

7 A. That's not a calculated curve. That's a
8 conceptual curve.

9 Q. Okay.

10 A. Just to illustrate that outside of the
11 quarry, we won't have -- it won't be a flat line.
12 We'll have water remaining as you go more distant
13 from the quarry. That's illustrated by the cones of
14 influence on plates 13 and 14 in our report.

15 Q. Okay. And I understand that the cones of
16 influence will carry out, and I thought the point of
17 this Culbertson calculation was to show that maybe
18 contrary to the cone of influence projection that
19 this particular well would have a -- would have
20 greater depth of water because it's not going to --
21 to the extent the projections overprojected towards
22 this well.

23 A. That's essentially correct, yes. The --
24 again, the drawdown contours on plates 13 and 14 are
25 the difference between the calibrated model

1 simulation without any dewatering and the dewatering
2 scenarios, so they're based on those elevations.
3 That elevation is not consistent with the elevation
4 that apparently is at the Culbertson well from the
5 well log data, so it overpredicts what drawdown would
6 be at the Culbertson well, the model does.

7 Q. And that's what I understand that your
8 testimony was relating to the -- to the extent that
9 the cone of depression reflected a drawdown, in fact,
10 potentially below the level of mining at the
11 Culbertson well, it's obviously wrong.

12 A. That's correct.

13 Q. And because the cone of depression can't
14 be lower away from the mine than the actual depth of
15 the mine.

16 A. That's correct.

17 Q. Okay. I was wondering though to what
18 accuracy do you believe that this depiction on XIV
19 predicts what the water level would be at the
20 Culbertson well if mining went to 850.

21 A. I think it's reasonable. I don't know
22 exactly what that number is going to be in the end.

23 Q. Okay. So it wasn't -- there wasn't a
24 specific calculation taking into account all the
25 variety of factors and using this individual well to

1 arrive at the -- at the curved line depicted on the
2 exhibit.

3 A. No. And it would be pretty much
4 impossible to accurately calculate that. We could
5 base it on the assumptions I can do a theoretical
6 distance drawdown based on the model parameters. I
7 could give you a number that way. Exactly what's
8 going to happen at that well depends on conditions
9 that are smaller scale that we may or may not have a
10 good definition of.

11 Q. With regard to the water that supplies
12 the fen, that water comes from a perched aquifer; is
13 that correct?

14 A. That appears to be the case, yes.

15 Q. All right. And a perched aquifer has a
16 aquitard of some sort below it that prohibits the
17 water from migrating to a lower elevation?

18 A. That's correct.

19 Q. Did your study in any way calculate the
20 cone of depression relative to the perched aquifer
21 for the fen?

22 A. No, it does not.

23 Q. The data that you used for your study
24 comes relative to water levels from well logs,
25 correct?

1 A. Primarily, yes.

2 Q. Was there any data that would be
3 reflective of a perched aquifer?

4 A. No. There's no wells that are completed
5 in that area in a perched aquifer. There's no wells
6 that are completed in the fen location to be able to
7 find the stratigraphy at that location.

8 Q. Okay. And your study does not in any way
9 depict the watershed for the perched aquifer feeding
10 the fen?

11 A. No, it does not.

12 Q. Could you turn to Exhibit G, page 10 of
13 the report, Bates No. 4175, please.

14 A. I have that.

15 Q. Directing you to the paragraph at the
16 bottom. Okay. This -- this paragraph at the bottom
17 relates to calibration of your model, correct?

18 A. Yes, sir.

19 Q. All right. And in particular relates to
20 the Echo Hills area northwest of the Phase 2 quarry
21 area?

22 A. That's correct.

23 Q. All right. It's my understanding that
24 your data input for your model was to be based on a
25 4-mile radius; is that correct?

1 A. That's -- the hydrologic study area is
2 defined by ODNR as a 4-mile radius around the site.
3 We actually included a larger area within our model.

4 Q. The 4-mile radius comes from Rule
5 1501:14-5-01? And I'm looking at (A) (2).

6 A. I'm sorry. Which part of the Code was
7 that again, sir?

8 Q. Code 1501:14-5-01 Hydrology, it's the one
9 that Mr. Yskamp was asking you about recently.

10 A. Yes.

11 MR. HARPER: May I approach and help?

12 CHAIRMAN McCARTER: Certainly.

13 A. I got it. I found it for myself.

14 Q. And I was referencing (A) (2).

15 A. Yes, that is where that comes from.

16 Q. Okay. So I am just trying to understand
17 how you're setting this up. So you've got to put in
18 for your hydrologic study up to 300 wells within a
19 4-mile radius of the mining site.

20 A. Yeah. The 300 well logs are the maximum
21 that are required by the rule to be submitted with
22 the report.

23 Q. Okay.

24 A. That's not to say that that's any basis
25 for the number of wells that we actually use as data

1 points. And, of course, we used considerably more
2 than 300 well logs, close to 2,000 well logs within
3 this area.

4 Q. Within the 4-mile radius?

5 A. Within the model area it was mostly
6 within the 4-mile radius, yes.

7 Q. Okay. So the anomaly or inconsistency at
8 Echo Hills, is that driven by the fact that there's
9 other data points outside of that area that reflect
10 something that's different --

11 A. It appears to be something that's very
12 localized to the Echo Hills area. When you get
13 outside of that area, you don't see that kind of a
14 discrepancy.

15 Q. Is there any requirement to do a smaller
16 study, say a mile radius study?

17 A. No, there's not.

18 Q. Okay. And your study then is required to
19 be on the 4-mile radius?

20 A. It's required -- the overall hydraulic
21 study is required to be on the 4-mile radius.

22 Q. Okay. Because my understanding of your
23 testimony is that the data available and required to
24 be used, which is well log data, plus the area of the
25 study to be incorporated results in the model

1 predictions achieved.

2 A. The combination of all that data are
3 what's used to create the groundwater flow model and
4 that's what our conclusions are based on.

5 Q. And to the -- and to the extent that Echo
6 Hills represents an anomaly, it is within the
7 requirement -- the rule requirement for the
8 hydrologic study.

9 A. It was -- that sort of a thing isn't
10 covered specifically by the rules. It's a situation
11 that we encountered. We attempted to resolve and we
12 discussed it and we averaged the water levels in that
13 area for our model purposes.

14 Q. I believe a number of times you testified
15 something to the effect of the model is based on the
16 data required; is that a fair statement?

17 A. It's based on the data available.

18 Q. Available. And the data available is
19 well log data, correct?

20 A. And other publications, yes.

21 Q. But relative to more real site-specific
22 water levels, et cetera, site-specific data is well
23 log data, correct?

24 A. That's correct.

25 Q. And you're not required to go out and

1 make test borings?

2 A. No, we are not.

3 Q. Not required to go out and do test wells
4 and perform specific testing?

5 A. No. You're correct.

6 Q. You might do such things if you were
7 seeking to make a more detailed model, say, for
8 development of a municipal water supply though.

9 A. Yes, sir.

10 Q. So if you were modeling for something
11 that was very specific for development of water,
12 there is further testing that could be done, correct?

13 A. Absolutely.

14 Q. But there is not the requirement relative
15 to the modeling pursuant to the rules to do anything
16 beyond use the well log data that's publicly
17 available.

18 A. That's correct.

19 Q. So your model is constrained by the well
20 log data that's publicly available.

21 A. Yes, it is.

22 Q. And that data is a snapshot of whatever
23 the well log or the well driller put in the log on
24 one particular day.

25 A. That's correct.

1 Q. It doesn't reflect seasonal variations.

2 A. No.

3 Q. And there's no requirement to -- or is
4 there a requirement to depict dip and stripe relative
5 to the layering of the formations in conjunction to
6 the high wall of the proposed mine site?

7 A. That's depicted on the cross-sections.

8 Q. Based upon well logs that have calculated
9 or set forth the different strata?

10 A. Part of it's based on well logs. Part of
11 that's based on structure contour maps that we get
12 from the Ohio Geological Survey.

13 Q. Does -- is dip and stripe calculated into
14 your drawdown contour map?

15 A. Dip and stripe don't relate to the
16 drawdowns. They relate to how we set up the model
17 layers. So, for instance, the bottom of model layer
18 three is based on the structure contour map for the
19 base of the carbonate, top of the Ordovician
20 throughout this area, because really the only
21 structure contour map that was available.

22 Q. Exhibit 46 which is the Culbertson well.

23 A. Yes, I have that.

24 Q. Well, maybe you just recently answered
25 this question but this wasn't in your report,

1 correct?

2 A. That's correct.

3 Q. And this is one of the three wells on
4 Exhibit XIII that you just testified was not in the
5 ODNR database?

6 A. That's correct.

7 Q. Okay. That's the electronic database
8 that ODNR supplied?

9 A. That's the electronic and if you go
10 online, there's an interactive map that shows you
11 those well locations also, so they were not there
12 either.

13 Q. Bear with me a second. This is from last
14 time. Could you turn to Exhibit Q, please, page
15 22 which is Bates 393.

16 A. I have that.

17 Q. Do you see in the paragraph that starts
18 "Table 4," the last sentence?

19 A. Sorry. Which page?

20 Q. I'm sorry, 22, Bates 393.

21 A. Yes, sir.

22 Q. And the paragraph that begins "Table 4,"
23 which is the first paragraph, the last sentence, it
24 says "The well-specific estimated hydraulic
25 conductivity values (Table 4) were used to calculate

1 a geometric mean of 12 feet a day."

2 A. I do see that.

3 Q. Okay. If that was applied to your model,
4 what effect would it have?

5 A. In order to calibrate a model, you have a
6 balance between all of your various inputs, and so if
7 we increase the hydraulic conductivity, we would also
8 have to increase the recharge to maintain water level
9 elevations at the same calibrated level. So the
10 amount of water moving may change, but the position
11 of the 10-foot drawdown contour would probably not
12 significantly change.

13 Q. A lot of exhibits.

14 MS. OSTERMAN: I have a question specific
15 to what you just asked.

16 CHAIRMAN McCARTER: Go ahead and ask it.
17 Go ahead.

18 MS. OSTERMAN: I am going to ask a
19 question. Based on the same information that Sean
20 just referred to, which is that the well-specific
21 estimate -- estimated hydraulic conductivity values
22 calculate mean of 12 feet per day, okay, that
23 sentence, how does that -- and I think the units of
24 measurement are different. How does that relate, or
25 maybe it's a totally different concept, to your

1 recharge of .5 inch per year?

2 THE WITNESS: That does not relate to the
3 recharge. That's the aquifer hydraulic conductivity
4 that's being referred to on page 22 of the Bowser
5 Morner report.

6 CHAIRMAN McCARTER: Recharge is the water
7 coming down, correct?

8 THE WITNESS: Correct.

9 MS. OSTERMAN: And this is the water --
10 the Bowser Morner 12 feet per day, that's the water
11 moving through?

12 THE WITNESS: That's a rate of flow in
13 the aquifer.

14 MS. OSTERMAN: It's a horizontal
15 measurement so that has nothing to do with the .5
16 inch per year.

17 THE WITNESS: That's correct.

18 Q. (By Chairman McCarter) Exhibit XVIII, the
19 appendix A of water well logs.

20 A. Oh, the one that was just --

21 Q. Today's exhibit, the thinner of the well
22 log.

23 A. Yes, I have that.

24 Q. All right. These are the specific well
25 logs that are used to do the cross-sections that are

1 depicted in Exhibit G at plates 5 and 6, Bates Nos.
2 4591 and 4592; is that correct?

3 A. That is correct. We also used
4 site-specific borings which were included in appendix
5 B of the report on those cross-sections.

6 Q. Okay. And these cross-sections are
7 reflected in -- is it in plate 1?

8 A. Yes, that's correct.

9 Q. So in plate 1 the cross-sections, which
10 is Bates No. 4587 of Exhibit G, represent an almost
11 straight line north-south and east-west going from
12 well to well.

13 A. That's correct.

14 Q. These cross-sections are, what, about
15 4 miles because they go from --

16 A. Yes, sir. Actually about 8 miles, about
17 4 miles each way.

18 Q. Yeah, each one would be -- each way.
19 Okay.

20 A. Yes.

21 Q. And in looking at Exhibit XVIII, if we go
22 to -- if we go to the first well log. I'll give you
23 a chance. Looks like this.

24 MS. OSTERMAN: Is it 4226?

25 CHAIRMAN McCARTER: There you go.

1 Q. If you go to the first log, Bates No.
2 4226.

3 A. Yes.

4 Q. It doesn't have the GPM listed down at
5 test rate so let's go to the second. It says 7 GPM,
6 correct?

7 A. That's correct.

8 Q. Next one says 1 GPM. Next says 20 GPM.
9 Next 25 GPM. Next 5 GPM. Following that 15.
10 Following that 10. Next is 10. And the next at 4235
11 is at 100 GPM.

12 A. That's correct.

13 Q. Significant change to -- in volume,
14 correct?

15 A. That's a much higher pumping rate, yes.

16 COMMISSIONER CLUM: It's a what?

17 CHAIRMAN McCARTER: Much higher pumping
18 rate.

19 COMMISSIONER CLUM: Oh.

20 Q. And the one following that is 10 GPM and
21 that's it for the cross-section reflected at plate 5.

22 A. That's correct.

23 Q. All right. And then if we look at the
24 next portion of this, which is the other
25 cross-section, cross-section B to B prime reflected

1 on plate 6 at Bates No. 4238, the first log sets
2 forth 35 GPM. The next 10. The next is blank. The
3 next is 12. Following that is 10, following that is
4 12. Following that is 10. Next is 25. Then 10.
5 Then 20. Then 25. Then 15. Then 20. Then 40.
6 Then 25. Then 60. Then 60 again. Then 45. Then
7 30. Next is blank. Then 9. Then 15. Then 20.
8 Next is blank. Then 10. Then 10. It seems to be
9 that there's some clustering of those higher
10 production wells as you come across that
11 cross-section; is that fair?

12 A. There were some higher pumping rates but
13 this is why we look at specific capacity because what
14 a well is pumped at, especially for short duration,
15 doesn't necessarily indicate what the real
16 sustainable yield of a well is. And so if the well
17 was only pumped for half an hour at 60 gallons a
18 minute and it had 80 feet of drawdown just, for
19 instance, then that's not a very good well. Yeah,
20 you can pump it at a higher rate for a shorter period
21 of time, but it's not sustainable so there's more to
22 it than just looking at pump drain.

23 Q. But they were -- but you were -- you also
24 took into account then drawdown rates to calculate
25 the specific capacity, in other words, how hard can

1 you pump this thing in reality.

2 A. This specific capacity accounts for the
3 drawdown and so it's -- it evens the way you look at
4 pumping rates between wells.

5 Q. What's -- what's the purpose -- I know
6 it's required by the rule but what's the purpose of
7 plotting these wells on these two bisecting axes?

8 A. It shows us the distribution of the
9 materials throughout the area. It shows us, you
10 know, as we talked about, strike and dip. It shows
11 us where residential wells are completed, upper/lower
12 aquifer. It shows us where the water levels are at,
13 so if the water level is below the top of the rock,
14 then the aquifer is going to be unconfined. If it's
15 above the top of the rock, it will be confined so
16 that changes the way that the model handles the
17 calculations. So there's quite a lot of information
18 that we derive from the cross-section.

19 Q. Could you look at Exhibit 40, please.

20 A. Yes, I have that.

21 Q. Okay. And this is from the Ohio EPA,
22 this document?

23 A. Yes.

24 Q. If you look to the attached table with
25 Bates 1796.

1 A. Yes.

2 Q. This is a table regarding, what do they
3 call it, public water systems within 5 miles of the
4 application. And if I look at the far right corner
5 that's in relation to these various wells, the far
6 right column.

7 A. Yes.

8 Q. Many of them are -- have a statement of
9 "carbonates with karst features." Do you see that?

10 A. I do.

11 Q. Do you know how they would be able to
12 determine that for these wells?

13 A. I don't. When I look, for instance, at
14 the log for the Greenon High School well, I don't see
15 any indication of voids or cavities or caves or
16 caverns, whatever you want to call them, that might
17 be on a well log that would indicate solution
18 channels deeper in the rock at the high school. I
19 have been there. I don't see sinkholes anywhere. I
20 don't see an indication of karst topography, so I
21 don't know what they're basing that on.

22 Q. Have you ever had any consultation with
23 anyone from Ohio EPA regarding the concerns set forth
24 in this letter, Exhibit 40?

25 A. No, I have not and this was put out six

1 months after we submitted our report.

2 Q. Did anyone from DNR ever come to you
3 regarding the concerns reflected in Exhibit 40 to
4 make inquiry?

5 A. No, they did not.

6 Q. In sum relative to your modeling, and in
7 particular your cone of depression conclusions, is it
8 fair to say that those are based upon the predictions
9 that are generated by the well logs and other public
10 data available?

11 A. Yes, those were the basis for our models,
12 so our conclusions are based on that data.

13 Q. Is it fair to say that while not
14 required, a different conclusion could be reached if
15 extensive specific study was done including test
16 borings and test wells?

17 A. It's possible.

18 Q. But, again, your modeling and your cone
19 of depressions is based upon the data from the well
20 log and other published sources.

21 A. And other sources, that's correct.

22 Q. But the well logs, that data is the most
23 significant factor in developing the projections of
24 your model?

25 A. It is the site-specific data that we have

1 to work with, yes.

2 CHAIRMAN McCARTER: Inquiry?

3 MS. OSTERMAN: Yes. As far as the data
4 from the well logs, for example, the casing
5 information, you didn't factor that into your model.

6 THE WITNESS: No. That has nothing to do
7 with the model.

8 MS. OSTERMAN: Okay. That's one of the
9 items, the casing is one of the items that's listed
10 in the regulation you're looking at.

11 THE WITNESS: Yes, it is.

12 MS. OSTERMAN: So why isn't that part of
13 what you did in developing your model?

14 THE WITNESS: The casing information
15 doesn't have anything to do with the model. It is
16 required to be on the well summary table.

17 MS. OSTERMAN: But it wasn't in this
18 case, right?

19 THE WITNESS: No. And I believe that's
20 probably because it's not in the electronic database
21 that we received from ODNR.

22 MS. OSTERMAN: And are you --

23 THE WITNESS: I would have to
24 doublecheck.

25 MS. OSTERMAN: Even despite the language

1 of the regulation, you believe that you're limited to
2 what is in the database; in other words, this is
3 saying that you should provide the casing length, but
4 you're saying you didn't do it because it wasn't in
5 the database, so we're not following necessarily the
6 language of the regulation there?

7 THE WITNESS: We have not in the past
8 been required to go dig that data out for every
9 specific well log.

10 MS. OSTERMAN: If we look at Q, Exhibit
11 Q, which is the Bowser Morner again.

12 THE WITNESS: Uh-huh.

13 MS. OSTERMAN: And now I'm looking at
14 pages 391 and 392, and that's where Bowser Morner
15 discusses recharge, and you just explained to me what
16 the difference was between recharge and the hydraulic
17 conductivity.

18 THE WITNESS: Yes.

19 MS. OSTERMAN: Your recharge was .5 inch
20 per year, right?

21 THE WITNESS: Over part of the area, yes.

22 MS. OSTERMAN: But that's in the area
23 where the mine will be located.

24 THE WITNESS: Correct.

25 MS. OSTERMAN: Okay. And what is Bowser

1 Morner, what is the comparable figure that they're
2 coming up with?

3 THE WITNESS: They use 4 inches per year.

4 MS. OSTERMAN: They said 4 inches per
5 year. And can you explain why there's such a
6 difference there?

7 THE WITNESS: I can explain why I arrived
8 at the number that I arrived at. I cannot explain
9 why they used the number they used. When I
10 determined that the hydraulic conductivity was much
11 lower than what I had initially started with or what
12 you might think, then that also required a lower
13 recharge rate to achieve calibration of the model.

14 MS. OSTERMAN: If you were to use their
15 figure, how would that change -- would that change
16 your model?

17 THE WITNESS: The model has to be much
18 higher.

19 MS. OSTERMAN: Be much higher. Higher
20 meaning what?

21 THE WITNESS: The water level elevations
22 in the model would be much higher than they are.

23 CHAIRMAN McCARTER: Because the water
24 coming down wouldn't flow out so it would stack up?

25 THE WITNESS: It would do a little of

1 both, but it would stack up because of the lower
2 hydraulic conductivity of the bedrock.

3 CHAIRMAN McCARTER: Because Bowser Morner
4 was assuming that the water coming down would flow
5 out at a greater rate than your model assumes.

6 THE WITNESS: Because they used the
7 higher hydraulic conductivity for the bedrock, that's
8 correct.

9 MS. OSTERMAN: I guess I get confused,
10 and I'm just going to have to eventually read
11 everything and understand it better. It seems that
12 sometimes you're adjusting numbers -- and you are
13 adjusting numbers --

14 THE WITNESS: We are.

15 MS. OSTERMAN: -- to make them work.

16 THE WITNESS: We're adjusting numbers
17 based on the available data. The hydraulic
18 conductivity that we use is based on the
19 specific-capacity data from the well logs.

20 MS. OSTERMAN: That's based on the well
21 logs.

22 THE WITNESS: Correct.

23 MS. OSTERMAN: Okay. And I had questions
24 from last time we were together, and I can't
25 understand what I was -- I have no idea what was

1 bothering me, but a lot of things were bothering me.

2 I have no idea what they are.

3 I know you're just going to say yes,
4 you're right. The cone of depression is not a
5 perfect circle or anything. It's going to be
6 irregular based on what's going on at the ground,
7 type of materials and --

8 THE WITNESS: It's based on type of
9 materials. It's based on the water level elevation
10 to start with. So, yeah, there are several factors.
11 It would be based on the influence of streams in the
12 area, hydraulic conductivity changes.

13 MS. OSTERMAN: So the one drawing that we
14 had of the Culbertson well that showed that, you
15 know, the cone of depression is going to rise from
16 the lowest level of mining, it isn't going to be a
17 perfect circle. That might be the conceptual idea of
18 what it is. It may be different in --

19 THE WITNESS: It won't be symmetric, no,
20 and it's not depicted as symmetric in our model.

21 MS. OSTERMAN: But it would never go down
22 lower.

23 THE WITNESS: It cannot go lower.

24 MS. OSTERMAN: Okay. Like I said, I have
25 no idea what was bothering me a couple weeks ago, but

1 I think you've answered my questions. Thank you.

2 CHAIRMAN McCARTER: Any further questions
3 from the Commission?

4 Follow-up to the Commission's questions?

5 MR. HARPER: Briefly.

6 - - -

7 FURTHER REDIRECT EXAMINATION

8 By Mr. Harper:

9 Q. Mr. Champa, following up on
10 Ms. Osterman's question, if the recharge -- if you
11 just changed the recharge rate to 4 inches per year
12 as the value that apparently was used in the Bowser
13 Morner, is that going to make the cones of depression
14 larger or smaller?

15 A. That would make the cone of depression
16 smaller just by itself but it would also change the
17 calibration conditions.

18 Q. And with regard to adjusting values, the
19 calibration required -- does calibration require
20 adjustment of values as part of the process that
21 calibrate a model?

22 A. Yes, absolutely.

23 Q. I mean, I guess is there anything, you
24 know, sinister and nefarious or out of the ordinary
25 in adjusting values in the course of calibrating this

1 model?

2 A. Not at all.

3 Q. Have you done that in every model you've
4 ever done?

5 A. I'm certain, yes.

6 Q. And you -- I believe you've testified
7 before, but I want to be clear that to the extent the
8 values were being adjusted as part of calibration,
9 that all occurred before you had ever even seen what
10 the actual cones of depression were going to look
11 like; is that -- do I recall that correctly?

12 A. That's correct.

13 Q. So you were not adjusting one value or
14 another to either enlarge or contract the cone of
15 depression?

16 A. Not at all.

17 Q. The cone of depression is just the result
18 of a calibrated model.

19 A. That's correct.

20 Q. And, again, with regard to your recharge
21 rate of .5 you discussed earlier that the Kunkle
22 study --

23 A. Rowland and Kunkle.

24 Q. Which we had offered as Exhibit --
25 Intervenor's Exhibit XVII, that supports similar

1 values in an area of similar stratigraphy. Thank
2 you.

3 A. Yes, in a similar hydrogeologic setting,
4 yes.

5 Q. So you're -- I mean, the fact that
6 there's a difference between, you know, Bowser
7 Morner's assumption and your assumption doesn't make
8 your assumption less valid, correct?

9 A. No. I don't believe so.

10 Q. And there is public data that would be
11 consistent with your value that we've showed in this
12 exhibit.

13 A. That's correct.

14 Q. Do you still have the hydrology
15 regulation, 1501:14-5-01, that we were looking at and
16 you were asked about casing length?

17 A. I do.

18 MR. HARPER: And if I can just approach
19 to show him where I'm looking, Mr. Chairman.

20 CHAIRMAN McCARTER: Certainly. We're
21 still looking for the statute.

22 MR. HARPER: Okay. We'll take our time.
23 Just let me know when you're ready, Mr. Chairman.

24 CHAIRMAN McCARTER: We're good. Go
25 ahead.

1 Q. (By Mr. Harper) You were -- you've been
2 asked about this issue of casing length listed under
3 (4) (a).

4 A. Yes.

5 Q. And do you see the paragraph that is
6 paragraph (a) under (4)?

7 A. Yes.

8 Q. Starts "A listing of water sources."

9 CHAIRMAN McCARTER: Can you speak up,
10 please.

11 Q. Sure. If the -- again, going back to
12 (4) (a), actually paragraph (a) starts "A listing of
13 water sources in the proposed permit and hydrologic
14 study area," et cetera. Do you see that?

15 A. Yes, I do.

16 Q. Then if you go to the last sentence of
17 (a), it says "The listing shall include to the extent
18 available the" and then it has a list of all these
19 things, correct?

20 A. Correct.

21 Q. Including casing length; is that right?

22 A. That's correct.

23 Q. So these are things to include if you
24 have the data from the source; is that right?

25 A. That's correct.

1 Q. And in this case do I understand that the
2 source is this electronic ODNR file of well log data?

3 A. Yes, that's what we used to create the
4 table.

5 Q. And maybe you could just explain to the
6 Commission how do you get that? I mean, do you call
7 somebody? Do you go online? How do you -- how's
8 that happen?

9 A. For a database this size, we call
10 somebody at the Division of Water and we say -- we
11 give them coordinates and say we want all well logs
12 within this area. We could do that as a radius. We
13 could specify a point and say we want a 4-mile radius
14 from this point so, but we would have -- for this we
15 would have called somebody, yes.

16 Q. Okay. And so if that data was not in the
17 electronic file provided to you, you wouldn't have
18 had it to utilize in populating that table in the
19 model.

20 A. That's correct.

21 Q. In any event does the casing length,
22 either being there or not being there, does it change
23 any of the conclusions of your model?

24 A. No.

25 Q. So the fact that it's -- whether it's

1 there or not there, would your -- would the
2 conclusions of your model remain the same?

3 A. Yes, they would.

4 Q. Mr. -- the Chairman asked some questions
5 about this fen.

6 A. Yes.

7 Q. And you were asked whether you believe
8 that it's a perched fen, and you -- I think you said,
9 yes, you do.

10 CHAIRMAN McCARTER: Perched aquifer?

11 Q. Perched aquifer.

12 CHAIRMAN McCARTER: It's fed by a perched
13 aquifer was the question.

14 MR. HARPER: Thank you, Mr. Chairman.

15 Q. And you believe that to be the case,
16 correct?

17 A. I do.

18 Q. Assuming that is the case, would the
19 dewatering have any effect on a fen that is fed by a
20 perched aquifer?

21 A. No, it would not.

22 Q. Why not?

23 A. Because the water source is separated
24 from the carbonate bedrock by some thickness of low
25 permeability material. So whatever rate the material

1 is leaking down out of that fen now through that low
2 permeable material, it's going to continue to do
3 that. The dewatering of the bedrock isn't going to
4 change that.

5 Q. Okay. And is there anything with regard
6 to a fen fed by a perched aquifer that would need to
7 be part of your model?

8 A. No, not in this instance.

9 Q. Okay. Let me be more specific. Does it
10 need to be a part of this model?

11 A. No, it does not.

12 Q. You testified to certain well logs that
13 were not available in ODNR database at the time that
14 you did the model, correct?

15 A. That's correct.

16 Q. Now, I believe though that you also
17 testified that the water well logs that Mr. Yskamp
18 asked you some questions about today, which I believe
19 were Exhibits MMM, NNN, and OOO, those are part of
20 the well logs that you had for the model, correct?

21 A. Yes, they are.

22 Q. As to the well logs that were not
23 available to you but now that you have seen, do they
24 change any of your conclusions reached in the course
25 of the modeling?

1 A. No, they don't.

2 Q. So notwithstanding you have looked at
3 them now, you do not see anything that would change
4 the assumptions in your model?

5 A. That's correct.

6 Q. Or the results of your model?

7 A. That's correct.

8 MR. HARPER: I have nothing further for
9 Mr. Champa at this time. Thank you.

10 CHAIRMAN McCARTER: Okay. On behalf of
11 CAM?

12 - - -

13 FURTHER RE-CROSS-EXAMINATION

14 By Mr. Yskamp:

15 Q. Did you do any analysis on whether
16 deepening the quarry would intersect the perched
17 aquifer that feeds the fen?

18 A. Deepening the quarry?

19 Q. Doing the mining at the quarry so I
20 understand there is no quarry there.

21 A. The elevation of the fen is already above
22 the elevation of the bedrock in that area, so
23 deepening of the quarry is not going to change that
24 relationship at all.

25 Q. Did you do any analysis on it?

1 A. We've looked at the elevations and the
2 water level elevations in the area, yes.

3 Q. So you said you didn't have any wells
4 that were completed in this perched aquifer.

5 A. That's correct.

6 Q. So what -- you don't know the elevation
7 of the groundwater that feeds the fen.

8 A. We know the elevation of the ground
9 surface at the fen which I believe is around 970.
10 From the additional data that we got from the new
11 well logs the highest water level elevation is 944.
12 So that's -- yeah, 26 feet of difference between the
13 surface and the groundwater elevation.

14 Q. I mean, the fen is fed by groundwater.

15 A. It's fed I think in part by surface water
16 also.

17 Q. Do you know --

18 A. If you look at the topography in the
19 area, there is a lot of surface water drainage,
20 particularly from the west, that comes into that fen
21 from the south.

22 Q. Isn't the definition of a fen a wetland
23 that's fed by groundwater?

24 A. Yes.

25 Q. Okay. So it's fed by groundwater.

1 A. It's fed by groundwater and surface water
2 in this case.

3 Q. And you -- you don't know what the
4 elevation is of that groundwater that feeds the fed.

5 A. Well, the fen itself is an expression of
6 the groundwater level, so the groundwater level at
7 that fen is around 970.

8 Q. When you -- so when you -- when the
9 quarry is open, isn't it the case that water is being
10 pulled into it?

11 A. Yes.

12 Q. Okay.

13 A. Once we go below the water table.

14 Q. Right. And couldn't that be true for
15 that perched aquifer?

16 A. Not unless there's a better hydraulic
17 interconnection than what is apparent by the water
18 level data.

19 Q. And but you don't know the water level
20 data. You know the surface elevation.

21 A. That's correct.

22 Q. For the values for hydraulic conductivity
23 and for recharge, we talked a lot about calibrating.
24 But isn't it the case that you do want to use
25 accurate real world values for those parameters?

1 A. We want to -- we want to use values that
2 are realistic.

3 Q. Right. So calibration is within a
4 reasonable range for those values, right?

5 A. That's correct.

6 MR. YSKAMP: That's all I have.

7 MR. BALL: No further questions.

8 - - -

9 FURTHER EXAMINATION

10 By Chairman McCarter:

11 Q. Relative to the fen there's an aquitard
12 below that that's causing it to be a perched aquifer;
13 is that correct?

14 A. That's what we believe to be true based
15 on the water level relationships, yeah.

16 Q. And the level of that aquifer -- or that
17 aquitard which impedes the downward flow of water
18 would be near the level of the expression of the fen?

19 A. Yes, within some number of feet.

20 Q. Okay. The fen isn't fed by water under
21 pressure coming from below.

22 A. No, it's not.

23 Q. So the study you've completed using well
24 data logs is from wells that were developed in water
25 that exists below the level of the aquitard of the

1 fen.

2 A. That's correct.

3 Q. So that data would not be reflective of
4 the perched aquifer that the fen is produced from.

5 A. No. And that's why we conclude that it's
6 perched because the water level in the bedrock is 26
7 feet lower than the ground elevation at the fen.

8 Q. And your position is that the
9 requirements for completing your study pursuant to
10 the administrative rules wouldn't reach to the
11 perched aquifer in this instance because water wells
12 are not developed in it?

13 A. That's correct. And surface water
14 impacts are not addressed by these rules also.

15 CHAIRMAN McCARTER: Nothing further.

16 Anything further?

17 MS. OSTERMAN: Can I ask one question and
18 then you can ask yours. The rule that we're looking
19 at that describes how we do the groundwater modeling,
20 that doesn't mention the ODNR database specifically,
21 does it?

22 THE WITNESS: It mentions the well logs.

23 MS. OSTERMAN: Well, when it says --

24 THE WITNESS: That's what we get from the
25 database.

1 MS. OSTERMAN: -- to the extent some
2 information is available obviously that isn't in that
3 database.

4 THE WITNESS: Yes.

5 MS. OSTERMAN: But you -- but you still
6 feel limited to the database.

7 THE WITNESS: I'm not sure what you mean
8 by that.

9 MS. OSTERMAN: Mr. Harper read --

10 THE WITNESS: That's one source -- that's
11 one source of information that we had.

12 MS. OSTERMAN: Right.

13 THE WITNESS: We used a lot of other
14 sources of information besides the well log database.
15 If you're talking about the casing lengths, could we
16 have gone through every well log and determined that
17 and added it to the table, yes, we could have. It
18 wouldn't have changed anything.

19 MS. OSTERMAN: And it wouldn't have
20 changed anything. Okay.

21 - - -

22 EXAMINATION

23 By Commissioner Clum:

24 Q. On the exhibit behind you, could you
25 point to me where the fen is real quick like.

1 MR. HARPER: That's all I have.

2 CHAIRMAN McCARTER: Any follow-up
3 regarding the fen? Any follow-up?

4 You're excused, Mr. Champa. Thank you
5 for your testimony. We will take a break until 1:30.

6 (Thereupon, at 12:45 p.m., a lunch recess
7 was taken.)

8 - - -

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Intervenor's
Exhibit
XVIII

ALL-STATE® INTERNATIONAL

APPENDIX A.

WATER-WELL LOGS USED ON CROSS SECTIONS

**LOGS USED ON CROSS-SECTION A-A'
WEST TO EAST**



Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 139422

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LUTHER OBER

County: CLARK

Address: SR 4

City:

Location Number: 162

Latitude: 39.859286

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.969811

Section Number: 11

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 33 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 33 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 1/10/1955

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: GRAVEL

Total Depth: 33 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 17 ft.

Drawdown:

COMMENTS:

Test Rate:

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
TOP SOIL	0	5
GRAVEL	5	33
SAND & GRAVEL	33	33
WATER AT		33

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 921917

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BOB INGOLDSBY*

County: *CLARK*

Township: *MADRIVER*

Section Number:

Address: *5463 ENON-XENIA PI*

Lot Number:

City:

State: *OH*

Zip Code: *45324*

Location Number:

Location Map Year:

Location Area:

Latitude: *39.854350*

Longitude: *-83.94633*

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *35 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *35 ft.*

Casing Thickness: 1: *0.265 in.*

2:

2:

2:

Casing Height Above Ground: *1*

Aquifer Type: *SHALE*

Well Use: *DOMESTIC*

Date of Completion: *3/28/2001*

Total Depth: *97 ft.*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *30 ft.*

Test Rate: *7 gpm*

[Associated Reports](#)

Drawdown: *50 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	4
LIMESTONE	4	27
SHALE	27	64
LIMESTONE	64	70
SHALE	70	97

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 901172

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MINDY HOGAN

County: CLARK

Township: MADRIVER

Address: 5446 HUNTER RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.852720

Longitude: -83.93843

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

Borehole Depth: 1: 200 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1: 0.17 in.

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion: 11/6/1999

Total Depth: 200 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 50 ft.

Test Rate: 1 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	10
SAND & GAS Gravel	10	20
LIMESTONE	20	50
SHALE	50	200

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1003792

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT LYONS*

County: *CLARK*

Address: *5429 FOWLER RD*

City:

Location Number:

Latitude: *39.851580*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.92167*

Section Number:

Lot Number:

Zip Code: *45504*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*

2:

Borehole Depth: 1: *45 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *42 ft.*

2:

Casing Thickness: 1: *0.26 in.*

2:

Casing Height Above Ground: 1

Date of Completion: *6/12/2006*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Type:

Set Between: *From: 42 ft. To: 45 ft.*

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *5 ft.*

Drawdown: *10 ft.*

Aquifer Type: *SAND & GRAVEL*

Total Depth: *45 ft.*

Slot Size: *0.08 in.*

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: *DOMESTIC*

Screen Length: *3 ft.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
GRAVEL & CLAY	3	39
SAND & GRAVEL	39	45
WATER AT	43	43

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1012451

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *M VERBILLION*

County: *CLARK*

Address: *5256 HAGAN*

City:

Location Number:

Latitude: *39.853020*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90446*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8 in.*

2: *5 in.*

Borehole Depth: 1: *25 ft.*

2: *77 ft.*

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *27 ft.*

2:

Casing Thickness: 1: *0.188 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *10/6/2009*

Driller's Name: *HALL & JENKINS WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *77 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use: *AGRIC/IRRIG*

Screen Length:

WELL TEST DETAILS

Static Water Level: *28 ft.*

Drawdown: *5 ft.*

Test Rate: *25 gpm*

Test Duration: *6 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	18
LIMESTONE	18	21
SHALE	21	25
LIMESTONE & SHALE	25	34
WHITE LIMESTONE	34	48
BROWN LIMESTONE	48	70
LIMESTONE	70	77
WATER AT	56	57
WATER AT	70	71

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 973489

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *JIM KELLY*

County: *CLARK*

Address: *5220 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.852610*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88911*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.87 in.*
2: *4.5 in.*

Borehole Depth: 1: *85 ft.*
2: *160 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5.5 in.*
2:

Casing Length: 1: *85 ft.*
2:

Casing Thickness: 1: *0.16 in.*
2:

Casing Height Above Ground: *1*

Aquifer Type:

Date of Completion: *4/26/2005*

Total Depth: *160 ft.*

Well Use: *DOMESTIC*

Driller's Name: *EATON WELL DRILLING INC*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *85 ft.*

Test Rate: *5 gpm*

[Associated Reports](#)

Drawdown: *40 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	11
GRAVEL & CLAY	11	82
LIMESTONE	82	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908665

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRIS BLUE

County: CLARK

Address: 3620 FAIRFIELD PKWY

City:

Location Number:

Latitude: 39.854080

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88358

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 45 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 45 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1.50

Date of Completion: 4/22/2000

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
GRAY CLAY	9	45
LIMESTONE	45	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33539

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TOM COTTINGHAM*

County: *CLARK*

Township: *GREEN*

Section Number: *11*

Address: *CATAWBA RIDGE RD*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *367*

Location Map Year: *1945*

Location Area:

Latitude: *39.851124*

Longitude: *-83.861004*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *51 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *27 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *8/17/1948*

Total Depth: *51 ft.*

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *23 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *6 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	27
LIMESTONE	27	51
WATER AT		51

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 750040

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT THOMPSON*

County: *CLARK*

Township: *MADRIVER*

Section Number:

Address: *5301 SPRINGFIELD-XENIA RD*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: *39.850110*

Longitude: *-83.85791*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *90 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *27 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use: *DOMESTIC*

Date of Completion: *10/10/1992*

Total Depth: *90 ft.*

Driller's Name: *BARKER'S WELL DRILLING, INC.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *28 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	8
DRY GRAVEL	8	14
GRAY CLAY	14	27
LIMESTONE	27	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 108468

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CORP OF ENGINEERS*

County: *CLARK*

Township: *GREEN*

Address: *SR 794*

City:

State: *OH*

Location Number: *71*

Location Map Year: *1980*

Latitude: *39.847931*

Longitude: *-83.8405*

Section Number: *5*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *153 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *8 in.*

Casing Length: 1: *34 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *6/25/1954*

Total Depth: *153 ft.*

Driller's Name: *SELLS WELL AND WATER SUPPLY*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *14 ft.*

Test Rate: *100 gpm*

[Associated Reports](#)

Drawdown: *50 ft.*

Test Duration: *24 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
SAND	18	22
CLAY	22	31
LIMESTONE	31	153

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2007135

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRIS WADDLE

County: CLARK

Township: GREEN

Address: 5422 SPRINGFIELD-JAMESTOWN RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.845278

Longitude: -83.815278

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
2: 4.75 in.

Borehole Depth: 1: 37 ft.
2: 79 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 37 ft.
2:

Casing Thickness: 1: 0.327 in.
2:

Casing Height Above Ground: 1.30

Aquifer Type: LIMESTONE

Date of Completion: 11/18/2006

Total Depth: 79 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite/cement slurry

Vol/Wt Used: 250

Method of Installation: Pumped w/Tremie pipe

Placed TO: 37 ft. TO: 37 ft.

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 60 ft.

Test Duration: 2 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	8
GRAY CLAYEY CLAY	8	29
GRAY-BROWN COARSE/GRAVELLY GRAVEL & SAND	29	31
WHITE LIMEY LIMESTONE	31	79
WATER AT	77	77

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**LOGS USED ON CROSS SECTION B-B'
NORTH TO SOUTH**



Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955802

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SEAN MEYERS

County: CLARK

Township: SPRINGFIELD

Section Number:

Address: 251 ROCKWAY AVE

Lot Number:

City:

State: OH

Zip Code: 45503

Location Number:

Location Map Year:

Location Area:

Latitude: 39.920390

Longitude: -83.88646

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in.

Borehole Depth: 1: 113 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 43 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SAND & GRAVEL

Date of Completion: 5/12/2003

Total Depth: 113 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 35 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY/SAND/GRAVEL	8	28
CLAY & GRAVEL	28	38
LIMESTONE	38	113
WATER AT	25	25

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 653097

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *OLAN HUTZELL*

County: *CLARK*

Township: *SPRINGFIELD*

Address: *3970 LOWER VALLEY PIKE*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.912890*

Longitude: *-83.88638*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *42 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *6 in.*

Casing Length: 1: *42 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *SAND & GRAVEL*

Date of Completion: *11/12/1987*

Total Depth: *42 ft.*

Well Use:

Driller's Name: *DEPEW WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *9.5 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *4 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	20
SAND & GRAVEL	20	42

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 218324

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JUNIOR WALTERS

County: CLARK

Township: SPRINGFIELD

Section Number: 21

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 259

Location Map Year: 1980

Location Area:

Latitude: 39.909987

Longitude: -83.889218

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 39 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.13 in.

Casing Length: 1: 39 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SAND

Well Use:

Date of Completion: 6/3/1959

Total Depth: 39 ft.

Driller's Name: LOWER EDWARD H

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 8 ft.

Test Rate:

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	4
HARD SAND	4	10
GRAY HARDPAN	10	30
FINE SAND	30	35
COARSE SAND	35	39

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433727

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *EAGLE BEVERAGE CO.*

County: *CLARK*

Township: *MADRIVER*

Address: *DAYTON RD*

City:

State: *OH*

Location Number: *1*

Location Map Year: *1980*

Latitude: *39.902976*

Longitude: *-83.887791*

Section Number: *21*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *120 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *30 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *11/30/1971*

Total Depth: *120 ft.*

Driller's Name: *LOWER WELL DRILLING CO.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *12 ft.*

Test Rate: *12 gpm*

[Associated Reports](#)

Drawdown: *70 ft.*

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	120
WATER AT		120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 633529

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY FANNIN

County: CLARK

Township: MADRIVER

Section Number:

Address: 2023 SUNDANCE DR

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.896060

Longitude: -83.8949

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 60 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 11/18/1985

Total Depth: 60 ft.

Well Use:

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
LIMESTONE	14	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 667596

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ASHFORD TURNER*

County: *CLARK*

Township: *MADRIVER*

Section Number:

Address: *4333 LONE WOLF DR*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: *39.893440*

Longitude: *-83.8956*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *93 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *30 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *7/22/1987*

Total Depth: *93 ft.*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: *20 ft.*

Test Rate: *12 gpm*

[Associated Reports](#)

Drawdown: *40 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL	12	18
CLAY	18	26
LIMESTONE	26	93

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 441152

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MILLARD PERKINS*

County: *CLARK*

Address: *2732 TECUMSEH RD*

City:

Location Number: *105*

Latitude: *39.886292*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.899668*

Section Number: *26*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *82 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *27 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/15/1972*

Driller's Name: *FYFFE T J*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *82 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: *16 ft.*

Drawdown:

COMMENTS:

Test Rate: *10 gpm*

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
YELLOW CLAY	0	26
LIMESTONE	26	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2021939

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JONATHON BARTON

County: CLARK

Township: MADRIVER

Address: 3035 TECUMSEH RD S

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.882417

Longitude: -83.89975

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

Borehole Depth: 1: 43 ft.

Depth to Bedrock:

2: 4.78 in.

2: 57 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 43 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 4/14/2009

Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 60 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 43 ft.

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY & SAND	8	38
LIMESTONE	38	100
WATER AT	88	89
WATER AT	95	96

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456602

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Address: 4484 BROADWAY RD

City:

Location Number: 111

Latitude: 39.878150

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.898214

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 70 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 62 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/16/1973

Driller's Name: RUPERT AND SONS DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 70 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 32 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 0.8 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	62
LIMESTONE	62	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2044521

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KIMBERLY HILLIARD*

County: *CLARK*

Township: *MADRIVER*

Address: *4624 DAYTON-SPRINGFIELD RD*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.875640*

Longitude: *-83.900318*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *37 ft.*

Depth to Bedrock:

2: *4.75 in.*

2: *150 ft.*

Casing Diameter: 1: *5 in.*

Casing Length: 1: *37 ft.*

Casing Thickness: 1: *0.327 in.*

2:

2:

2:

Casing Height Above Ground: *1.30*

Aquifer Type: *LIMESTONE*

Date of Completion: *4/30/2013*

Total Depth: *150 ft.*

Well Use: *DOMESTIC*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *250#95GALPER5BAGS*

Method of Installation: *Pumped w/Tremie pipe*

Placed FROM: *37 ft.*

WELL TEST DETAILS

Static Water Level: *65 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *25 ft.*

Test Duration: *2 hrs.*

COMMENTS: *CLEAR*

WELL LOG

Formations	From	To
BROWN DRY SOIL	0	3
GRAY LIMEY LIMESTONE	3	20
YELLOW LIMEY LIMESTONE	20	65
GRAY LIMEY LIMESTONE	65	70
WHITE LIMEY LIMESTONE	70	100
YELLOW LIMEY LIMESTONE	100	130
GRAY LIMEY SHALE & LIMESTONE	130	150
WATER AT	90	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933626

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *JIM MCCUDDY*

County: *CLARK*

Address: *4471 REBERT PI*

City:

Location Number:

Latitude: *39.866710*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.89761*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

2:

Borehole Depth: 1: *80 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *80 ft.*

2:

Casing Thickness: 1: *0.265 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *6/22/2001*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *80 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: *DOMESTIC*

Screen Length:

WELL TEST DETAILS

Static Water Level: *25 ft.*

Drawdown: *10 ft.*

COMMENTS: *RPM MGT.*

Test Rate: *25 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

WELL LOG

Formations	From	To
BROWN CLAY	0	12
LIMESTONE	12	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 309338

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SAYER JENKINS

County: CLARK

Township: MADRIVER

Address: TECUMSEH RD

City:

State: OH

Location Number: 11

Location Map Year: 1966

Latitude: 39.858604

Longitude: -83.895684

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 75 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 10 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/10/1974

Total Depth: 75 ft.

Well Use:

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 26 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	75
WATER AT		75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 150543

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *WOODROW DEMMY*

County: *CLARK*

Township: *MADRIVER*

Section Number: 23

Address: *FAIRFIELD PIKE RD*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *179*

Location Map Year: *1980*

Location Area:

Latitude: *39.849962*

Longitude: *-83.899257*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *49 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion:

Total Depth: *49 ft.*

Driller's Name:

Slot Size:

Screen Length:

Screen Diameter:

Material:

Type:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *8 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *8 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
HARDPAN	0	24
LIMESTONE	24	49
UNKNOWN	0	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 902119

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *DEMMY SAND & GRAVEL*
County: *CLARK* Township: *MADRIVER*
Address: *4324 FAIRFIELD PIKE PI*
City: State: *OH*
Location Number: Location Map Year:
Latitude: *39.8489* Longitude: *-83.89861*

Section Number: 24
Lot Number:
Zip Code: *45502*
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.* Borehole Depth: 1: *79 ft.* Depth to Bedrock:
2: *5.5 in.* 2: *200 ft.*
Casing Diameter: 1: *6.5 in.* Casing Length: 1: *79 ft.* Casing Thickness: 1:
2: 2: 2:
Casing Height Above Ground: Aquifer Type: *LIMESTONE*
Date of Completion: *10/12/1999* Total Depth: *200 ft.* Well Use: *DOMESTIC*
Driller's Name: *EATON PUMP*
Screen Diameter: Slot Size:
Type: Material:
Set Between:
Gravel Pack Material/Size: Vol/Wt Used:
Method of Installation: Placed:
Grout Material/Size: Vol/Wt Used:
Method of Installation: Placed

WELL TEST DETAILS

Static Water Level: *71 ft.* Test Rate: *40 gpm* [Associated Reports](#)
Drawdown: Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
SAND & GRAVEL	2	35
GRAVEL	35	64
GRAVELLY CLAY	64	76
BLUE SHALE	76	86
LIMESTONE	86	200

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 781268

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RAY KEGLEY CONST.

County: CLARK

Township: MADRIVER

Section Number:

Address: 6323 GARRISON RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.836780

Longitude: -83.89832

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 125 ft.

Depth to Bedrock:

2:

2: 125 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 28 ft.

Casing Thickness: 1:

2:

2: 28 ft.

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 10/12/1993

Total Depth: 125 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL	9	21
LIMESTONE	21	60
SHALE	60	85
LIMESTONE	85	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 9929067

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: VILLAGE OF YELLOW SP

County: GREENE

Township: MIAMI

Address:

City:

State: OH

Location Number: 26

Location Map Year: 1945

Latitude: 39.817185

Longitude: -83.890001

Section Number: 21

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 114 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 8 in.

Casing Length: 1: 23 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion: 10/15/1946

Total Depth: 114 ft.

Well Use: MUNICIPAL

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate: 60 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
GLACIAL DRIFT	0	19
WHITE LIMESTONE	19	40
LIMESTONE & SHALE	40	70
LIMESTONE	70	111
SHALE	111	114

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 9929069

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CANNING CO.*

County: *GREENE*

Address:

City:

Location Number: *140*

Latitude: *39.810594*

Township: *MIAMI*

State: *OH*

Location Map Year: *1945*

Longitude: *-83.887479*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *135 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1:

2:

Casing Length: 1:

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *5/1/1905*

Driller's Name: *HUGHES WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *135 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level:

Drawdown:

COMMENTS:

Test Rate: *60 gpm*

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
SURFACE	0	4
LIMESTONE	4	85
SHALE	85	115
BLUE LIMESTONE	115	135
SMALL WATER AT		85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933724

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *YELLOW SPRINGS SCHOO*

County: *GREENE*

Township: *MIAMI*

Address: *201 WALNUT ST S*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.805470*

Longitude: *-83.89034*

Section Number:

Lot Number:

Zip Code: *45387*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *110 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *110 ft.*

Casing Thickness: 1: *0.327 in.*

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: *SHALE*

Date of Completion: *12/5/2001*

Total Depth: *110 ft.*

Well Use: *AGRIC/IRRIG*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *5 ft.*

Test Rate: *45 gpm*

[Associated Reports](#)

Drawdown: *80 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
GRAY CLAY & GRAVEL	8	12
LIMESTONE	112	105
SHALE	105	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 166011

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ANTIOCH COLLEGE*

County: *GREENE*

Township: *MIAMI*

Section Number:

Address:

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *79*

Location Map Year: *1989*

Location Area:

Latitude: *39.800804*

Longitude: *-83.888588*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *138 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *6 in.*

Casing Length: 1: *17 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *12/15/1955*

Total Depth: *138 ft.*

Driller's Name: *BARNES NEVIN*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *115 ft.*

Test Rate: *30 gpm*

[Associated Reports](#)

Drawdown: *4 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
SOIL	0	2
CLAY	2	5
LIMESTONE	5	50
LIMESTONE	50	60
LIMESTONE	60	80
LIMESTONE	80	100
LIMESTONE	100	110
LIMESTONE	110	138

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2046849

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ANTIOCH COLLEGE*

County: *GREENE*

Township: *MIAMI*

Address: *MARSHAL ST*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.7961*

Longitude: *-83.887*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *6 in.*

Borehole Depth: 1: *310 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1:

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground: *0*

Aquifer Type: *LIMESTONE*

Date of Completion: *10/28/2013*

Total Depth:

Well Use: *HTG/COOLING*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *400/1000*

Method of Installation: *Pumped w/Tremie pipe*

Placed FROM: *305 ft.*

WELL TEST DETAILS

Static Water Level:

Test Rate:

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
GRAY LIMESTONE	8	130
GRAY SHALE	130	310

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 909834

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *JEAN LOPEZ*

County: *GREENE*

Address: *1635 SPILAN DR*

City:

Location Number:

Latitude: *39.786950*

Township: *MIAMI*

State: *OH*

Location Map Year:

Longitude: *-83.8954*

Section Number:

Lot Number:

Zip Code: *45387*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.5 in.*

2:

Borehole Depth: 1: *25 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *25 ft.*

2:

Casing Thickness: 1: *0.316 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *6/2/2000*

Driller's Name: *JENKINS PUMP SALES & SERV.*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *SHALE*

Total Depth: *141 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use: *DOMESTIC*

Screen Length:

WELL TEST DETAILS

Static Water Level: *109 ft.*

Drawdown: *1 ft.*

Test Rate: *9 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	17
BROWN LIMESTONE	17	45
WHITE LIMESTONE	45	55
GRAY LIMESTONE	55	90
GREEN LIMESTONE	90	125
GREEN SHALE	125	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 257612

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HOWARD KAHOE

County: GREENE

Township: MIAMI

Section Number:

Address: SPELLANHYDE RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 49

Location Map Year: 1989

Location Area:

Latitude: 39.784154

Longitude: -83.895391

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 59 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 17 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 8/17/1961

Total Depth: 59 ft.

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 39 ft.

Test Duration: 0.5 hrs.

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	16
LIMESTONE	16	30
LIMESTONE & SHALE	30	53
BLUE SHALE	53	59

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 9929072

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ORIGINAL OWNER AND LOCATION

Original Owner Name: MORRIS BEAN CO.#3

County: GREENE

Township: MIAMI

Section Number: 24

Address:

Lot Number:

City:

State: OH

Zip Code:

Location Number: 174

Location Map Year: 1945

Location Area:

Latitude: 39.778505

Longitude: -83.895571

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 103 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1:

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 9/1/1949

Total Depth: 103 ft.

Driller's Name: LAYNE-OHIO, COLS

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	19
BLUE CLAY	19	25
SHALE	25	38
GRAY LIMESTONE	38	45
LIMESTONE	45	74
CREVICE	74	79
FINE SHALE	79	79
SHALE	79	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 267824

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: VILLAGE OF YELLOW SP

County: GREENE

Township: MIAMI

Section Number:

Address: JACOBY RD

Lot Number:

City:

State: OH

Zip Code:

Location Number: 45

Location Map Year: 1989

Location Area:

Latitude: 39.768994

Longitude: -83.897492

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 114 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1:

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 7/23/1962

Total Depth: 114 ft.

Driller's Name: MOODY'S OF DAYTON, INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate:

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
GRAVEL	2	22
TILL	22	40
CLAY	40	60
TILL	60	96
SHALE	96	114

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 769947

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL SAMPSON

County: GREENE

Township: XENIA

Section Number:

Address: 736 JACOBY RD

Lot Number:

City:

State: OH

Zip Code: 45385

Location Number:

Location Map Year:

Location Area:

Latitude: 39.762406

Longitude: -83.899165

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 130 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use: DOMESTIC

Date of Completion: 8/1/1994

Total Depth: 130 ft.

Driller's Name: DARBYS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 55 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 3 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
SAND & GRAVEL	10	25
LIMESTONE	25	85
SHALE	85	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 875835

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN D. KYLE

County: GREENE

Address: 2490 CLARK RUN RD

City:

Location Number:

Latitude: 39.757070

Township: XENIA

State: OH

Location Map Year:

Longitude: -83.89723

Section Number:

Lot Number:

Zip Code: 45385

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 5.5 in.

2:

Borehole Depth: 1: 115 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 73 ft.

2:

Casing Thickness: 1: 0.188 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/1/2001

Driller's Name: DARBYS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 115 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 70 ft.

Drawdown: 2 ft.

Test Rate: 10 gpm

Test Duration: 3 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
SAND & GRAVEL	0	10 -
SAND & CLAY	10	31
SAND & GRAVEL	31	38 -
SAND & CLAY	38	70
LIMESTONE	70	85
SHALE	85	115

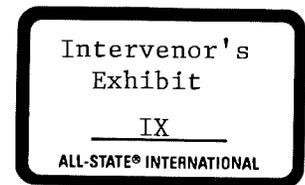
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To: "Wayne.Jones@dnr.state.oh.us" <Wayne.Jones@dnr.state.oh.us>
From: "Kelly.Barrett@dnr.state.oh.us" <Kelly.Barrett@dnr.state.oh.us>
Subject: RE: Response to our comment letter from Eagon & Assoc.
Date: 2016-11-21 10:38:06 -0500



Thanks Wayne. I agree that the responses are satisfactory. An approval letter will go out today or tomorrow.

Happy Thanksgiving to you too! I'll be here today through Wednesday.

Kelly Barrett, Geologist
Division of Mineral Resources Management
Ohio Department of Natural Resources
2045 Morse Road, Bldg. H-2
Columbus, OH 43229-6693
Phone (614) 265-6502
Fax (614) 265-7999

-----Original Message-----

From: Jones, Wayne
Sent: Monday, November 21, 2016 7:12 AM
To: Barrett, Kelly
Subject: RE: Response to our comment letter from Eagon & Assoc.

Good Morning Kelly,

I am satisfied with the responses and explanations. The riverbed conductance and drain conductance explanations were clear and well thought out.

I am in Monday-Wednesday and for a little early on Friday. If I don't talk to you before "Happy Thanksgiving".

Wayne

A.Wayne Jones
Hydrogeologist
Ohio Department of Natural Resources
Division of Soil and Water Resources
2045 Morse Rd. B-2
Columbus, Ohio 43229-6693
Phone: (614) 265-1075
Email: Wayne.jones@dnr.state.oh.us
Website: www.dnr.state.oh.us

-----Original Message-----

From: Barrett, Kelly
Sent: Friday, November 18, 2016 12:57 PM
To: Jones, Wayne
Subject: Response to our comment letter from Eagon & Assoc.

Wayne,

The scanned letter is the response from Eagon & Associates to our comment letter for IM-340 Enon Sand & Gravel.

Have a good weekend!

Kelly Barrett, Geologist
Division of Mineral Resources Management Ohio Department of Natural Resources
2045 Morse Road, Bldg. H-2
Columbus, OH 43229-6693
Phone (614) 265-6502
Fax (614) 265-7999

-----Original Message-----

From: DMRM.ITRequests@dnr.state.oh.us [mailto:DMRM.ITRequests@dnr.state.oh.us]
Sent: Friday, November 18, 2016 12:31 PM
To: Barrett, Kelly
Subject: Scanned from a Xerox Multifunction Printer

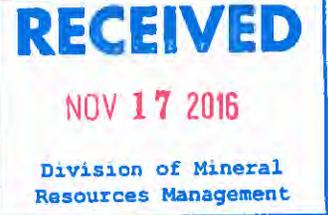
Please open the attached document. It was scanned and sent to you using a Xerox Multifunction Printer.

Attachment File Type: pdf, Multi-Page

Multifunction Printer Location: Building H-2
Device Name: NR744XR7835H2

November 16, 2016

Ms. Kelly Barrett
Ohio Department of Natural Resources
Division of Mineral Resources Management
2045 Morse Road, Building H-2
Columbus, Ohio 43229-6693



**RE: Enon Sand & Gravel, LLC
Responses to Ohio Department of Natural Resources Comments dated
November 8, 2016 Regarding Hydrology Model Review for Industrial
Minerals Mining Permit Application IM-340**

Dear Ms. Barrett:

The following are responses to your comments dated November 8, 2016 relative to hydrology model review for Industrial Minerals mining permit application to add dewatering to IM-340, Enon Sand & Gravel, LLC.

ODNR

Comment 1. Please provide the sump elevation of each Phase.

Response 1. The sumps will be approximately 10 feet deep. The elevation of the bottom of the sump for Phase I will be about 836 feet. The elevation of the bottom of the sump for Phase II will be about 826 feet.

ODNR

Comment 2. Confirm that all water withdrawal facilities within the model domain are included in the report and are located on a map.

Response 2. All significant water withdrawal facilities withdrawing groundwater within the model domain are located on Plate 1. Facilities withdrawing surface water only are not included, as they have no effect on groundwater levels. Enon Sand & Gravel is registered as a groundwater withdrawal facility, but only utilizes surface water and was not included in the model or on Plate 1. Other registered groundwater withdrawal facilities within the model area are the public water supplies operated by the Village of Enon and the Village of Yellow Springs. Pumpage from those two facilities is discussed in the report and included in the model.

ODNR

Comment 3. Indicate if any change was made to river parameters or river conductance during calibration.

Response 3. Riverbed hydraulic conductivities were varied during model calibration simulations. Referenced riverbed hydraulic conductivities for the Mad River range from 3.1 gallons per day per foot squared (gpd/ft²) to over 130 gpd/ft². The Mad River was initially assigned a hydraulic conductivity value of 3.1 gpd/ft². Higher values were used during calibration simulations, but the final value of 3.3 gpd/ft² is only a little higher than the starting value.

Referenced values for the little Miami River range from 3.5 to 80 gpd/ft², but these values were from testing done near Milford, Ohio which is about 30 miles downstream of the model area and the Little Miami Valley near Milford has considerably more sand and gravel than it does within the model area. In fact, the Little Miami River runs on bedrock throughout the eastern part of the model area. The riverbed hydraulic conductivity initially assigned to the Little Miami River nodes was 1.0 gpd/ft², but was decreased to 0.5 gpd/ft² during model calibration. Use of a higher hydraulic conductivity in the downstream part of the river within the model area was attempted, but the uniform hydraulic conductivity resulted in better calibration of model heads.

Other streams throughout the model area were initially assigned a riverbed hydraulic conductivity of 1.0 gpd/ft², based on values we have used in other quarry dewatering models, but the lower value of 0.5 gpd/ft² provided the best calibration. Values greater than 1.0 gpd/ft² were used for Mud Run northwest of the Phase II quarry area during calibration simulations, however, aquifer hydraulic conductivity turned out to be the most significant factor controlling heads in that area.

Some streams reaches were extended into the central part of the model area to try and achieve better calibration to heads in the upland areas. Initial heads were generally too low in these areas and the streams did not contribute enough water in these areas to cause a significant change in the heads. Recharge from precipitation was determined to be a more significant factor relating to calibration to heads in the upland areas. Stream widths were not altered during model simulations.

ODNR

Comment 4. Provide the drain conductance value that "was set high enough so that only head difference and hydraulic conductivity control the flow of water into the drain nodes."

Response 4. Drain conductance values for Phases I and II and each model layer are listed on the following table.

Model Layer	Phase I	Phase II
1	1x10 ⁷ ft ² /day	1x10 ⁵ ft ² /day
2	1x10 ⁷ ft ² /day	2.8x10 ³ ft ² /day
3	1x10 ⁵ ft ² /day	1x10 ⁶ ft ² /day

Ms. Kelly Barrett
November 16, 2016
Page 3



These conductance values are based on the dimensions of each drain node (100 feet by 100 feet) and a drain thickness of one foot multiplied by the hydraulic conductivity assigned to the drain. The resulting conductance terms are all several orders of magnitude greater than the hydraulic conductivity of the nodes adjacent to the quarry phases. Drain values were adjusted during simulations. Increasing the conductance of the drain nodes from the values shown above did not affect drawdown around the quarry areas but did affect the model error (i.e., mass balance). The values used minimized the model error and are high enough so that only head difference and hydraulic conductivity of the simulated aquifer materials control the flow of water into the drain nodes and subsequently the drawdown around the quarry areas.

Please call me if you have questions or need additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen J. Champa".

Stephen J. Champa, PG
Senior Hydrogeologist

SJC/kj
encl.

cc: Cory Kiser, Melvin Stone Company
Dave Crow, ODNR – DMRM
Tyson Lamielle, ODNR – DMRM
Mike Mitchell, ODNR – DMRM



100 Old Wilson Bridge Road
Suite 115
Worthington, Ohio 43085
(614) 888-5760
eagoninc.com

June 12, 2017

Ms. Kelly Barrett
Ohio Department of Natural Resources
Division of Mineral Resources Management
2045 Morse Road
Building H-2
Columbus, Ohio 43229

Dear Ms. Barrett:

The following responses to your questions regarding the Enon Sand & Gravel Quarry model and residential well mitigation are provided on behalf of Enon Sand & Gravel.

Question 1. The report indicates recharge values for the carbonate aquifer ranged from four to seven inches per year in the ODNR Ground Water Pollution Potential of Clark County, Ohio report, and an initial uniform value of two inches per year was assigned to the model. The model recharge distribution map in Figure 9 shows the final calibrated value for the western portion of the carbonate aquifer is 0.5 inches per year. Please explain why the recharge value was reduced to 0.5 inches per year.

Response 1. The Ohio Department of Natural Resources Division of Water maps Ground-Water Resources of Clark County (Schmidt, 1982) and Ground Water Resources of Greene County (Schmidt, 1991) delineate different areas of groundwater production potential within the respective counties. These delineated areas were the basis for the boundaries used to define the different zones of hydraulic conductivity and recharge used in the groundwater flow model. Actual recharge and hydraulic conductivity values were determined during model calibration. The 0.5 inch per year zone of recharge shown on Figure 9 includes three areas from the groundwater resources maps that are indicated to have a groundwater production potential ranging from less than three to 20 gallons per minute (gpm). The generally eastern area of the model corresponds to areas of the groundwater resources map that are indicated to have a groundwater production potential of between 75 and 100 gpm and was modeled using higher values of recharge and hydraulic conductivity. Areas of lower modeled recharge are also areas of steeper topography, i.e., areas of higher runoff and less groundwater recharge.

Question 2. Figures 10 and 11 in the report show a final calibrated hydraulic conductivity value of 7.5 gpd/ft^2 assigned to the western portion of the carbonate aquifer. Please explain why this lower value was used.

Response 2. The areas on Figures 10 and 11 assigned a hydraulic conductivity of 7.5 gpd/ft^2 correspond to areas of lower groundwater production potential based on the

groundwater resources mapping referenced in the answer to Question 1. These areas also correspond to thinning of the carbonate aquifer which results in a lower aquifer transmissivity which is simulated in the model using the lower hydraulic conductivity. The hydraulic conductivity value of 7.5 gpd/ft² was determined during model calibration and resulted in the best comparison between observed and modeled heads.

Question 3. Please describe in more detail what the alternative water supply for wells located close to the proposed mined area will be. The quarry floor elevation contours shown in Figure 2 appear to be at or near the top elevation of the Ordovician Elkhorn Formation when compared with the top elevation of the Elkhorn listed on the Site Test Boring Logs in Appendix B. The Elkhorn Formation is considered a poor aquifer. Will the entire carbonate sequence be mined at the quarry? Will some of the carbonate material not be mined? Please explain what formation will be used as a suitable replacement water supply.

Response 3. *Mining is planned to extend to the base of the carbonate aquifer. Dewatering to that elevation will only occur within the quarry excavation. Groundwater levels outside of the quarry will be above the base of the carbonate aquifer. Dewatering of the quarry will not completely dewater the aquifer. Groundwater flow model results (Plates 12 and 13) show that the cone-of-depression from quarry dewatering is relatively steep around the quarry phases.*

Enon Sand & Gravel understands that it has an obligation to mitigate residential well problems that are a result of quarry dewatering. Mitigation measures include lowering pumps and deepening or replacing wells. Water treatment equipment will be used to if necessary to address groundwater quality issues that could arise.

The amount of aquifer saturation that will remain in the carbonate aquifer at the full extent of quarry dewatering was evaluated using the groundwater flow model results. GIS mapping for Clark County was used to determine likely locations for replacement wells at residences closest to the quarry areas. Based on Ohio Department of Health regulations, a residential well can be installed no closer than 10 feet to a property boundary.

The closest residence to the Phase I quarry area is near the southwest corner of the quarry area along Garrison Road. At the full extent of quarry dewatering there would be approximately 51 feet of saturation in the aquifer at this location. Other locations along Garrison Road and Fairfield Pike were also examined and end-stage aquifer saturation at those locations ranged from about 32 to 37 feet.

Evaluation also was made of the remaining saturation to be expected at closest residences to the Phase II quarry area. On the west side of the Phase II area at the closest residences in the Echo Hills subdivision and along Hagan Road the remaining amount of saturation was between 21 and 26 feet. On the east side of

Ms. Kelly Barrett
June 12, 2017
Page 3

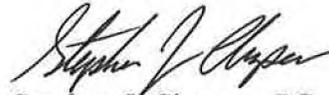
the Phase II area along Tecumseh Road the remaining amount of saturation at the closest residences was over 42 feet.

The amount of saturation remaining in the aquifer will be greater at other locations as compared to those described above and will be adequate at all locations to support replacement or deepening of wells.

The purpose of the groundwater monitoring network, described on page 12, is to provide actual data illustrating the amount and rate of groundwater level change. These data can be used by the quarry owner/operator to continually assess the vulnerability of wells and the potential cost of well mitigation. The quarry owner/operator always has the option of stopping mining at an elevation above the permitted floor elevation.

If you require any additional information or have additional questions, please contact me or Mr. Cory Kiser.

Sincerely,



Stephen J. Champa, PG
Senior Hydrogeologist

SJC/kj

cc: Cory Kiser, Melvin Stone Company

Intervenor's
Exhibit

XIX

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APPENDIX C.
COPIES OF ODNR WELL LOGS



Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 32257

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM HUFFMAN

County: CLARK

Address:

City:

Location Number: 256

Latitude: 39.831752

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.879214

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 44 ft.

2:

Depth to Bedrock:

Casing Diameter: 1:

2:

Casing Length: 1:

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/25/1948

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 44 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 36 ft.

Drawdown: 4 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	4
SAND & GRAVEL	4	15
GRAY LIMESTONE	15	35
BLUE LIMESTONE	35	44

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33526

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOSEPH DILLBERRY

County: CLARK

Address: MILL RD

City:

Location Number: 311

Latitude: 39.877684

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.880696

Section Number: 17

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 40 ft.

2:

Depth to Bedrock:

Casing Diameter: 1:

2:

Casing Length: 1:

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/17/1948

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 40 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown: 10 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	40
WATER AT		40

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33534

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUS DIMITROFF
County: CLARK
Address: SPRINGFIELD-XENIA USRT
City:

Township: MADRIVER
State: OH
Location Map Year: 1945
Longitude: -83.8651

Section Number: 16
Lot Number:
Zip Code:
Location Area:

Location Number: 296
Latitude: 39.839133

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 47 ft.
2:

Depth to Bedrock:

Casing Diameter: 1:
2:

Casing Length: 1:
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:
Date of Completion: 7/31/1948

Aquifer Type: LIMESTONE
Total Depth: 47 ft.

Well Use:

Driller's Name:
Screen Diameter:
Type:

Slot Size:
Material:

Screen Length:

Set Between:
Gravel Pack Material/Size:
Method of Installation:
Grout Material/Size:
Method of Installation:

Vol/Wt Used:
Placed:
Vol/Wt Used:
Placed

WELL TEST DETAILS

Static Water Level: 7 ft.
Drawdown: 6 ft.

Test Rate: 15 gpm
Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
SAND	18	23
CLAY	23	30
LIMESTONE	30	47
WATER AT		47

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 33546

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CLARENCE GRUBE

County: CLARK

Township: MADRIVER

Address: TECUMSEH RD

City:

State: OH

Location Number: 20

Location Map Year: 1966

Latitude: 39.875207

Longitude: -83.891424

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 49 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.19 in.

Casing Length: 1: 37 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 9/18/1948

Total Depth: 49 ft.

Well Use:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 19 ft.

Test Rate: 8 gpm

Associated Reports

Drawdown: 7 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	20
SAND	20	37
LIMESTONE	37	49

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 44454

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHARLES MCQUAY

County: CLARK

Address: CATAWBA RIDGE RD

City:

Location Number: 633

Latitude: 39.846782

Township: GREEN

State: OH

Location Map Year: 1945

Longitude: -83.861882

Section Number: 11

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 61 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 10/1/1949

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 3 ft.

Aquifer Type: LIMESTONE & ROCK

Total Depth: 61 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	30
LIMESTONE & ROCK	30	61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 48693

ORIGINAL OWNER AND LOCATION

Original Owner Name: G DIMITROFF

County: CLARK

Address: SPRINGFIELD-XENIA USRT

City:

Location Number: 494

Latitude: 39.838264

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.865324

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 45 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/22/1949

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 45 ft.

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 5 ft.

Drawdown: 12 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	27
LIMESTONE	27	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 58217

ORIGINAL OWNER AND LOCATION

Original Owner Name: RALPH HOWELL

County: CLARK

Address:

City:

Location Number: 546

Latitude: 39.856246

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.873859

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 36 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 16 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 1/19/1951

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 4 ft.

Aquifer Type: LIMESTONE

Total Depth: 36 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	5
SANDY GRAVEL	5	16
GRAY LIMESTONE	16	36

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63761

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HENSON

County: CLARK

Address: FAIRFIELD PIKE

City:

Location Number: 998

Latitude: 39.862695

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.87166

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 39 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.

2:

Casing Length: 1: 17 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/10/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 2 ft.

Drawdown: 24 ft.

Aquifer Type: LIMESTONE

Total Depth: 39 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

COMMENTS:

Associated Reports

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	39
WATER AT		39

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63771

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KYLE GERHARDT*

County: *CLARK*

Address: *MILL RD*

City:

Location Number: *590*

Latitude: *39.875068*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1945*

Longitude: *-83.879518*

Section Number: *13*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *64 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *4.25 in.*

2:

Casing Length: 1: *21 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *4/20/1951*

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *64 ft.*

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *12 ft.*

Drawdown: *30 ft.*

Test Rate: *7 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
LIMESTONE	8	64

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 63773

ORIGINAL OWNER AND LOCATION

Original Owner Name: RHORNELL

County: CLARK

Address: CATAWBA RIDGE RD

City:

Location Number: 592

Latitude: 39.842005

Township: GREEN

State: OH

Location Map Year: 1945

Longitude: -83.862911

Section Number: 11

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 56 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 23 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/26/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown:

Aquifer Type: LIMESTONE

Total Depth: 56 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	23
LIMESTONE	23	56
WATER AT		56

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 63784

ORIGINAL OWNER AND LOCATION

Original Owner Name: J BURLISLE

County: CLARK

Address: JACKSON RD

City:

Location Number: 604

Latitude: 39.832718

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.870732

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 58 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 38 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/1/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 58 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 11 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	21
SAND & CLAY	21	38
LIMESTONE	38	58
WATER AT		58

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 63786

ORIGINAL OWNER AND LOCATION

Original Owner Name: R MILLER

County: CLARK

Address: SNYDERVILLE RD

City:

Location Number: 606

Latitude: 39.876479

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.893633

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 93 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.

2:

Casing Length: 1: 93 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/1/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SAND

Total Depth: 93 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 16 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
OLD WELL	0	40
CLAY	40	82
SAND	82	93
WATER AT		93

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63787

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: J KEIFER

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 607

Latitude: 39.844926

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.88918

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 74 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 62 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/28/1950

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 74 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown: 15 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL	0	10
SAND	10	40
CLAY	40	62
LIMESTONE	62	74
WATER AT		74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 63792

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *DON WEST*

County: *CLARK*

Address: *SNYDERVILLE RD*

City:

Location Number: *1044*

Latitude: *39.872128*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1945*

Longitude: *-83.879744*

Section Number: *19*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *78 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *19 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/1/1950*

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *78 ft.*

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *13 ft.*

Drawdown: *15 ft.*

Test Rate: *12 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	1
LIMESTONE	1	52
SHALE	52	70
LIMESTONE	70	78
WATER AT		78

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 65518

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HARRY BREWER

County: CLARK

Address: SNYDERVILLE RD

City:

Location Number: 478

Latitude: 39.870612

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.917656

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 86 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 86 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/12/1949

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown:

COMMENTS:

Aquifer Type: LIMESTONE

Total Depth: 86 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

Test Rate: 11 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
RED CLAY	0	6
COARSE SAND & ROCK	6	18
FINE SAND	18	48
HARDPAN	48	54
MIXED SAND	54	57
WHITE LIMESTONE	57	86

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 86161

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM STREULING

County: CLARK

Address: MILL RD

City:

Location Number: 1043

Latitude: 39.872363

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.878384

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 103 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/1/1951

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 103 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 14 ft.

Drawdown: 80 ft.

Test Rate: 4 gpm

Test Duration: 2 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	52
SHALE	52	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 86199

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ORIGINAL OWNER AND LOCATION

Original Owner Name: HENRY IHRIG

County: CLARK

Address: MILL RD

City:

Location Number: 962

Latitude: 39.876295

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.879542

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 67 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.

2:

Casing Length: 1: 18 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/1/1951

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 67 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 14 ft.

Drawdown: 22 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
LIMESTONE	16	52
SHALE	52	67

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 87754

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ORIGINAL OWNER AND LOCATION

Original Owner Name: C MAST

County: CLARK

Address:

City:

Location Number: 769

Latitude: 39.872107

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.888941

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 50 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 4.25 in.

Casing Length: 1: 31 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 9/1/1950

Total Depth: 50 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 6 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	18
SAND & GRAVEL	18	22
SAND & CLAY	22	30
LIMESTONE	30	50
WATER AT		50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 87755

ORIGINAL OWNER AND LOCATION

Original Owner Name: A MCCOUN

County: CLARK

Address: JACKSON RD

City:

Location Number: 770

Latitude: 39.840243

Township: MADRIVER

State: OH

Location Map Year: 1945

Longitude: -83.865363

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 50 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 42 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 6 ft.

Aquifer Type: LIMESTONE

Total Depth: 50 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
SAND	15	21
BLUE CLAY	21	40
SAND & GRAVEL	40	42
LIMESTONE	42	50

Associated Reports

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 87811

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRISTOPHER ROBERTS

County: CLARK

Township: MADRIVER

Address: OLD MILL RD

City:

State: OH

Location Number: 815

Location Map Year: 1945

Latitude: 39.871486

Longitude: -83.878424

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 65 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 10 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion: 11/1/1951

Total Depth: 65 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 3 gpm

[Associated Reports](#)

Drawdown: 30 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	65
BLUE SHALE	65	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 100170

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *WEVANS*

County: *CLARK*

Address: *OLD MILL RD*

City:

Location Number: *6*

Latitude: *39.869358*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1966*

Longitude: *-83.879456*

Section Number: *13*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *120 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *4.25 in.*

Casing Length: 1: *52 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion:

Total Depth: *120 ft.*

Well Use:

Driller's Name: *DRILLER UNKNOWN*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *90 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
LIMESTONE	0	52
SHALE	52	86
LIMESTONE	86	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 100180

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: L VALLEY

County: CLARK

Address: REBERT PI

City:

Location Number: 23

Latitude: 39.873671

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.887192

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 45 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 21 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion:

Total Depth: 45 ft.

Well Use:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 19 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 9 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	21
LIMESTONE	21	45
WATER AT		45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 109446

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN KING

County: CLARK

Address: FOWLER RD

City:

Location Number: 131

Latitude: 39.869044

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917833

Section Number: 30

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 95 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1:

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 10/24/1953

Driller's Name: LOTT'S A E & SON

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level:

Drawdown:

COMMENTS:

Aquifer Type: SHALE

Total Depth: 95 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Test Rate: 20 gpm

Test Duration:

Associated Reports

WELL LOG

Formations	From	To
TOP SOIL	0	10
GRAVEL	10	30
SANDY LOAM	30	45
SHALE	45	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 127199

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: REX MILLER

County: CLARK

Address: FAIRFIELD PIKE RD

City:

Location Number: 178

Latitude: 39.846189

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.90404

Section Number: 29

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 78 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 4.25 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/17/1954

Driller's Name: CRABTREE WELL AND PUMP

Aquifer Type: LIMESTONE

Total Depth: 78 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 5 ft.

Test Rate: 6 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
LIMESTONE	3	54
SHALE	54	66
PINK LIMESTONE	66	78

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 127325

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN CRISPIN

County: CLARK

Address: REBERT PI

City:

Location Number: 26

Latitude: 39.877445

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.881893

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 48 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 22 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 48 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 13 ft.

Drawdown: 25 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	20
LIMESTONE	20	48
WATER AT		48

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 127346

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ORIGINAL OWNER AND LOCATION

Original Owner Name: L VALLEY

County: CLARK

Address: REBERT PI

City:

Location Number: 24

Latitude: 39.870780

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.892055

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 61 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 19 ft.

Drawdown: 25 ft.

Aquifer Type: LIMESTONE

Total Depth: 61 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	25
UNKNOWN	0	31
LIMESTONE	31	61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 131075

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *D RUEGER*
 County: *CLARK*
 Address: *OLD MILL RD*

Township: *MADRIVER*

Section Number: *13*

City:
 Location Number: *7*
 Latitude: *39.870564*

State: *OH*
 Location Map Year: *1966*
 Longitude: *-83.880328*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: *129 ft.*
 2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
 2:

Casing Length: 1: *19 ft.*
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:
 Date of Completion:

Aquifer Type: *LIMESTONE*
 Total Depth: *129 ft.*

Well Use:

Driller's Name: *DRILLER UNKNOWN*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *99 ft.*

Test Rate: *10 gpm*

Associated Reports

Drawdown: *5 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	52
GRAY SHALE	52	65
LIMESTONE	65	80
RED LIMESTONE	80	110
WHITE LIMESTONE	110	129

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 137376

ORIGINAL OWNER AND LOCATION

Original Owner Name: ENON HIGH SCHOOL

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 136

Latitude: 39.870253

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.891741

[View Image of Original Well Log](#)

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 163 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 8 in.

2:

Casing Length: 1: 32 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/20/1954

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 163 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 44 ft.

Drawdown: 33 ft.

Test Rate: 130 gpm

Test Duration: 5 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
UNKNOWN	0	21
GRAVEL & CLAY	21	28
BROWN LIMESTONE	28	85
GRAY LIMESTONE	85	102
GRAY SOFT LIMESTONE	102	118
GRAY HARD LIMESTONE	118	163

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 139481

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ALBERT HAVIK
 County: CLARK
 Address: REBERT PI
 City:

Township: MADRIVER
 State: OH
 Location Map Year: 1966
 Longitude: -83.88441

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

Location Number: 31
 Latitude: 39.876436

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:
 Casing Diameter: 1: 5.63 in.
 2:

Borehole Depth: 1: 34 ft.
 2:
 Casing Length: 1: 21 ft.
 2:

Depth to Bedrock:
 Casing Thickness: 1:
 2:

Casing Height Above Ground:
 Date of Completion: 6/30/1958
 Driller's Name: DRILLER UNKNOWN

Aquifer Type: LIMESTONE & ROCK
 Total Depth: 34 ft.

Well Use:
 Screen Length:

Screen Diameter:
 Type:
 Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Slot Size:
 Material:
 Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 10 ft.
 Drawdown: 20 ft.

Test Rate: 8 gpm
 Test Duration: 0.5 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	5
RED SAND & CLAY	5	15
SAND	15	21
LIMESTONE & ROCK	21	34
WATER AT		34

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 139482

ORIGINAL OWNER AND LOCATION

Original Owner Name: ALBERT HAVIK
 County: CLARK
 Address: REBERT PI
 City:

Township: MADRIVER

Section Number:

Lot Number:

Zip Code:

Location Area:

Location Number: 31.02

State: OH

Location Map Year: 1966

Latitude: 39.876436

Longitude: -83.88441

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 35 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
 2:

Casing Length: 1: 21 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE & ROCK

Date of Completion: 6/30/1958

Total Depth: 35 ft.

Well Use:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Test Rate: 8 gpm

Associated Reports

Drawdown: 20 ft.

Test Duration: 0.5 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	5
RED CLAY	5	10
SAND	10	15
LIMESTONE & ROCK	15	21
UNKNOWN	0	40
WATER AT		35

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 139490

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GAYLORD BARNHEART

County: CLARK

Township: MADRIVER

Address: GORDON HILL RD

City:

State: OH

Location Number: 180

Location Map Year: 1980

Latitude: 39.853831

Longitude: -83.887569

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 119 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 110 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: ROCK

Date of Completion: 4/18/1959

Total Depth: 119 ft.

Well Use:

Driller's Name: MILLER GLENN CONSULTING GEOLOGIST

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level:

Test Rate: 12 gpm

Associated Reports

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
SAND & GRAVEL	3	25
HARDPAN	25	110
LIMESTONE	110	119
ROCK	119	119
WATER AT		119

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 150507

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *GEORGE WALTERS*

County: *CLARK*

Address: *FAIRFIELD PIKE RD*

City:

Location Number: *182*

Latitude: *39.853069*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.886339*

Section Number: *23*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *108 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *103 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion:

Total Depth: *108 ft.*

Well Use:

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *78 ft.*

Test Rate: *12 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
SOIL	0	5
CLAY	5	11
GRAVEL	11	21
HARDPAN	21	51
GRAVEL	51	57
HARDPAN	57	61
GRAVEL	61	68
HARDPAN	68	94
UNKNOWN	0	97
GRAVEL	97	103
LIMESTONE	103	108

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 150543

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WOODROW DEMMY

County: CLARK

Township: MADRIVER

Address: FAIRFIELD PIKE RD

City:

State: OH

Location Number: 179

Location Map Year: 1980

Latitude: 39.849962

Longitude: -83.899257

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 49 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1:

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion:

Total Depth: 49 ft.

Well Use:

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 8 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown: 8 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
HARDPAN	0	24
LIMESTONE	24	49
UNKNOWN	0	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 150548

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN CRISPIN

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 18

Latitude: 39.864501

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.890589

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 74 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 21 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: DRILLER UNKNOWN

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 74 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 54 ft.

Drawdown:

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
SAND	14	18
CLAY	18	20
UNKNOWN	0	52
LIMESTONE	52	52
SHALE & SANDSTONE	52	68
LIMESTONE	68	74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 174168

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES CORNELIUS

County: CLARK

Address: FAIRFIELD PIKE PI

City:

Location Number: 156

Latitude: 39.862713

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.871325

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 44 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 19 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 44 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 6 ft.

Drawdown: 14 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
LIMESTONE	14	44

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 174189

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROCKY POINT CHURCH*

County: *CLARK*

Township: *MADRIVER*

Section Number: *13*

Address: *OLD MILL RD.*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number: *4*

Location Map Year: *1966*

Location Area:

Latitude: *39.871220*

Longitude: *-83.879168*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *130 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *22 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion:

Total Depth: *130 ft.*

Well Use:

Driller's Name: *DRILLER UNKNOWN*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *103 ft.*

Test Rate: *15 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	57
SHALE	57	83
LIMESTONE	83	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 204026

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *H HUFMAN*

County: *CLARK*

Address:

City:

Location Number: *173*

Latitude: *39.848138*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.919841*

Section Number: *29*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *65 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *65 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *SAND*

Date of Completion: *6/29/1959*

Total Depth: *65 ft.*

Well Use:

Driller's Name: *HUGHES WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *25 ft.*

Test Rate: *9 gpm*

[Associated Reports](#)

Drawdown: *25 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	8
GRAVEL	8	37
SAND	37	45
HARDPAN	45	62
HEAVY SAND	62	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 204027

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBT MCCLURE*

County: *CLARK*

Address: *HAGEN/REBERT RD*

City:

Location Number: *132*

Latitude: *39.862614*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.908162*

Section Number: *30*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *62 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *20 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *7/8/1959*

Total Depth: *62 ft.*

Well Use:

Driller's Name: *HUGHES WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *30 ft.*

Test Rate: *7 gpm*

Associated Reports

Drawdown: *20 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	6
GRAVEL & CLAY	6	15
SOFT ROCK	15	17
LIMESTONE	17	30
SHALE	30	55
LIMESTONE	55	55
WHITE LIMESTONE	55	62
WATER AT		30
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 246567

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ELMER JORDON*

County: *CLARK*

Address: *OLD MILL RD*

City:

Location Number: *124*

Latitude: *39.880325*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.878935*

Section Number: *13*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *53 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *18 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *53 ft.*

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *18 ft.*

Drawdown: *10 ft.*

Test Rate: *6 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	53

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 257613

ORIGINAL OWNER AND LOCATION

Original Owner Name: TED BOLE

County: CLARK

Address: HUSTEAD RD

City:

Location Number: 190

Latitude: 39.840293

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.869615

Section Number: 17

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 38 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 39 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/15/1961

Driller's Name: HUGHES WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown: 18 ft.

Aquifer Type: SAND

Total Depth: 38 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	9
SAND	9	15
BLUE CLAY	15	18
SAND	18	35
COARSE SAND	35	38

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 257636

ORIGINAL OWNER AND LOCATION

Original Owner Name: *NORMAN REINDAHL*

County: *CLARK*

Address: *REBERT PI*

City:

Location Number: *17*

Latitude: *39.866501*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1966*

Longitude: *-83.8986*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *58 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *23 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *6/29/1963*

Total Depth: *58 ft.*

Well Use:

Driller's Name: *HUGHES WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *25 ft.*

Test Rate: *12 gpm*

Associated Reports

Drawdown: *25 ft.*

Test Duration: *4 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	10
GRAVEL	10	14
BLUE CLAY	14	21
LIMESTONE	21	58
WATER AT		57

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 271726

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MAD RIVER-GREEN LOCA

County: CLARK

Township: MADRIVER

Section Number: 23

Address: HUSTED RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.841917

Longitude: -83.885323

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 171 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 8 in.

Casing Length: 1: 32 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 12/30/1990

Total Depth: 171 ft.

Well Use: PUBLIC/SEMI-PUB

Driller's Name: SPROWLS DRILLING CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 130 ft.

Test Rate: 500 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	32
LIMESTONE	32	100
SHALE	100	120
WHITE LIMESTONE	120	135
SHALE	135	137
WHITE LIMESTONE	137	170
WATER AT		170

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 273518

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MARVIN BLOSSER*

County: *CLARK*

Address: *TECUMSEH RD S*

City:

Location Number: 29

Latitude: 39.863089

Township: *MADRIVER*

State: *OH*

Location Map Year: 1966

Longitude: -83.889303

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *104 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *17 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *1/31/1962*

Total Depth: *104 ft.*

Well Use:

Driller's Name: *LOWER EDWARD H*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *87 ft.*

Test Rate: *16 gpm*

Associated Reports

Drawdown:

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	10
SAND & GRAVEL	10	15
HARDPAN	15	17
LIMESTONE	17	104

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 273523

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *OTHEL WORKMAN*

County: *CLARK*

Address: *JACKSON RD*

City:

Location Number: *219*

Latitude: *39.831885*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.881836*

Section Number: *16*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *48 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *23 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *4/20/1962*

Driller's Name: *LOWER WELL DRILLING CO.*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *10 ft.*

Drawdown:

COMMENTS:

Aquifer Type: *CREVICE*

Total Depth: *48 ft.*

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Associated Reports

WELL LOG

Formations	From	To
BLACK CLAY	0	6
GRAVEL & CLAY	6	16
HARDPAN	16	23
WHITE LIMESTONE	23	48
BROWN CREVICE	48	49

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 309338

ORIGINAL OWNER AND LOCATION

Original Owner Name: SAYER JENKINS

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 11

Latitude: 39.858604

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.895684

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 75 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 10 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 10/10/1974

Driller's Name: RUBY, STAN WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 75 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

WELL TEST DETAILS

Static Water Level: 26 ft.

Drawdown: 15 ft.

Test Rate: 15 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	75
WATER AT		75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 311305

ORIGINAL OWNER AND LOCATION

Original Owner Name: *PILATE FYFFE*

County: *CLARK*

Address: *REBERT PI*

City:

Location Number: *116*

Latitude: *39.874756*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.887352*

Section Number: *19*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *41 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *34 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *3/21/1964*

Driller's Name: *RUBY, STAN WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *41 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

WELL TEST DETAILS

Static Water Level: *16 ft.*

Drawdown:

Test Rate: *20 gpm*

Test Duration: *1 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
CLAY & GRAVEL	6	16
HARDPAN	16	24
RED SAND	24	32
HARDPAN	32	34
WHITE LIMESTONE	34	41

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 311342

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MOSES DAVIS*

County: *CLARK*

Address: *3343 JACKSON RD*

City:

Location Number: 217

Latitude: 39.828803

Township: *MADRIVER*

State: *OH*

Location Map Year: 1980

Longitude: -83.880122

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 30 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 1/8/1965

Driller's Name: *RUBY, STAN WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

COMMENTS:

Aquifer Type: *LIMESTONE*

Total Depth: 30 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 40 gpm

Test Duration: 1 hrs.

Associated Reports

WELL LOG

Formations	From	To
BLACK CLAY	0	10
GRAVEL & CLAY	10	20
SAND & GRAVEL	20	27
BROWN LIMESTONE	27	30
GRAY LIMESTONE	30	31

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 326110

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TED BOLE*

County: *CLARK*

Address: *HUSTEAD RD*

City:

Location Number: *190*

Latitude: *39.840293*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.869615*

Section Number: *17*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *33 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *35 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *5/2/1969*

Driller's Name: *RUBY, STAN WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *SAND*

Total Depth: *33 ft.*

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *15 ft.*

Drawdown: *0.5 ft.*

Test Rate: *10 gpm*

Test Duration:

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	10
GRAVEL & CLAY	10	20
SAND	20	24
BLUE CLAY	24	30
COARSE SAND	30	33

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 329195

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE GORMAN

County: CLARK

Address: ENON CROSS RD

City:

Location Number: 13

Latitude: 39.868606

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.869379

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 69 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 14 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/30/1965

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 35 ft.

Aquifer Type: LIMESTONE

Total Depth: 69 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
LIMESTONE	14	69
WATER AT		69

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
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Well Log Number: 329200

ORIGINAL OWNER AND LOCATION

Original Owner Name: EMERSON KING

County: CLARK

Address: OLD MILL RD

City:

Location Number: 5

Latitude: 39.864477

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.881293

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 74 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 10 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 1/22/1966

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 74 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 10 ft.

Test Rate: 20 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	74
WATER AT		74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 335405

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT BOYSEL

County: CLARK

Township: MADRIVER

Address: 1615 RIDGEWAY

City:

State: OH

Location Number: 11

Location Map Year: 1980

Latitude: 39.877280

Longitude: -83.893959

Section Number: 15

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 113 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 78 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 6/4/1965

Total Depth: 113 ft.

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 78.5 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BLACK CLAY	0	20
GRAVEL	20	30
GRAY HARDPAN	30	70
FINE SAND	70	78
BROWN LIMESTONE	78	103
WHITE LIMESTONE	103	113
WATER AT		113

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
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Well Log Number: 337535

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM FLORA

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 19

Latitude: 39.863771

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.891775

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 110 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 110 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 57 ft.

Drawdown:

COMMENTS:

Test Rate: 17 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
YELLOW CLAY	0	18
LIMESTONE	18	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 349219

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *WL MOWERY*

County: *CLARK*

Address: *HUSTEAD RD*

City:

Location Number: *189*

Latitude: *39.840990*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.87178*

Section Number: *17*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *89 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *40 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *7/18/1966*

Total Depth: *89 ft.*

Driller's Name: *RUBY, STAN WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *16 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *20 ft.*

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	40
LIMESTONE	40	89
WATER AT		89

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
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Well Log Number: 357076

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT JESSUP

County: CLARK

Address: ROCKY POINT RD

City:

Location Number: 10

Latitude: 39.868817

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.885099

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 62 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/27/1967

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 62 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 26 ft.

Drawdown: 5 ft.

Test Rate: 9 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
LIMESTONE	8	62
WATER AT		62

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
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Well Log Number: 357081

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT JESSUP*

County: *CLARK*

Address: *ROCKY POINT RD*

City:

Location Number: *10*

Latitude: *39.868817*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1966*

Longitude: *-83.885099*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *61 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *26 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/24/1967*

Driller's Name: *RUBY, STAN WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *61 ft.*

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *24 ft.*

Drawdown:

Test Rate: *8 gpm*

Test Duration: *1 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	61
WATER AT		61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
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Well Log Number: 357306

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES SPITLOR

County: CLARK

Address: 3716 SNYDERVILLE RD

City:

Location Number: 102

Latitude: 39.873643

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.91749

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 50 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/16/1966

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: ROCK

Total Depth: 50 ft.

Well Use:

Slot Size:

Material:

Screen Length:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

COMMENTS:

Test Rate: 8 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
TOP SOIL	0	3
GRAVEL	3	19
BLUE CLAY	19	26
BLUE SHALE	26	48
GRAY ROCK	48	50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
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Well Log Number: 360938

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL PHILEPPS

County: CLARK

Address: 4667 BROADWAY RD

City:

Location Number: 100

Latitude: 39.876612

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.902335

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 105 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 56 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/9/1970

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 105 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 30 ft.

Test Rate: 60 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	35
HARDPAN	35	56
LIMESTONE	56	105
WATER AT		105

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 360945

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RANDALL SINK

County: CLARK

Address: 3559 TECUMSEH RD S

City:

Location Number: 114

Latitude: 39.873653

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.891428

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 45 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/30/1970

Driller's Name: RUBY, STAN WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 45 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 17 ft.

Drawdown: 10 ft.

Test Rate: 30 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	32
SAND	32	36
CLAY	36	40
LIMESTONE	40	45
WATER AT		45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
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Well Log Number: 373469

ORIGINAL OWNER AND LOCATION

Original Owner Name: LAYFORD GULLEY

County: CLARK

Address: 3130 FAIRFIELD PIKE PI

City:

Location Number: 155

Latitude: 39.862238

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.873671

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 63 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/26/1969

Driller's Name: HICKMAN CHARLES

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown: 20 ft.

Aquifer Type: LIMESTONE

Total Depth: 63 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
GRAVEL	11	15
LIMESTONE	15	63

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 376688

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *KERMITH ROBINETTE*

County: *CLARK*

Township: *MADRIVER*

Address: *3775 ROCKY POINT RD*

City:

State: *OH*

Location Number: *27*

Location Map Year: *1966*

Latitude: *39.869470*

Longitude: *-83.885789*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *45 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *11 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *6/18/1968*

Total Depth: *45 ft.*

Well Use:

Driller's Name: *LOWER EDWARD H*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *15 ft.*

Test Rate: *30 gpm*

Associated Reports

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations

From

To

CLAY

0

9

LIMESTONE

9

45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
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Well Log Number: 377821

ORIGINAL OWNER AND LOCATION

Original Owner Name: SAM LEWIS

County: CLARK

Address:

City:

Location Number: 177

Latitude: 39.847944

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.907028

Section Number: 29

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 26 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/1/1968

Driller's Name: LOTT'S A E & SON

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 6 ft.

Drawdown:

COMMENTS:

Aquifer Type: GRAVEL

Total Depth: 26 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 10 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
TOP SOIL	0	4
YELLOW CLAY	4	14
BLUE CLAY	14	19
YELLOW GRAVEL	19	26
WATER AT		26

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Water Well Log and Drilling Report

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 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 378881

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ORIGINAL OWNER AND LOCATION

Original Owner Name: EDWARD HART

County: CLARK

Address: 3950 OLD MILL RD

City:

Location Number: 231

Latitude: 39.870185

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.876874

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 115 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 20 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Date of Completion: 8/28/1968

Total Depth: 115 ft.

Well Use:

Driller's Name: BRENNER WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 45 ft.

Test Rate: 5 gpm

Associated Reports

Drawdown: 110 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	10
WHITE STONE	10	55
MUD	55	56
WHITE STONE	56	65
SHALE	65	66
STONE	66	70
SHALE	70	90
SHALE	90	115
WHITE STONE	115	115

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 405312

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN FREY

County: CLARK

Address: 4740 OLD MILL RD

City:

Location Number: 21

Latitude: 39.859040

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.879675

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 113 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/28/1970

Driller's Name: FYFFE T J

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 70 ft.

Drawdown:

COMMENTS:

Aquifer Type: LIMESTONE & SHALE

Total Depth: 113 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 7 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
YELLOW CLAY	0	12
LIMESTONE	12	104
LIMESTONE & SHALE	104	113
SULPHERY WATER AT		94

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 405316

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN LUCAS

County: CLARK

Address: REBERT PI

City:

Location Number: 132

Latitude: 39.862614

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.908162

Section Number: 30

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 65 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 14 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/15/1970

Driller's Name: FYFFE T J

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 65 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 22 ft.

Drawdown:

COMMENTS:

Test Rate: 20 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
YELLOW CLAY	0	7
LIMESTONE	7	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 405343

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GERALD MILAN
 County: CLARK
 Address: TECUMSEH RD S
 City:
 Location Number: 149
 Latitude: 39.862785

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.88944

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 106 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 26 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:
 Date of Completion: 10/12/1970
 Driller's Name: FYFFE T J

Aquifer Type: LIMESTONE
 Total Depth: 106 ft.

Well Use:

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 45 ft.
 Drawdown:

Test Rate: 2 gpm
 Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	16
LIMESTONE	16	17
RED CLAY	17	25
LIMESTONE	25	70
BROKEN LIMESTONE	70	106
BROKEN SHELL	106	106

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 412895

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES CASTLE

County: CLARK

Address: REBERT PI

City:

Location Number: 30

Latitude: 39.867171

Township: MADRIVER

State: OH

Location Map Year: 1966

Longitude: -83.898318

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 54 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 22 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 17 ft.

Drawdown: 15 ft.

Aquifer Type: LIMESTONE

Total Depth: 54 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	22
LIMESTONE	22	54

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 421870

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address:

City:

Location Number: 176

Latitude: 39.849290

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917436

Section Number: 29

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 89 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 89 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/30/1971

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown:

COMMENTS:

Aquifer Type: GRAVEL

Total Depth: 89 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 30 gpm

Test Duration: 1 hrs.

Associated Reports

WELL LOG

Formations	From	To
CLAY	0	18
GRAVEL	18	41
CLAY	41	57
SAND	57	63
CLAY	63	76
GRAVEL	76	89

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 421898

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Township: MADRIVER

Section Number: 24

Address: TECUMSEH RD

Lot Number:

City:

Zip Code:

Location Number: 138

Location Area:

Latitude: 39.869467

State: OH

Location Map Year: 1980

Longitude: -83.889299

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 45 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 29 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 1/10/1972

Total Depth: 45 ft.

Well Use:

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
GRAVEL	14	23
CLAY	23	29
LIMESTONE	29	41
SHALE	41	43
LIMESTONE	43	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 425952

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MILLARD PERKINS*

County: *CLARK*

Address: *OLD MILL RD*

City:

Location Number: *123*

Latitude: *39.870754*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.878885*

Section Number: *13*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *82 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *25 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: *FYFFE T J*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *25 ft.*

Drawdown:

COMMENTS:

Aquifer Type: *LIMESTONE*

Total Depth: *82 ft.*

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Test Rate: *10 gpm*

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
YELLOW CLAY	0	11
LIMESTONE	11	65
BLUE SHALE	65	75
LIMESTONE	75	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 425984

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM WRIGHT
 County: CLARK
 Address: 3117 ROCKY POINT RD
 City:
 Location Number: 153
 Latitude: 39.868690

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.870691

[View Image of Original Well Log](#)

Section Number: 18
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 50 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 25 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/8/1972

Total Depth: 50 ft.

Well Use:

Driller's Name: FYFFE T J

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 9 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	12
LIMESTONE	12	50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 433701

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: MILL RD

City:

Location Number: 120

Latitude: 39.878173

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.880692

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 118 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/13/1971

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 60 ft.

Drawdown: 40 ft.

Aquifer Type: LIMESTONE

Total Depth: 118 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	25
LIMESTONE	25	118
WATER AT		118

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433709

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *RODGER ARLEDGE*

County: *CLARK*

Township: *MADRIVER*

Address: *3225 ROCKY POINT RD*

City:

State: *OH*

Location Number:

Location Map Year: *1966*

Latitude: *39.868740*

Longitude: *-83.8731*

Section Number: *18*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *82 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *22 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *6/30/1971*

Total Depth: *82 ft.*

Well Use:

Driller's Name: *LOWER WELL DRILLING CO.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *40 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *30 ft.*

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	82
WATER AT		72

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433712

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 186

Latitude: 39.841303

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.890614

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 82 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/19/1971

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 82 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 40 ft.

Test Rate: 10 gpm

Test Duration:

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	30
LIMESTONE	30	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 433719

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: TECUMSEH RD

City:

Location Number: 110

Latitude: 39.879589

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.896568

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 95 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 35 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/13/1971

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 95 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 50 ft.

Test Rate: 12 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	35
LIMESTONE	35	95
WATER AT		95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 433722

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *RODGER ARLEDGE*

County: *CLARK*

Township: *MADRIVER*

Address: *3225 ROCKY POINT RD*

City:

State: *OH*

Location Number:

Location Map Year: *1966*

Latitude: *39.868740*

Longitude: *-83.8731*

Section Number: *18*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *82 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5.63 in.*

Casing Length: 1: *22 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use:

Date of Completion: *10/18/1971*

Total Depth: *82 ft.*

Driller's Name: *DRILLER UNKNOWN*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *22 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *50 ft.*

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 433746

ORIGINAL OWNER AND LOCATION

Original Owner Name: LON PARKS

County: CLARK

Address: 3381 HUSTEAD RD

City:

Location Number: 216

Latitude: 39.839739

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.880774

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 118 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 42 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/28/1972

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 60 ft.

Aquifer Type: LIMESTONE

Total Depth: 118 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 20 gpm

Test Duration:

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	42
LIMESTONE	42	118
WATER AT		118

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 434217

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address:

City:

Location Number: 175

Latitude: 39.849388

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.918164

Section Number: 29

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 75 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 75 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/22/1972

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: GRAVEL

Total Depth: 75 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown:

COMMENTS:

Test Rate: 20 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	20
GRAVEL	20	40
CLAY	40	54
GRAVEL	54	69
CLAY	69	72
GRAVEL	72	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 434218

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIEGHT

County: CLARK

Address: 2905 TECUMSEH RD

City:

Location Number: 108

Latitude: 39.883247

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.899197

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 55 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 39 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/22/1972

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

COMMENTS:

Aquifer Type: LIMESTONE

Total Depth: 55 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 15 gpm

Test Duration: 0.8 hrs.

Associated Reports

WELL LOG

Formations	From	To
CLAY	0	6
GRAVEL	6	16
CLAY	16	31
GRAVEL	31	35
CLAY	35	39
LIMESTONE	39	55

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443486

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOM HENRY

County: CLARK

Address: 3643 OLD MILL RD

City:

Location Number: 121

Latitude: 39.874088

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.881395

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 75 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 24 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/1/1915

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 75 ft.

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 14 ft.

Drawdown: 5 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	5
GRAVEL & CLAY	5	9
WHITE LIMESTONE	9	58
YELLOW LIMESTONE	58	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 443788

ORIGINAL OWNER AND LOCATION

Original Owner Name: CARL PETTIT

County: CLARK

Address: WESTCLIFF CT

City:

Location Number: 141

Latitude: 39.868688

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.886177

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 3/26/1973

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	17
GRAY LIMESTONE	17	69
SHALE	69	76
GRAY LIMESTONE	76	80
WATER AT		30
WATER AT		80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443790

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *STEPHEN KOOB*

County: *CLARK*

Address: *4430 TECUMSEH RD*

City:

Location Number: *146*

Latitude: *39.864047*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.885161*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *135 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *34 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *3/20/1973*

Driller's Name: *OTHER*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *SHALE & SANDSTONE*

Total Depth: *135 ft.*

Well Use: *DOMESTIC*

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: *25 ft.*

Drawdown: *60 ft.*

Test Rate: *8 gpm*

Test Duration: *2 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	32
LIMESTONE	32	71
SHALE	71	82
SHALE & SANDSTONE	82	135
WATER AT	38	38
WATER AT	130	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443792

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
County: CLARK
Address: 3195 TECUMSEH RD S
City:

Township: MADRIVER
State: OH
Location Map Year: 1980
Longitude: -83.896917

[View Image of Original Well Log](#)

Section Number: 19
Lot Number:
Zip Code:
Location Area:

Location Number: 109
Latitude: 39.879952

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 60 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 56 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:
Date of Completion: 3/26/1973

Aquifer Type: LIMESTONE
Total Depth: 60 ft.

Well Use:

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:
Type:
Set Between:

Slot Size:
Material:

Screen Length:

Gravel Pack Material/Size:
Method of Installation:
Grout Material/Size:
Method of Installation:

Vol/Wt Used:
Placed:
Vol/Wt Used:
Placed

WELL TEST DETAILS

Static Water Level: 18 ft.
Drawdown: 3 ft.

Test Rate: 10 gpm
Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
GRAY CLAY	18	22
FINE GRAVEL & SAND	22	27
GRAY CLAY	27	53
GRAVEL & SAND	53	55
LIMESTONE	55	60
WATER AT		55
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 443797

ORIGINAL OWNER AND LOCATION

Original Owner Name: R WADE

County: CLARK

Address: 4536 HAMPTON RD

City:

Location Number: 61

Latitude: 39.996772

Township: PIKE

State: OH

Location Map Year: 1980

Longitude: -83.935411

Section Number: 3

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 72 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 73 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/15/1973

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 30 ft.

Aquifer Type: SAND & GRAVEL

Total Depth: 72 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	16
SAND & GRAVEL	16	21
GRAY CLAY	21	36
MIXED SAND & GRAVEL	36	41
GRAY CLAY	41	64
MIXED SAND & GRAVEL	64	68
COARSE SAND & GRAVEL	68	72
WATER AT		21
WATER AT		72

Associated Reports

Sealing Report 310361

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 443799

ORIGINAL OWNER AND LOCATION

Original Owner Name: *RURAL HOME CONST CO*

County: *CLARK*

Address: *GROSSEPOINT*

City:

Location Number: *147*

Latitude: *39.865059*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.890576*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *75 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *27 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *6/15/1973*

Driller's Name: *WHEELER DRILLING SERVICE*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *55 ft.*

Drawdown: *2 ft.*

Aquifer Type: *LIMESTONE*

Total Depth: *75 ft.*

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Associated Reports

Test Rate: *20 gpm*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	21
GRAY LIMESTONE	21	65
YELLOW LIMESTONE	65	75
WATER AT		75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 443800

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *CLIFFORD ADKINS*

County: *CLARK*

Address: *4318 REBERT PI*

City:

Location Number: *135*

Latitude: *39.867732*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.895767*

Section Number: *24*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *60 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *26 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *6/15/1973*

Driller's Name: *WHEELER DRILLING SERVICE*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *60 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: *11 ft.*

Drawdown: *40 ft.*

Test Rate: *8 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
LIMESTONE	18	60
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 444973

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: 3222 FAIRFIELD PIKE PI

City:

Location Number: 154

Latitude: 39.860957

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.875252

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 55 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 55 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 10/9/1972

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 55 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 18 ft.

Drawdown: 15 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	8
GRAY CLAY	8	21
SAND & GRAVEL	21	23
GRAY CLAY	23	36
SAND & GRAVEL	36	38
GRAY CLAY	38	51
LIMESTONE	51	55
WATER AT		23
WATER AT		55

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 454664

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CG BUILDER*

County: *CLARK*

Address: *REBERT PI*

City:

Location Number: *117*

Latitude: *39.874383*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.885432*

Section Number: *19*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *70 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *70 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/23/1973*

Driller's Name: *LOTTS A E & SON*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level:

Drawdown:

COMMENTS:

Aquifer Type: *ROCK*

Total Depth: *70 ft.*

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

[Associated Reports](#)

Test Rate: *10 gpm*

Test Duration:

WELL LOG

Formations	From	To
TOP SOIL	0	4
YELLOW CLAY	4	18
YELLOW ROCK	18	28
WHITE ROCK	28	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 454678

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CC BUILDER

County: CLARK

Address: 3600 JACKSON RD

City:

Location Number: 214

Latitude: 39.831950

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.885854

Section Number: 22

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 50 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/12/1973

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: ROCK

Total Depth: 50 ft.

Well Use:

Slot Size:

Material:

Screen Length:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown:

Test Rate: 20 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
YELLOW CLAY	2	21
YELLOW ROCK	21	25
WHITE ROCK	25	50

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 454679

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ORIGINAL OWNER AND LOCATION

Original Owner Name: CC BUILDER

County: CLARK

Address: 3570 JACKSON RD

City:

Location Number:

Latitude: 39.832010

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.88502

Section Number: 22

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 77 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/20/1973

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: ROCK

Total Depth: 77 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 18 ft.

Drawdown:

COMMENTS:

Test Rate: 7 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
TOP SOIL	0	7
YELLOW CLAY	7	21
ROCK	21	77

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 455223

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ORIGINAL OWNER AND LOCATION

Original Owner Name: GUS KING

County: CLARK

Address: 4052 FOWLER RD

City:

Location Number: 131

Latitude: 39.869044

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917833

Section Number: 30

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 100 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 100 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level:

Drawdown:

COMMENTS:

Test Rate: 2 gpm

Test Duration:

[Associated Reports](#)

WELL LOG

Formations	From	To
SAND & GRAVEL	0	28
LIMESTONE	28	62
SHALE	62	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 455232

ORIGINAL OWNER AND LOCATION

Original Owner Name: *RON GREGORY*

County: *CLARK*

Address: *TECUMSEH RD*

City:

Location Number: *212*

Latitude: *39.837967*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.888755*

Section Number: *22*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *60 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*
2:

Casing Length: 1: *25 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion:

Total Depth: *60 ft.*

Well Use:

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

WELL TEST DETAILS

Static Water Level: *20 ft.*

Test Rate: *8 gpm*

[Associated Reports](#)

Drawdown: *10 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL & CLAY	8	14
LIMESTONE	14	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 455244

ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Address: 4700 JACKSON RD

City:

Location Number: 210

Latitude: 39.834959

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.906816

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 105 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 105 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SAND & GRAVEL

Date of Completion:

Total Depth: 105 ft.

Well Use:

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 10 gpm

Associated Reports

Drawdown:

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
SAND & GRAVEL	16	24
CLAY	24	50
SAND & CLAY	50	65
CLAY	65	94
SAND & GRAVEL	94	105

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456273

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *RURAL HOME CONST CO*

County: *CLARK*

Township: *MADRIVER*

Address: *GROSSEPOINT*

City:

State: *OH*

Location Number: *148*

Location Map Year: *1980*

Latitude: *39.864366*

Longitude: *-83.889265*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *88 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*
2:

Casing Length: 1: *26 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *8/16/1974*

Total Depth: *88 ft.*

Well Use:

Driller's Name: *WHEELER DRILLING SERVICE*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *55 ft.*

Test Rate: *7 gpm*

[Associated Reports](#)

Drawdown: *20 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
LIMESTONE	18	80
SHALE	80	85
LIMESTONE	85	88

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456274

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: 4310 TECUMSEH RD S

City:

Location Number: 148

Latitude: 39.864366

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.889265

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 90 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/16/1974

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 90 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 60 ft.

Drawdown: 10 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
BROWN CLAY	1	18
LIMESTONE	18	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456276

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Township: MADRIVER

Section Number: 24

Address: 4343 GROSSEPOINT ST

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year: 1980

Location Area:

Latitude: 39.864870

Longitude: -83.88857

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 85 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 26 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use:

Date of Completion: 8/16/1974

Total Depth: 85 ft.

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 8 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
LIMESTONE	18	75
SHALE	75	80
LIMESTONE	80	85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456278

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MILTON PALMER

County: CLARK

Address: 2939 HUSTEAD RD

City:

Location Number: 218

Latitude: 39.839184

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.872421

Section Number: 16

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 40 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/16/1974

Driller's Name: WHEELER DRILLING SERVICE

Aquifer Type: SAND & GRAVEL

Total Depth: 40 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown:

Test Rate: 30 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	16
GRAY CLAY	16	25
SAND & GRAVEL	25	40

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456279

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: 4390 REBERT PI

City:

Location Number: 133

Latitude: 39.867378

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.896854

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 45 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/16/1974

Driller's Name: WHEELER DRILLING SERVICE

Aquifer Type: LIMESTONE

Total Depth: 45 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 15 ft.

Test Rate: 8 gpm

Test Duration: 3 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	19
LIMESTONE	19	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 456282

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: 4319 GROSSEPOINT

City:

Location Number: 143

Latitude: 39.865478

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.888607

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 70 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/16/1974

Total Depth: 70 ft.

Well Use:

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 45 ft.

Test Rate: 10 gpm

Associated Reports

Drawdown: 8 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	18
SAND & GRAVEL	18	20
LIMESTONE	20	55
MUD	55	56
LIMESTONE	56	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456283

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: 4356 REBERT PI

City:

Location Number: 134

Latitude: 39.867489

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.896343

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 55 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/16/1974

Driller's Name: WHEELER DRILLING SERVICE

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 55 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 13 ft.

Drawdown: 12 ft.

Test Rate: 9 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	16
LIMESTONE	16	55

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 456312

ORIGINAL OWNER AND LOCATION

Original Owner Name: *LESTER/RUBY BREWSTER*

County: *CLARK*

Township: *MADRIVER*

Address: *3824 FOWLER RD*

City:

State: *OH*

Location Number: *103*

Location Map Year: *1980*

Latitude: *39.872461*

Longitude: *-83.917398*

Section Number: *25*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *80 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*
2:

Casing Length: 1: *66 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *8/3/1973*

Total Depth: *80 ft.*

Well Use:

Driller's Name: *WHEELER DRILLING SERVICE*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *50 ft.*

Test Rate: *20 gpm*

Associated Reports

Drawdown: *10 ft.*

Test Duration: *12 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
YELLOW CLAY	1	8
SAND & GRAVEL	8	21
GRAY CLAY	21	60
SHALE	60	65
LIMESTONE	65	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 456602

ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Address: 4484 BROADWAY RD

City:

Location Number: 111

Latitude: 39.878150

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.898214

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 70 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 62 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/16/1973

Driller's Name: RUPERT AND SONS DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 70 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 32 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 0.8 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	62
LIMESTONE	62	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 456629

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JACK FISHER

County: CLARK

Address: 4460 BROADWAY RD

City:

Location Number: 112

Latitude: 39.878185

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.897531

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 84 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 56 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/29/1973

Driller's Name: RUPERT AND SONS DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 84 ft.

Well Use:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 42 ft.

Test Rate: 12 gpm

Test Duration: 0.5 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	43
SAND	43	46
CLAY	46	56
LIMESTONE	56	84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 472018

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EARL EDINGTON

County: CLARK

Address: 3864 FOWLER RD

City:

Location Number: 104

Latitude: 39.871828

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917524

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 76 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 55 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 1/30/1975

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 76 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Screen Length:

WELL TEST DETAILS

Static Water Level: 45 ft.

Drawdown: 20 ft.

Test Rate: 8 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
GRAVEL	5	55
SHALE	55	60
LIMESTONE	60	73
CLAY	73	76
DIRT	76	76

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 472033

ORIGINAL OWNER AND LOCATION

Original Owner Name: EARL EDINGTON

County: CLARK

Address: 3864 FOWLER RD

City:

Location Number: 104

Latitude: 39.871828

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.917524

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 68 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 50 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 6/5/1975

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 68 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 42 ft.

Drawdown:

Test Rate: 16 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
DRY GRAVEL	7	45
CLAY	45	50
SHALE	50	60
LIMESTONE	60	68

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 472044

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *RALPH WADEGR*
 County: *CLARK*
 Address: *4384 GROSSEPOINT RD*
 City:
 Location Number: *145*
 Latitude: *39.864708*

Township: *MADRIVER*
 State: *OH*
 Location Map Year: *1980*
 Longitude: *-83.88702*

Section Number: *24*
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:
 Casing Diameter: 1: *5.63 in.*
 2:
 Casing Height Above Ground:
 Date of Completion: *8/14/1975*
 Driller's Name: *HALL & JENKINS WELL DRILLING*
 Screen Diameter:
 Type:
 Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Borehole Depth: 1: *70 ft.*
 2:
 Casing Length: 1: *26 ft.*
 2:
 Aquifer Type: *SHALE*
 Total Depth: *70 ft.*

Depth to Bedrock:

Casing Thickness: 1:
 2:

Well Use:

Screen Length:

Slot Size:
 Material:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: *40 ft.*
 Drawdown:

Test Rate: *24 gpm*
 Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	68
SHALE	68	70

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Well Log Number: 472045

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BILL STAKER*

County: *CLARK*

Address: *OLD MILL RD*

City:

Location Number: *157*

Latitude: *39.860671*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.881357*

Section Number: *24*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *75 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *27 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/20/1975*

Driller's Name: *HALL & JENKINS WELL DRILLING*

Aquifer Type: *SHALE*

Total Depth: *75 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *50 ft.*

Drawdown:

Test Rate: *18 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	73
SHALE	73	75

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Water Well Log and Drilling Report

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Well Log Number: 480598

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ORIGINAL OWNER AND LOCATION

Original Owner Name: SAM M C CONNEHEA

County: CLARK

Township: MADRIVER

Address: 5949 TECUMSEH RD

City:

State: OH

Location Number: 185

Location Map Year: 1980

Latitude: 39.842059

Longitude: -83.890109

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 75 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 26 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion:

Total Depth: 75 ft.

Well Use:

Driller's Name: FYFFE T J

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
YELLOW CLAY	0	14
LIMESTONE	14	75

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Water Well Log and Drilling Report

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 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 486211

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ORIGINAL OWNER AND LOCATION

Original Owner Name: RAYDEN JOHNSON

County: CLARK

Address: 4895 OLD MILL RD

City:

Location Number: 152

Latitude: 39.857156

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.881825

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 98 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 70 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 1/8/1976

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 25 ft.

Test Rate: 13 gpm

Test Duration: 1 hrs.

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	15
GRAY CLAY	15	70
LIMESTONE	70	98

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Well Log Number: 487204

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ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL GIBSON

County: CLARK

Address: 4895 OLD MILL RD

City:

Location Number: 151

Latitude: 39.857923

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.881534

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 105 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 10/6/1975

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 105 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 63 ft.

Drawdown: 30 ft.

Test Rate: 8 gpm

Test Duration:

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	105
WATER AT		105

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Well Log Number: 487223

ORIGINAL OWNER AND LOCATION

Original Owner Name: BEEFMAN & SON

County: CLARK

Address: 400 HUSTEAD RD S

City:

Location Number: 211

Latitude: 39.838496

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.888844

Section Number: 22

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 95 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/11/1976

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 95 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 75 ft.

Test Rate: 10 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	22
LIMESTONE	22	95
WATER AT		95

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Well Log Number: 489423

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ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Township: MADRIVER

Section Number: 18

Address: 4280 GROSSEPOINT RD

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year: 1980

Location Area:

Latitude: 39.865840

Longitude: -83.88722

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 70 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5.63 in.

Casing Length: 1: 25 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 3/19/1976

Total Depth: 70 ft.

Well Use:

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 20 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	17
LIMESTONE	17	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
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Well Log Number: 489424

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: 3824 QUAIL HOLLOW

City:

Location Number: 142

Latitude: 39.867189

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.886214

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 102 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 3/19/1976

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: SHALE

Total Depth: 102 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 60 ft.

Test Rate: 4 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
LIMESTONE	15	75
SHALE	75	102

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Well Log Number: 489428

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT

County: CLARK

Address: 3990 ACREVIEW DR

City:

Location Number: 144

Latitude: 39.866257

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.889338

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 70 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/9/1976

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 70 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown:

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
LIMESTONE	15	70

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Water Well Log and Drilling Report

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Well Log Number: 489429

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *DANNY STACY*
 County: *CLARK*
 Address: *3429 TECUMSEH RD S*

Township: *MADRIVER*

Section Number: *19*

City:
 Location Number: *113*

State: *OH*
 Location Map Year: *1980*

Lot Number:

Latitude: *39.877305*

Longitude: *-83.89396*

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: *56 ft.*
 2:

Depth to Bedrock:

Casing Diameter: 1: *6.63 in.*
 2:

Casing Length: 1: *40 ft.*
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *4/10/1976*

Total Depth: *56 ft.*

Well Use:

Driller's Name: *HALL & JENKINS WELL DRILLING*

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *15 ft.*

Test Rate: *25 gpm*

Associated Reports

Drawdown: *5 ft.*

Test Duration: *1.5 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
DRY GRAVEL	10	24
CLAY	24	36
GRAVEL	36	40
LIMESTONE	40	45

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Well Log Number: 489442

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHESTER BLAIR

County: CLARK

Address: 3697 REBERT PI

City:

Location Number: 119

Latitude: 39.875608

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.884262

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 62 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 27 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 6/14/1976

Total Depth: 62 ft.

Well Use:

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 9 gpm

Associated Reports

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
SAND	10	24
LIMESTONE	24	62

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Well Log Number: 489447

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ORIGINAL OWNER AND LOCATION

Original Owner Name: HAROLD MAYER

County: CLARK

Address: 6484 MONETE RD

City:

Location Number: 215

Latitude: 39.833402

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.883871

Section Number: 33

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 60 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/7/1976

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 60 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

Test Rate: 12 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
LIMESTONE	9	60

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Well Log Number: 489448

ORIGINAL OWNER AND LOCATION

Original Owner Name: ROBERT EASTON

County: CLARK

Address: FOWLER RD

City:

Location Number: 207

Latitude: 39.839928

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.919446

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 63 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 63 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/9/1976

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown:

COMMENTS:

Aquifer Type: GRAVEL

Total Depth: 63 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

Test Rate: 9 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL	8	20
SAND	20	35
CLAY	35	55
GRAVEL	55	63

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Water Well Log and Drilling Report

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Well Log Number: 502705

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: 4027 CHICO CT
 City:
 Location Number: 147
 Latitude: 39.865059

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.890576

Section Number: 24
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:
 Casing Diameter: 1: 5.63 in.
 2:
 Casing Height Above Ground:
 Date of Completion: 7/30/1976
 Driller's Name: HALL & JENKINS WELL DRILLING
 Screen Diameter:
 Type:
 Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Borehole Depth: 1: 75 ft.
 2:
 Casing Length: 1: 27 ft.
 2:
 Aquifer Type: LIMESTONE
 Total Depth: 75 ft.

Depth to Bedrock:
 Casing Thickness: 1:
 2:

Well Use:
 Screen Length:

Slot Size:
 Material:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

WELL TEST DETAILS

Static Water Level: 50 ft.
 Drawdown:

Test Rate: 12 gpm
 Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
SHALE	18	23
LIMESTONE	23	75

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Water Well Log and Drilling Report

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Well Log Number: 502714

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: 4185 GROSSEPOINT ST

City:

Location Number:

Latitude: 39.867020

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.88842

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 85 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/8/1976

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: SHALE

Total Depth: 85 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown:

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
LIMESTONE	16	84
SHALE	84	85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 502724

ORIGINAL OWNER AND LOCATION

Original Owner Name: THOMAS BLANTON

County: CLARK

Address: 3740 REBERT PI

City:

Location Number: 118

Latitude: 39.875591

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.88573

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 72 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/10/1976

Driller's Name: HALL & JENKINS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 72 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

Test Rate: 15 gpm

Test Duration: 1.5 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	28
LIMESTONE	28	72

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 502732

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN ROTRUCK

County: CLARK

Address: 4752 BROADWAY RD

City:

Location Number: 99

Latitude: 39.877406

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.904161

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 52 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
2:

Casing Length: 1: 43 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 2/16/1977

Total Depth: 52 ft.

Well Use:

Driller's Name: HALLS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 25 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL	12	26
CLAY	26	43
LIMESTONE	43	52

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 502733

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: 4667 BROADWAY RD

City:

Location Number: 100

Latitude: 39.876612

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.902335

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 62 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 44 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/17/1977

Driller's Name: HALLS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 62 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
GRAVEL	11	28
CLAY	28	44
LIMESTONE	44	62

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 502738

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: 4155 GROSSEPOINT

City:

Location Number: 140

Latitude: 39.867877

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.888173

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 77 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/12/1977

Driller's Name: HALLS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown:

COMMENTS:

Aquifer Type: LIMESTONE

Total Depth: 77 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

Associated Reports

WELL LOG

Formations
CLAY
LIMESTONE

From	To
0	18
18	77

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 502740

ORIGINAL OWNER AND LOCATION

Original Owner Name: GERALD NICKELL

County: CLARK

Address: 3896 REBERT PI

City:

Location Number: 115

Latitude: 39.874067

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.887852

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 65 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 33 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/3/1977

Driller's Name: HALLS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 15 ft.

Aquifer Type: LIMESTONE

Total Depth: 65 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	33
LIMESTONE	33	65

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 511781

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *RALPH FORNEY*

County: *CLARK*

Address: *FOWLER RD*

City:

Location Number: *174*

Latitude: *39.842898*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.919699*

Section Number: *29*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *81 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *81 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *7/30/1977*

Driller's Name: *SCOTT DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *GRAVEL*

Total Depth: *81 ft.*

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *48 ft.*

Drawdown:

Test Rate: *20 gpm*

Test Duration: *1 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	4
DRY GRAVEL	4	28
HARDPAN	28	48
GRAVEL	48	50
SAND	50	69
HARDPAN	69	71
GRAVEL	71	81
WATER AT		50
WATER AT		81

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 517218

ORIGINAL OWNER AND LOCATION

Original Owner Name: MIKE STACY

County: CLARK

Address: 4525 BROADWAY RD

City:

Location Number: 101

Latitude: 39.877570

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Casing Diameter: 1: 5.63 in.

2:

Casing Height Above Ground:

Date of Completion: 5/12/1978

Driller's Name: HALLS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown:

COMMENTS:

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.899111

Borehole Depth: 1: 81 ft.

2:

Casing Length: 1: 60 ft.

2:

Aquifer Type: SANDSTONE

Total Depth: 81 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 20 gpm

Test Duration: 2 hrs.

[View Image of Original Well Log](#)

Section Number: 25

Lot Number:

Zip Code:

Location Area:

Depth to Bedrock:

Casing Thickness: 1:

2:

Well Use:

Screen Length:

[Associated Reports](#)

WELL LOG

Formations	From	To
SAND	0	29
SAND & GRAVEL	29	58
CLAY	58	60
LIMESTONE	60	81
SANDSTONE	81	85

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 517287

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ORIGINAL OWNER AND LOCATION

Original Owner Name: GUY CONLEY

County: CLARK

Address: 3680 ROCKY POINT RD

City:

Location Number:

Latitude: 39.870310

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.88489

Section Number: 24

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 60 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/18/1978

Driller's Name: HALLS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 10 ft.

Aquifer Type: LIMESTONE

Total Depth: 60 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Test Rate: 24 gpm

Test Duration: 1 hrs.

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
GRAVEL	13	18
LIMESTONE	18	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 523752

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MARION CONLEY*

County: *CLARK*

Address: *4683 OLD MILL RD*

City:

Location Number: *150*

Latitude: *39.860414*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.88216*

Section Number: *24*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *104 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *25 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *104 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: *70 ft.*

Drawdown: *20 ft.*

Test Rate: *10 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
LIMESTONE	7	104

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 526698

ORIGINAL OWNER AND LOCATION

Original Owner Name: FRANK LAMB

County: CLARK

Address: 5224 JACKSON RD W

City:

Location Number: 208

Latitude: 39.836061

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.915902

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 110 ft.

2:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 67 ft.

2:

Casing Height Above Ground:

Date of Completion: 5/26/1978

Driller's Name: GARRISON CLAY P

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 20 ft.

Aquifer Type: ROCK

Total Depth: 110 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Test Rate: 15 gpm

Test Duration: 2 hrs.

Depth to Bedrock:

Casing Thickness: 1:

2:

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
SAND & CLAY	0	35
CLAY	35	65
ROCK	65	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 528478

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EDWARD PARKINSON

County: CLARK

Township: MADRIVER

Address: 4093 CHICO CT

City:

State: OH

Location Number:

Location Map Year: 1980

Latitude: 39.865140

Longitude: -83.89205

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 76 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 29 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: SANDSTONE

Date of Completion: 8/23/1971

Total Depth: 76 ft.

Well Use:

Driller's Name:

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 31 ft.

Test Rate: 9 gpm

Drawdown: 20 ft.

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
SHALE	9	14
LIMESTONE	14	22
SANDSTONE	22	47
LIMESTONE	47	50
SANDSTONE	50	76

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 530099

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KENT SWAYNL

County: CLARK

Address: 4880 BROADWAY RD

City:

Location Number: 98

Latitude: 39.877279

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.906036

Section Number: 25

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 69 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 52 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/29/1979

Driller's Name: HALLS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 69 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 10 ft.

Test Rate: 18 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	52
LIMESTONE	52	69

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 530099

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KENT SWAYNL*

County: *CLARK*

Address: *4880 BROADWAY RD*

City:

Location Number: *98*

Latitude: *39.877279*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Casing Diameter: 1: *5.63 in.*

2:

Casing Height Above Ground:

Date of Completion: *9/29/1979*

Driller's Name: *HALLS WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *15 ft.*

Drawdown: *10 ft.*

COMMENTS:

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.906036*

Borehole Depth: 1: *69 ft.*

2:

Casing Length: 1: *52 ft.*

2:

Aquifer Type: *LIMESTONE*

Total Depth: *69 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: *18 gpm*

Test Duration: *1 hrs.*

Section Number: *25*

Lot Number:

Zip Code:

Location Area:

Depth to Bedrock:

Casing Thickness: 1:

2:

Well Use:

Screen Length:

Associated Reports

WELL LOG

Formations	From	To
CLAY	0	52
LIMESTONE	52	69

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 567410

ORIGINAL OWNER AND LOCATION

Original Owner Name: DAVID SMITH

County: CLARK

Address: FAIRFIELD PIKE RD

City:

Location Number: 181

Latitude: 39.852509

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.888447

Section Number: 23

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 84 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 58 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/26/1978

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 84 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 58 ft.

Drawdown: 5 ft.

Test Rate: 10 gpm

Test Duration:

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	22
GRAVEL & CLAY	22	58
LIMESTONE	58	84
WATER AT		84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 569855

ORIGINAL OWNER AND LOCATION

Original Owner Name: WAYNE WRIGHT
 County: CLARK
 Address: TECUMSEH RD
 City:

Township: MADRIVER
 State: OH
 Location Map Year: 1980
 Longitude: -83.890791

Section Number: 23
 Lot Number:
 Zip Code:
 Location Area:

Location Number: 183
 Latitude: 39.846622

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 82 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
 2:

Casing Length: 1: 30 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 5/1/1979

Total Depth: 82 ft.

Well Use:

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:
 Type:

Slot Size:
 Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 20 ft.

Test Rate: 8 gpm

Associated Reports

Drawdown: 60 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	82
WATER AT		80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 569865

ORIGINAL OWNER AND LOCATION

Original Owner Name: *RON PARKS*

County: *CLARK*

Address: *ROCKY POINT RD*

City:

Location Number: *139*

Latitude: *39.869401*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.888172*

Section Number: *24*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *82 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *30 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/23/1979*

Driller's Name: *LOWER WELL DRILLING CO.*

Aquifer Type: *LIMESTONE*

Total Depth: *82 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *30 ft.*

Drawdown: *20 ft.*

Test Rate: *15 gpm*

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 569866

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BILL MEYER*

County: *CLARK*

Address: *3865 OLD MILL RD*

City:

Location Number: *122*

Latitude: *39.871566*

Township: *MADRIVER*

State: *OH*

Location Map Year: *1980*

Longitude: *-83.881313*

Section Number: *19*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *95 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *30 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/28/1979*

Driller's Name: *LOWER WELL DRILLING CO.*

Aquifer Type: *LIMESTONE*

Total Depth: *95 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *30 ft.*

Drawdown: *50 ft.*

Test Rate: *8 gpm*

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	95
WATER AT		95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 569873

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LON PARKS

County: CLARK

Address: JACKSON RD

City:

Location Number: 209

Latitude: 39.835510

Township: MADRIVER

State: OH

Location Map Year: 1980

Longitude: -83.910132

Section Number: 28

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 84 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 84 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 10/16/1978

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: GRAVEL

Total Depth: 84 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 64 ft.

Drawdown: 4 ft.

Test Rate: 10 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	80
GRAVEL	80	84
WATER AT		84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 609473

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TOMAR CONST*

County: *CLARK*

Address: *4915 RILEY RD*

City:

Location Number:

Latitude: *39.858270*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90718*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *120 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *26 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *3/14/1984*

Driller's Name: *HAMILTON HARRY S & SONS*

Aquifer Type: *LIMESTONE*

Total Depth: *120 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *60 ft.*

Drawdown: *5 ft.*

Test Rate: *16 gpm*

Test Duration: *1.5 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	18
LIMESTONE	18	109
SANDSTONE	109	115
LIMESTONE	115	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 609487

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TOMAR CONSTRUCTION*

County: *CLARK*

Township: *MADRIVER*

Address: *4746 BOLIN DR*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.858160*

Longitude: *-83.90513*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *110 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *26 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *6/5/1984*

Total Depth: *110 ft.*

Well Use:

Driller's Name: *HAMILTON HARRY S & SONS*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *60 ft.*

Test Rate: *15 gpm*

[Associated Reports](#)

Drawdown: *30 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	110

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 626680

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM ABBERGEY

County: CLARK

Address: 2531 HUSTEAD RD

City:

Location Number:

Latitude: 39.839580

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86502

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 74 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 12/31/1985

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 74 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown: 5 ft.

Test Rate: 20 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	17
SAND & GRAVEL	17	23
LIMESTONE	23	74
WATER AT		74

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 628858

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE BROWN

County: CLARK

Address: 3760 HUSTEAD RD

City:

Location Number:

Latitude: 39.841350

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88785

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 94 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/9/1985

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: SHALE

Total Depth: 94 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 30 ft.

Test Rate: 22 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	91
SHALE	91	94
WATER AT		91

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 628879

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BILL EHRGOTT*

County: *CLARK*

Address: *3800 HUSTEAD RD*

City:

Location Number:

Latitude: *39.841380*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88839*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *94 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *27 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *10/1/1985*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *SHALE*

Total Depth: *94 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *14 ft.*

Drawdown: *45 ft.*

Test Rate: *12 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
LIMESTONE	18	89
SHALE	89	94
WATER AT		89

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 636431

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BROWN*
 County: *CLARK*
 Address: *4741 ECHO HILLS RD*
 City:
 Location Number:
 Latitude: *39.858970*

Township: *MADRIVER*
 State: *OH*
 Location Map Year:
 Longitude: *-83.90511*

Section Number:
 Lot Number:
 Zip Code:
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: *108 ft.*
 2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
 2:

Casing Length: 1: *26 ft.*
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *7/8/1986*

Total Depth: *108 ft.*

Well Use:

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: *50 ft.*

Test Rate: *20 gpm*

Associated Reports

Drawdown: *15 ft.*

Test Duration: *1.5 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL	12	22
LIMESTONE	22	108

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 643952

ORIGINAL OWNER AND LOCATION

Original Owner Name: *JERRY ELMERS*

County: *CLARK*

Address: *4777 BOLIN DR*

City:

Location Number:

Latitude: *39.857220*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90573*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *120 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *26 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *8/13/1984*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *120 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *86 ft.*

Drawdown: *5 ft.*

Test Rate: *20 gpm*

Test Duration: *2 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	16
LIMESTONE	16	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 648299

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM CARVER

County: CLARK

Address: 4443 OLD MILL RD

City:

Location Number:

Latitude: 39.862865

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.880895

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 95 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.

2:

Casing Length: 1: 34 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/26/1984

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 95 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 15 ft.

Test Rate: 10 gpm

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
LIMESTONE	15	82
SHALE	82	95
WATER AT		60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 648439

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DUANE CARTMELL

County: CLARK

Township: MADRIVER

Address: 3526 OLD MILL RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.877440

Longitude: -83.87943

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 71 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 6 in.

Casing Length: 1: 71 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 8/7/1990

Total Depth: 71 ft.

Well Use:

Driller's Name: SCOTT WELL & PUMP CO.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 5 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	13
WHITE LIMESTONE	13	50
BLUE LIMESTONE	50	55
WHITE LIMESTONE	55	59
BLUE LIMESTONE	59	71

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 665747

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN HILT

County: CLARK

Address: 2544 HUSTEAD RD

City:

Location Number:

Latitude: 39.840060

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86563

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 82 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.

2:

Casing Length: 1: 36 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/3/1988

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 82 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 13 ft.

Drawdown: 15 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	29
GRAVEL	29	32
LIMESTONE	32	82
WATER AT		82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 668629

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL TYREE

County: CLARK

Address: 5060 TECUMSEH RD S

City:

Location Number:

Latitude: 39.855140

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88991

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 33 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 11 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/21/1991

Driller's Name: DEPEW WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 7 ft.

Drawdown: 1.5 ft.

Aquifer Type: LIMESTONE

Total Depth: 33 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	32
GRAY SHALEY LIMESTONE	32	33

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 678124

ORIGINAL OWNER AND LOCATION

Original Owner Name: *GLEN SPENCER*

County: *CLARK*

Address: *3260 ROCKY POINT*

City:

Location Number:

Latitude: *39.869670*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87319*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *90 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*

2:

Casing Length: 1: *26 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *6/4/1989*

Driller's Name: *RIDDLE WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *49 ft.*

Drawdown: *6 ft.*

Aquifer Type: *LIMESTONE*

Total Depth: *90 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	4
BROWN CLAY	4	4
LIMESTONE	4	90

Associated Reports

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 678593

ORIGINAL OWNER AND LOCATION

Original Owner Name: ALAN WOOD

County: CLARK

Address: 4944 RILEY RD

City:

Location Number:

Latitude: 39.858020

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90591

Section Number: 30

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
 2:

Borehole Depth: 1: 130 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
 2:

Casing Length: 1: 30 ft.
 2:

Casing Thickness: 1:
 2:

Casing Height Above Ground:

Date of Completion: 4/13/1988

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 130 ft.

Well Use:

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 78 ft.

Drawdown: 15 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

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COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	17
GRAY LIMESTONE	17	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 678595

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT HOLLAND*

County: *CLARK*

Address: *4850 ECHO HILLS AVE*

City:

Location Number:

Latitude: *39.859520*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90628*

Section Number: *30*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *120 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *30 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *4/13/1988*

Driller's Name: *EATON WELL & PUMP*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *78 ft.*

Drawdown: *15 ft.*

Aquifer Type: *LIMESTONE*

Total Depth: *120 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	14
GRAY LIMESTONE	14	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 679283

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY EASTER

County: CLARK

Address: 3250 ROCKY POINT RD

City:

Location Number:

Latitude: 39.869640

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87266

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 95 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 5/28/1988

Driller's Name: HAMILTON HARRY S & SONS

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 60 ft.

Drawdown: 10 ft.

Aquifer Type: LIMESTONE

Total Depth: 95 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use:

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 680565

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY BROOKINS

County: CLARK

Address: 3270 ROCKY POINT RD

City:

Location Number:

Latitude: 39.869690

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87372

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 75 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
2:

Casing Length: 1: 26 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: 8/16/1988

Driller's Name: CRABTREE WELL AND PUMP

Aquifer Type: LIMESTONE

Total Depth: 75 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Drawdown: 75 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

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COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	75

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 685321

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES STRAIT

County: CLARK

Address: 3612 OLD MILL RD

City:

Location Number:

Latitude: 39.875640

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87959

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 92 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/19/1988

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 92 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 5 ft.

Test Rate: 50 gpm

Test Duration: 2 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	92

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 687277

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY SMITH

County: CLARK

Address: 3620 OLD MILL RD

City:

Location Number:

Latitude: 39.874820

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87967

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 90 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/20/1988

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 90 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 5 ft.

Test Rate: 50 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 696226

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CHESTER SANDLIN*

County: *CLARK*

Address: *4871 BROADWAY RD*

City:

Location Number:

Latitude: *39.876370*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90618*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *47 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*
2:

Casing Length: 1: *47 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *GRAVEL*

Well Use: *DOMESTIC*

Date of Completion: *5/25/1989*

Total Depth: *47 ft.*

Driller's Name: *BARKER'S WELL DRILLING, INC.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *35 ft.*

Test Rate: *10 gpm*

Associated Reports

Drawdown: *5 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	1
CLAY	1	8
SAND & GRAVEL	8	12
CLAY	12	40
SAND	40	45
GRAVEL	45	47

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 697690

ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY EASTER

County: CLARK

Address: 3624 OLD MILL RD

City:

Location Number:

Latitude: 39.874410

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.8797

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 90 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/1/1989

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown: 20 ft.

Aquifer Type: LIMESTONE

Total Depth: 90 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 702207

ORIGINAL OWNER AND LOCATION

Original Owner Name: RONALD GREGORY

County: CLARK

Address: 4723 ECHO HILLS AVE

City:

Location Number:

Latitude: 39.858950

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90453

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 120 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/11/1989

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 95 ft.

Aquifer Type: LIMESTONE

Total Depth: 120 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

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COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	5
BROWN GRAVEL & CLAY	5	18
BROWN SANDY GRAVEL & CLAY	18	23
LIMESTONE	23	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 702248

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *PATRICIA BENSON*

County: *CLARK*

Address: *4642 ECHO HILLS AVE*

City:

Location Number:

Latitude: *39.859860*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90339*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *125 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *30 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *3/7/1990*

Driller's Name: *CRABTREE WELL AND PUMP*

Aquifer Type: *LIMESTONE*

Total Depth: *125 ft.*

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *30 ft.*

Drawdown: *95 ft.*

Test Rate: *20 gpm*

Test Duration:

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COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	20
GRAVEL	20	24
LIMESTONE	24	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 714558

ORIGINAL OWNER AND LOCATION

Original Owner Name: *LONNIE THATCHER*

County: *CLARK*

Address: *3220 ROCKY POINT RD*

City:

Location Number:

Latitude: *39.869660*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87158*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *90 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
2:

Casing Length: 1: *29 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use: *DOMESTIC*

Date of Completion: *7/30/1990*

Total Depth: *90 ft.*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *60 ft.*

Test Rate: *20 gpm*

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Drawdown: *3 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
BROWN LIMESTONE	4	8
LIMESTONE	8	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 714581

[View Image of Original Well Log.](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BRIAN LINDAMOOD*

County: *CLARK*

Township: *MADRIVER*

Address: *3200 ROCKY POINT RD*

City:

Location Number:

Latitude: *39.8696*

State: *OH*

Location Map Year:

Longitude: *-83.87048*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *90 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *29 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *9/28/1990*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *90 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Slot Size:

Material:

Screen Length:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *20 ft.*

Drawdown: *40 ft.*

Test Rate: *15 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
BROWN LIMESTONE	5	8
LIMESTONE	8	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 714595

ORIGINAL OWNER AND LOCATION

Original Owner Name: DOUG STEVENSON

County: CLARK

Township: MADRIVER

Address: 4644 BOLIN DR

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.858080

Longitude: -83.90353

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: 115 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 29 ft.
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/30/1990

Total Depth: 115 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 10 gpm

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Drawdown: 1 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	115

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 719214

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL WALTER

County: CLARK

Address: 3600 OLD MILL RD

City:

Location Number:

Latitude: 39.876460

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87952

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 106 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 4/5/1991

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 15 ft.

Aquifer Type: LIMESTONE

Total Depth: 106 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
BROWN LIMESTONE	8	28
GRAY LIMESTONE	28	106
WATER AT		100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 719241

ORIGINAL OWNER AND LOCATION

Original Owner Name: *NORM CLAYPOOL*

County: *CLARK*

Address: *3488 OLD MILL RD*

City:

Location Number:

Latitude: *39.878670*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87931*

Section Number: *13*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *46 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *25 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *10/3/1990*

Driller's Name: *LOWER WELL DRILLING CO.*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *46 ft.*

Well Use: *DOMESTIC*

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *20 ft.*

Drawdown: *10 ft.*

Test Rate: *20 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	12
BROWN SAND & GRAVEL	12	18
BROWN LIMESTONE	18	25
GRAY LIMESTONE	25	46
WATER AT		46

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 723457

ORIGINAL OWNER AND LOCATION

Original Owner Name: *JEFF WEBER*

County: *CLARK*

Address: *3510 OLD MILL RD*

City:

Location Number:

Latitude: *39.877850*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87939*

Section Number: *4*

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *95 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *28 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *11/29/1990*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *95 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *12 ft.*

Drawdown: *30 ft.*

Test Rate: *20 gpm*

Test Duration: *2 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	15
LIMESTONE	15	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 730143

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CLAYPOOL CONST.*

County: *CLARK*

Address: *3333 ROCKY POINT RD*

City:

Location Number:

Latitude: *39.868970*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87606*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *141 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *5.5 in.*
2:

Casing Length: 1: *28 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE & SHALE*

Well Use: *DOMESTIC*

Date of Completion: *6/25/1991*

Total Depth: *141 ft.*

Driller's Name: *WILEY WELL DRILLING, INC.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *46 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE & SHALE	6	141

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 734355

ORIGINAL OWNER AND LOCATION

Original Owner Name: PAUL WALTER

County: CLARK

Address: 3496 OLD MILL RD

City:

Location Number:

Latitude: 39.878260

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87935

Section Number: 13

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 94 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/11/1991

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 94 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 10 ft.

Test Rate: 100 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	16
BROWN GRAVEL & CLAY	16	18
BROWN LIMESTONE	18	25
GRAY LIMESTONE	25	60
BLUE LIMESTONE	60	94
WATER AT		94

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 740302

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MADDEN CONST.*

County: *CLARK*

Address: *6303 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.836320*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88831*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *90 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *29 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *9/23/1991*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *90 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *20 ft.*

Drawdown: *40 ft.*

Test Rate: *10 gpm*

Test Duration: *1 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL	8	10
LIMESTONE	10	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 749271

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BRIAN COMWER*

County: *CLARK*

Address: *3616 OLD MILL RD*

City:

Location Number:

Latitude: *39.875230*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87963*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *80 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *28 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *7/10/1992*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *80 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *35 ft.*

Drawdown: *5 ft.*

Test Rate: *35 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL	9	11
LIMESTONE	11	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 761840

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JULIA CADY

County: CLARK

Township: MADRIVER

Address: 2811 COLLIER RD

City:

Location Number:

Latitude: 39.8619

State: OH

Location Map Year:

Longitude: -83.87039

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 80 ft.

Depth to Bedrock:

2:

2: 80 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 28 ft.

Casing Thickness: 1:

2:

2: 28 ft.

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 4/7/1993

Total Depth: 80 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 15 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
GRAVEL	18	23
LIMESTONE	23	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 762308

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ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY RUTHERFORD

County: CLARK

Township: MADRIVER

Address: 3060 FAIRFIELD PIKE PI

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.863580

Longitude: -83.87262

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 105 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 30 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/22/1992

Total Depth: 105 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 34 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 71 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	6
BROWN GRAVEL & CLAY	6	18
BROWN CLAY	18	24
LIMESTONE	24	105

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 769956

ORIGINAL OWNER AND LOCATION

Original Owner Name: DOUG OGILSBIE

County: CLARK

Address: 6459 MANETE ST

City:

Location Number:

Latitude: 39.833980

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88511

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion:

Driller's Name: DARBYS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown: 43 ft.

Test Rate: 10 gpm

Test Duration: 2 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 771225

ORIGINAL OWNER AND LOCATION

Original Owner Name: COOPER HOMES

County: CLARK

Address: 4496 ECHO HILLS DR

City:

Location Number:

Latitude: 39.859240

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90057

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 140 ft.

2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 50 ft.

2: 50 ft.

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/24/1993

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 90 ft.

Drawdown: 1 ft.

Test Rate: 9 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 772970

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BURGANDY BUILDERS

County: CLARK

Township: MADRIVER

Section Number: 33

Address: 4563 BOLIN AVE

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.857030

Longitude: -83.90182

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 129 ft.

Depth to Bedrock:

2:

2: 129 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 35 ft.

Casing Thickness: 1:

2:

2: 35 ft.

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 8/24/1993

Total Depth: 129 ft.

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 100 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 29 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	7
SAND & CLAY	7	15
BROWN CLAY	15	25
LIMESTONE	25	65
SHALE	65	73
LIMESTONE	73	105
SHALE	105	110
LIMESTONE	110	129

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 775435

ORIGINAL OWNER AND LOCATION

Original Owner Name: H.B.H. BUILDERS

County: CLARK

Address: 3317 ROCKY POINT

City:

Location Number:

Latitude: 39.868930

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87542

Section Number: 18

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 58 ft.

2: 58 ft.

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2: 25 ft.

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/5/1994

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 47 ft.

Drawdown: 2 ft.

Aquifer Type: LIMESTONE

Total Depth: 58 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	4
GRAY LIMESTONE	4	58
WATER AT		58

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 781268

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RAY KEGLEY CONST.

County: CLARK

Township: MADRIVER

Address: 6323 GARRISON RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.836780

Longitude: -83.89832

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 125 ft.

Depth to Bedrock:

2:

2: 125 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 28 ft.

Casing Thickness: 1:

2:

2: 28 ft.

2:

Casing Height Above Ground:

Aquifer Type: LIMESTONE

Date of Completion: 10/12/1993

Total Depth: 125 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL	9	21
LIMESTONE	21	60
SHALE	60	85
LIMESTONE	85	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 783261

ORIGINAL OWNER AND LOCATION

Original Owner Name: PATWIL HOMES

County: CLARK

Address: 4695 BOLIN AVE

City:

Location Number:

Latitude: 39.857140

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90413

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Casing Diameter: 1: 5 in.

2:

Casing Height Above Ground:

Date of Completion: 12/15/1993

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 78 ft.

Drawdown: 42 ft.

COMMENTS:

Borehole Depth: 1: 120 ft.

2: 120 ft.

Casing Length: 1: 25 ft.

2: 25 ft.

Aquifer Type: LIMESTONE

Total Depth: 120 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Depth to Bedrock:

Casing Thickness: 1:

2:

Well Use: DOMESTIC

Screen Length:

Associated Reports

WELL LOG

Formations	From	To
BROWN GRAVEL & CLAY	0	8
GRAVEL & SAND	8	14
LIMESTONE	14	38
SHALE	38	43
LIMESTONE	43	59
SHALE	59	66
LIMESTONE	66	84
SHALE	84	97
LIMESTONE	97	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 791761

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BARRY/VIRGINIA TUTT*

County: *CLARK*

Address: *4692 ECHO HILLS AVE*

City:

Location Number:

Latitude: *39.859890*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90392*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *70 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1:

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *4/8/1995*

Driller's Name: *DEPEW WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *70 ft.*

Well Use: *DOMESTIC*

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *18 ft.*

Drawdown: *30 ft.*

Test Rate: *8 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	21
LT. GRAY LIMESTONE	21	40
DARK GRAY SHALEY LIMESTONE	40	70
WATER AT		40

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 803866

ORIGINAL OWNER AND LOCATION

Original Owner Name: HARRY MADDEN

County: CLARK

Address: 4566 BOLIN DR

City:

Location Number:

Latitude: 39.8580

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90174

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 140 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 6/21/1995

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 90 ft.

Drawdown: 2 ft.

Test Rate: 11 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
SAND & GRAVEL	8	17
CLAY	17	36
LIMESTONE	36	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 810691

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TIM WISKIIRCHEN*

County: *CLARK*

Address: *4697 ECHO HILLS DR*

City:

Location Number:

Latitude: *39.858930*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.904*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *113 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
2:

Casing Length: 1: *27 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Date of Completion: *3/29/1995*

Driller's Name: *R.C. BARRY COMPANY*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *113 ft.*

Well Use: *DOMESTIC*

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: *71 ft.*

Drawdown: *85 ft.*

Test Rate: *12 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	18
BROKEN LIMESTONE	18	22
LIMESTONE	22	40
SHALE	40	45
LIMESTONE	45	113

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
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Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 824108

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MADDEN CONSTRUCTION*

County: *CLARK*

Township: *MADRIVER*

Section Number: *44*

Address: *4560 ECHO HILLS DR*

Lot Number:

City:

State: *OH*

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: *39.859780*

Longitude: *-83.9016*

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *160 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *32 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *SHALE*

Well Use: *DOMESTIC*

Date of Completion: *10/26/1995*

Total Depth: *160 ft.*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *89 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *2 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
GRAVEL & CLAY	8	15
LIMESTONE	15	150
SHALE	150	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 824123

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BILL PITTMAN*

County: *CLARK*

Address: *4943 RILEY RD*

City:

Location Number:

Latitude: *39.857840*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.90721*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *120 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *28 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *12/1/1995*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *120 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *70 ft.*

Drawdown: *5 ft.*

Test Rate: *15 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
GRAVEL	7	16
LIMESTONE	16	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 832214

ORIGINAL OWNER AND LOCATION

Original Owner Name: BAIR CONSTRUCTION

County: CLARK

Address: 3495 FAIRFIELD PIKE PI

City:

Location Number:

Latitude: 39.855690

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88011

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/29/1996

Driller's Name: CRABTREE WELL AND PUMP

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 45 ft.

Drawdown: 80 ft.

Test Rate: 12 gpm

Test Duration: 2 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	22
LIMESTONE	22	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 837340

ORIGINAL OWNER AND LOCATION

Original Owner Name: MIKE STACY

County: CLARK

Address: 5432 BROADWAY RD

City:

Location Number:

Latitude: 39.876040

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.91624

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 60 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 25 ft.

2:

Casing Thickness: 1: 0.165 in.

2:

Casing Height Above Ground:

Date of Completion: 1/1/1998

Driller's Name: DARBYS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 60 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 10 ft.

Test Rate: 5 gpm

Test Duration: 3 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	25
LIMESTONE	25	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
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Well Log Number: 837796

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4726 BOLIN DR

City:

Location Number:

Latitude: 39.858130

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.9046

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 112 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/3/1996

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 112 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 75 ft.

Drawdown: 70 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	112

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 837814

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *MADDEN CONSTRUCTION*

County: *CLARK*

Township: *MADRIVER*

Address: *4643 ECHO HILLS DR*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.8589*

Longitude: *-83.90347*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: *118 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *6 in.*

Casing Length: 1: *28 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *8/8/1996*

Total Depth: *118 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *90 ft.*

Test Rate: *30 gpm*

[Associated Reports](#)

Drawdown:

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
GRAVEL	6	14
LIMESTONE	14	118

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 837825

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN HAMMOND

County: CLARK

Address: 4221 GROSSEPOINT ST

City:

Location Number:

Latitude: 39.866620

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88845

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 158 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/30/1996

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 158 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 85 ft.

Drawdown: 40 ft.

Test Rate: 12 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
GRAVEL & CLAY	9	14
LIMESTONE	14	158

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 848079

ORIGINAL OWNER AND LOCATION

Original Owner Name: HOWARD YOST

County: CLARK

Address: 3285 ROCKY POINT RD

City:

Location Number:

Latitude: 39.8689

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87478

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 100 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 11/13/1996

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 45 ft.

Drawdown: 10 ft.

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Test Rate: 10 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
LIMESTONE	5	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 848163

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE AGLE

County: CLARK

Address: 5744 TECUMSEH RD S

City:

Location Number:

Latitude: 39.844651

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.889871

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 130 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 9/22/1997

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 130 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 65 ft.

Drawdown: 20 ft.

Test Rate: 35 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
GRAVEL	2	10
LIMESTONE	10	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 865307

ORIGINAL OWNER AND LOCATION

Original Owner Name: *CHUCK LEGGE*

County: *CLARK*

Address: *5246 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.852330*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88913*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *6 in.*

2:

Borehole Depth: 1: *62 ft.*

2: *95 ft.*

Depth to Bedrock:

Casing Diameter: 1:

2: *6 in.*

Casing Length: 1:

2: *62 ft.*

Casing Thickness: 1:

2: *0.142 in.*

Casing Height Above Ground:

Date of Completion: *12/17/1997*

Driller's Name: *LOWER WELL DRILLING CO.*

Aquifer Type: *LIMESTONE*

Total Depth: *95 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *58 ft.*

Drawdown: *6 ft.*

Test Rate: *8 gpm*

Test Duration: *1 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
BROWN SAND & GRAVEL	8	38
GRAY CLAY	38	62
GRAY LIMESTONE	62	95
WATER AT	70	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 865313

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM AMBURY

County: CLARK

Address: 2521 HUSTEAD RD

City:

Location Number:

Latitude: 39.839620

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86438

Section Number: 16

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 31 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 31 ft.

2:

Casing Thickness: 1: 0.38 in.

2:

Casing Height Above Ground: 1

Date of Completion: 6/26/1998

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 72 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 5 ft.

Drawdown: 10 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	21
GRAY CLAY	21	25
SANDY GRAVEL	25	28
GRAY LIMESTONE	28	38
BROWN LIMESTONE	38	58
GRAY LIMESTONE	58	70
WATER AT	58	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 865321

ORIGINAL OWNER AND LOCATION

Original Owner Name: KEVIN DEWEY

County: CLARK

Address: 3542 OLD MILL RD

City:

Location Number:

Latitude: 39.878290

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87971

Section Number: 13

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 27 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1: 0.38 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/20/1998

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 3 ft.

Test Rate: 20 gpm

Test Duration: 1 hrs.

Well Use: DOMESTIC

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	15
GRAY CLAY	15	16
GRAY GRAVEL	16	20
GRAY LIMESTONE	20	94
WATER AT	92	92

Associated Reports

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 872567

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BENNY OWENS*

County: *CLARK*

Address: *3295 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.879030*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.89545*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *100 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *55 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *5/19/1998*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *100 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *30 ft.*

Drawdown: *20 ft.*

Test Rate: *20 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	53
LIMESTONE	53	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 872606

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TIM WISKERCHEN*

County: *CLARK*

Address: *3080 FAIRFIELD PIKE PI*

City:

Location Number:

Latitude: *39.863180*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.873*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *100 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
2:

Casing Length: 1: *28 ft.*
2:

Casing Thickness: 1:
2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *9/21/1998*

Total Depth: *100 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed

Method of Installation:

WELL TEST DETAILS

Static Water Level: *40 ft.*

Test Rate: *15 gpm*

[Associated Reports](#)

Drawdown: *5 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
LIMESTONE	11	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 872632

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BILL WILKENS*

County: *CLARK*

Address: *3325 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.878680*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.89517*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *98 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *46 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *12/4/1998*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *98 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *30 ft.*

Drawdown: *15 ft.*

Test Rate: *20 gpm*

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	30
GRAVEL & CLAY	30	45
LIMESTONE	45	98

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 872636

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KEN WOOTEN*

County: *CLARK*

Address: *3357 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.878330*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.89489*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *100 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *47 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *1/13/1999*

Driller's Name: *HALL & JENKINS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *100 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *32 ft.*

Drawdown: *10 ft.*

Test Rate: *18 gpm*

Test Duration:

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	46
LIMESTONE	46	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 885333

ORIGINAL OWNER AND LOCATION

Original Owner Name: PATRICK ZERBY

County: CLARK

Address: 5152 TECUMSEH RD S

City:

Location Number:

Latitude: 39.853710

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88954

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.5 in.

2:

Borehole Depth: 1: 78 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 78 ft.

2:

Casing Thickness: 1: 0.21 in.

2:

Casing Height Above Ground: 1

Date of Completion: 11/19/1998

Driller's Name: JENKINS PUMP SALES & SERV.

Aquifer Type: SHALE

Total Depth: 141 ft.

Well Use:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 83 ft.

Drawdown: 35 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
BLUE CLAY	5	78
BROWN LIMESTONE	78	118
GREEN LIMESTONE	118	130
GRAY LIMESTONE	130	137
GRAY SHALE	137	141

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 885351

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: TERRY GREGORY

County: CLARK

Address: 4624 ECHO HILLS

City:

Location Number:

Latitude: 39.859460

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90538

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 82 ft.

2:

Casing Thickness: 1: 0.21 in.

2:

Casing Height Above Ground: 1

Date of Completion: 8/10/1999

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 130 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 91 ft.

Drawdown: 3 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	10
BLUE CLAY	10	23
BROWN SANDSTONE	23	75
WHITE LIMESTONE	75	95
GREEN LIMESTONE	95	125
GRAY LIMESTONE	125	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 885358

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ORIGINAL OWNER AND LOCATION

Original Owner Name: LEONARD GASTON

County: CLARK

Address: 5146 JACKSON RD W

City:

Location Number:

Latitude: 39.835080

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.91571

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.5 in.

2:

Borehole Depth: 1: 117 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 107 ft.

2:

Casing Thickness: 1: 0.21 in.

2:

Casing Height Above Ground: 1

Date of Completion: 9/25/1999

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SAND & GRAVEL

Total Depth: 117 ft.

Well Use: AGRIC/IRRIG

Screen Length: 10 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 64 ft.

Drawdown: 2 ft.

COMMENTS:

Test Rate: 14 gpm

Test Duration: 1 hrs.

Associated Reports

WELL LOG

Formations	From	To
BROWN CLAY	0	35
SAND & GRAVEL	35	50
BLUE SANDY CLAY	50	102
SAND & GRAVEL	102	117

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 888284

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *DAVID HUSTED*

County: *CLARK*

Address: *3480 REBERT PI*

City:

Location Number:

Latitude: *39.879830*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87921*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*

2: *4.75 in.*

Borehole Depth: 1: *41 ft.*

2: *100 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5.5 in.*

2:

Casing Length: 1: *40 ft.*

2:

Casing Thickness: 1: *0.17 in.*

2:

Casing Height Above Ground:

Date of Completion: *11/25/1998*

Driller's Name: *EATON WELL & PUMP*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *38 ft.*

Drawdown:

COMMENTS:

Aquifer Type: *LIMESTONE*

Total Depth: *100 ft.*

Well Use: *DOMESTIC*

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

[Associated Reports](#)

Test Rate: *15 gpm*

Test Duration: *1 hrs.*

WELL LOG

Formations	From	To
RED CLAY	0	14
LIMESTONE	14	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 895055

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BILL & CLOWA JUSTICE*

County: *CLARK*

Township: *MADRIVER*

Address: *5005 JACKSON RD*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.834630*

Longitude: *-83.91293*

Section Number:

Lot Number:

Zip Code: *45323*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:
2:

Borehole Depth: 1: *62 ft.*
2:

Depth to Bedrock:

Casing Diameter: 1: *5.63 in.*
2:

Casing Length: 1: *62 ft.*
2:

Casing Thickness: 1: *0.032 in.*
2:

Casing Height Above Ground:

Aquifer Type: *GRAVEL & SAND*

Date of Completion: *5/11/1999*

Total Depth: *62 ft.*

Well Use: *DOMESTIC*

Driller's Name: *BARKER'S WELL DRILLING, INC.*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *40 ft.*

Test Rate: *10 gpm*

[Associated Reports](#)

Drawdown: *22 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
RED SAND	2	34
YELLOW CLAY	34	46
GRAVEL	46	53
GRAY CLAY	53	54
WET GRAVEL & SAND	54	62

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 895519

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4501 JEREMY DR

City:

Location Number:

Latitude: 39.860550

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90048

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 150 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 8/15/1999

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: SHALE

Total Depth: 150 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 100 ft.

Drawdown: 5 ft.

Test Rate: 25 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
LIMESTONE	8	143
SHALE	143	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 895573

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4410 OAKWOOD RD

City:

Location Number:

Latitude: 39.862380

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90051

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 120 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 27 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 2/8/2000

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 120 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 20 ft.

Test Rate: 10 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 901161

ORIGINAL OWNER AND LOCATION

Original Owner Name: JAMES RANDALL

County: CLARK

Address: 2678 HUSTEAD RD

City:

Location Number:

Latitude: 39.840030

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86745

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 38 ft.

2:

Casing Thickness: 1: 0.17 in.

2:

Casing Height Above Ground:

Date of Completion: 10/21/1999

Driller's Name: CRABTREE WELL AND PUMP

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown:

Test Rate: 25 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	20
SAND & GRAVEL	20	35
GRAY CLAY	35	38
LIMESTONE	38	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 902119

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *DEMMY SAND & GRAVEL*

County: *CLARK*

Township: *MADRIVER*

Section Number: *24*

Address: *4324 FAIRFIELD PIKE PI*

Lot Number:

City:

State: *OH*

Zip Code: *45502*

Location Number:

Location Map Year:

Location Area:

Latitude: *39.8489*

Longitude: *-83.89861*

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *79 ft.*

Depth to Bedrock:

2: *5.5 in.*

2: *200 ft.*

Casing Diameter: 1: *6.5 in.*

Casing Length: 1: *79 ft.*

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Well Use: *DOMESTIC*

Date of Completion: *10/12/1999*

Total Depth: *200 ft.*

Driller's Name: *EATON WELL & PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Vol/Wt Used:

Gravel Pack Material/Size:

Placed:

Method of Installation:

Vol/Wt Used:

Grout Material/Size:

Placed:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *71 ft.*

Test Rate: *40 gpm*

Associated Reports

Drawdown:

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
SAND & GRAVEL	2	35
GRAVEL	35	64
GRAVELLY CLAY	64	76
BLUE SHALE	76	86
LIMESTONE	86	200

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908583

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: BRANSON PYLES

County: CLARK

Address: 2825 COLLIER RD

City:

Location Number:

Latitude: 39.861920

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87076

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1: 0.17 in.

2:

Casing Height Above Ground:

Date of Completion: 12/20/1999

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 12 ft.

Drawdown: 10 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	16
GRAVEL	16	18
LIMESTONE	18	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 908585

ORIGINAL OWNER AND LOCATION

Original Owner Name: DAN YOUNG

County: CLARK

Address: 2869 JACKSON RD W

City:

Location Number:

Latitude: 39.831650

Township: GREEN

State: OH

Location Map Year:

Longitude: -83.87153

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 100 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1: 0.17 in.

2:

Casing Height Above Ground:

Date of Completion: 12/17/1999

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 22 ft.

Drawdown: 18 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
GRAY CLAY	9	22
SAND	22	31
GRAVEL	31	42
LIMESTONE	42	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 908604

ORIGINAL OWNER AND LOCATION

Original Owner Name: VERNON BAILEY

County: CLARK

Address: 2720 FAIRFIELD PKWY

City:

Location Number:

Latitude: 39.868540

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86693

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1:

2:

Casing Length: 1:

2:

Casing Thickness: 1:

2:

Casing Height Above Ground: 1.50

Date of Completion: 1/10/2000

Driller's Name: CRABTREE WELL AND PUMP

Aquifer Type: LIMESTONE

Total Depth: 120 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 15 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	10
LIMESTONE	10	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 908665

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CHRIS BLUE

County: CLARK

Address: 3620 FAIRFIELD PKWY

City:

Location Number:

Latitude: 39.854080

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88358

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 45 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 45 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1.50

Date of Completion: 4/22/2000

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
GRAY CLAY	9	45
LIMESTONE	45	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 909847

ORIGINAL OWNER AND LOCATION

Original Owner Name: *BRIAN MINTEER*

County: *CLARK*

Address: *3795 REBERT PI*

City:

Location Number:

Latitude: *39.875030*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88545*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

2:

Borehole Depth: 1: *26 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *28 ft.*

2:

Casing Thickness: 1: *0.316 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *6/30/2001*

Driller's Name: *JENKINS PUMP SALES & SERV.*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *81 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: *DOMESTIC*

Screen Length:

WELL TEST DETAILS

Static Water Level: *22 ft.*

Drawdown: *20 ft.*

Test Rate: *20 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
FINE SAND	3	26
BROWN LIMESTONE	26	70
YELLOW LIMESTONE	70	81

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 910406

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TLW BUILDERS*

County: *CLARK*

Address: *2982 SHANK RD*

City:

Location Number:

Latitude: *39.863760*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87055*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *100 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *28 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *3/4/2000*

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *100 ft.*

Well Use: *DOMESTIC*

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: *42 ft.*

Drawdown: *15 ft.*

Test Rate: *12 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY & GRAVEL	8	16
LIMESTONE	16	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 913338

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: THOMAS DIYON

County: CLARK

Address: 5766 GARRISON RD

City:

Location Number:

Latitude: 39.845020

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90242

Section Number:

Lot Number:

Zip Code: 45324

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 120 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.

2:

Casing Length: 1: 72 ft.

2:

Casing Thickness: 1: 0.188 in.

2:

Casing Height Above Ground:

Date of Completion: 6/25/2000

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SAND

Total Depth: 120 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 10 ft.

Drawdown:

Test Rate: 8 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
DRY GRAVEL	2	6
YELLOW CLAY	6	17
GRAY CLAY	17	36
WET SAND	36	38
GRAY CLAY	38	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 915272

ORIGINAL OWNER AND LOCATION

Original Owner Name: WILLIAM SUENDSON

County: CLARK

Address: 3945 ROCKY POINT

City:

Location Number:

Latitude: 39.869950

Township: PIKE

State: OH

Location Map Year:

Longitude: -83.8887

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 0.005 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1.50

Date of Completion: 6/23/2000

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 25 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	20
GRAY CLAY	20	30
LIMESTONE	30	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 916406

ORIGINAL OWNER AND LOCATION

Original Owner Name: *RON FISHER*

County: *CLARK*

Address: *4896 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.857240*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.89065*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *80 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *6 in.*

2:

Casing Length: 1: *30 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *6/13/2000*

Driller's Name:

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: *LIMESTONE*

Total Depth: *80 ft.*

Well Use: *DOMESTIC*

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: *40 ft.*

Drawdown: *1 ft.*

Test Rate: *2 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
LIMESTONE	2	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 916419

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: HOME SPECIALIST

County: CLARK

Address: 4295 BROADWAY

City:

Location Number:

Latitude: 39.8776

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89554

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: 82 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/7/2000

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 2 ft.

Aquifer Type: LIMESTONE

Total Depth: 82 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	38
LIMESTONE	38	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 916480

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TIM WISKIRCHEN*

County: *CLARK*

Address: *2811 FAIRFIELD PKWY*

City:

Location Number:

Latitude: *39.867990*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.8666*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

2:

Borehole Depth: 1: *100 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *28 ft.*

2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: *11/17/2000*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *30 ft.*

Drawdown: *20 ft.*

Aquifer Type: *LIMESTONE*

Total Depth: *100 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: *DOMESTIC*

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	10
LIMESTONE	10	100

Test Rate: *25 gpm*

Test Duration: *2 hrs.*

Associated Reports

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 917968

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SHRINE BUILDING CO.

County: CLARK

Township: MADRIVER

Address: 4437 OAKWOOD DR

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.861660

Longitude: -83.90121

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

Borehole Depth: 1: 180 ft.

Depth to Bedrock:

2: 5 in.

2: 179 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 28 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SHALE

Well Use:

Date of Completion: 2/25/2002

Total Depth: 180 ft.

Driller's Name: BOONE WATER SYSTEMS INC.

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 100 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
LIMESTONE	3	68
SHALE	68	73
LIMESTONE	73	155
SHALE	155	180

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 921842

ORIGINAL OWNER AND LOCATION

Original Owner Name: AXEL MARKIN

County: CLARK

Address: 3411 ROCKY POINT

City:

Location Number:

Latitude: 39.869360

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87804

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 160 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 32 ft.

2:

Casing Thickness: 1: 0.17 in.

2:

Casing Height Above Ground: 1

Date of Completion: 10/3/2000

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 160 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 110 ft.

Drawdown: 5 ft.

Test Rate: 12 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	5
LIMESTONE	5	154
SHALE	154	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 921912

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *D.B. GRIEDER*

County: *CLARK*

Address: *3915 OLD MILL RD*

City:

Location Number:

Latitude: *39.870620*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87962*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

2:

Borehole Depth: 1: *120 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *42 ft.*

2:

Casing Thickness: 1: *0.327 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *3/19/2001*

Driller's Name: *CRABTREE WELL AND PUMP*

Aquifer Type: *LIMESTONE*

Total Depth: *120 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *80 ft.*

Drawdown: *10 ft.*

Test Rate: *12 gpm*

Test Duration: *2 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	7
LIMESTONE	7	47
SHALE	47	91
LIMESTONE	91	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 921921

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ORIGINAL OWNER AND LOCATION

Original Owner Name: *STUDEBAKER CONSTRUCT*

County: *CLARK*

Township: *MADRIVER*

Address: *4556 SULLIVAN*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.8630*

Longitude: *-83.90154*

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *142 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1:

Casing Thickness: 1: *0.327 in.*

2:

2:

2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Well Use: *DOMESTIC*

Date of Completion: *4/3/2001*

Total Depth: *142 ft.*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *40 ft.*

Test Rate: *30 gpm*

Associated Reports

Drawdown: *60 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	8
WHITE LIMESTONE	8	70
SHALE	70	72
WHITE STONE	72	90
YELLOW LIMESTONE	90	92
WHITE LIMESTONE	92	142

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 924822

ORIGINAL OWNER AND LOCATION

Original Owner Name: DAVE EDMUNDS

County: CLARK

Address: 4549 OLD MILL RD

City:

Location Number:

Latitude: 39.861930

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88094

Section Number: 24

Lot Number:

Zip Code: 45505

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 6 in.

2:

Borehole Depth: 1: 28 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1: 0.188 in.

2:

Casing Height Above Ground: 1

Date of Completion: 9/20/2001

Driller's Name: LOWER WELL DRILLING CO.

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 118 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

WELL TEST DETAILS

Static Water Level: 50 ft.

Drawdown: 25 ft.

Test Rate: 4 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	6
BROWN GRAVEL	6	26
GRAY LIMESTONE	26	70
GRAY SHALE	70	110
WHITE LIMESTONE	110	118
WATER AT	40	70

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 927685

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CARL/LINDA MYERS

County: CLARK

Township: MADRIVER

Address: 6419 TECUMSEH RD S

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.834780

Longitude: -83.88805

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8 in.
 2: 5.5 in.

Borehole Depth: 1: 25 ft.
 2: 90 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.63 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.188 in.
 2:

Casing Height Above Ground: 2

Aquifer Type: LIMESTONE

Date of Completion: 8/4/2001

Total Depth: 90 ft.

Well Use: DOMESTIC

Driller's Name: HALL & JENKINS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 28 ft.

Test Rate: 30 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 3 hrs.

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
LIMESTONE	9	90
WATER AT	40	40
WATER AT	82	82

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 929237

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: MIKE ODELL

County: CLARK

Address: 2782 FAIRFIELD PI

City:

Location Number:

Latitude: 39.867690

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.86784

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2: 4.5 in.

Borehole Depth: 1: 40 ft.
2: 100 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
2:

Casing Length: 1: 40 ft.
2:

Casing Thickness: 1: 0.35 in.
2:

Casing Height Above Ground:

Date of Completion: 8/14/2001

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 17 ft.

Drawdown:

COMMENTS:

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
RED CLAY	0	14
LIMESTONE	14	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933615

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *DUSTIN CRANWOOD*

County: *CLARK*

Township: *MADRIVER*

Address: *2586 HUSTEAD RD*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.839950*

Longitude: *-83.86564*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

Borehole Depth: 1: *98 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *40 ft.*

Casing Thickness: 1: *0.327 in.*

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: *LIMESTONE*

Date of Completion: *6/17/2002*

Total Depth: *98 ft.*

Well Use: *DOMESTIC*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *10 ft.*

Test Rate: *25 gpm*

[Associated Reports](#)

Drawdown: *20 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	7
GRAY CLAY & GRAVEL	7	18
GRAVEL	18	23
LIMESTONE	23	98

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 933626

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM MCCUDDY

County: CLARK

Address: 4471 REBERT PI

City:

Location Number:

Latitude: 39.866710

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89761

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 80 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 6/22/2001

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 10 ft.

COMMENTS: RPM MGT.

Test Rate: 25 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
BROWN CLAY	0	12
LIMESTONE	12	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 937644

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN HORNSETH

County: CLARK

Address: 2939 HUSTEDD RD

City:

Location Number:

Latitude: 39.839960

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87188

Section Number: 16

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 40 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.

2:

Casing Length: 1: 40 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground:

Date of Completion: 6/27/2002

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

WELL TEST DETAILS

Static Water Level: 9 ft.

Drawdown:

COMMENTS:

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
BLUE CLAY	0	38
LIMESTONE	38	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 939792

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *RON DENNEY*

County: *CLARK*

Address: *3730 ROCKY POINT RD*

City:

Location Number:

Latitude: *39.870010*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88454*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*

2:

Borehole Depth: 1: *63 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *27 ft.*

2:

Casing Thickness: 1: *0.265 in.*

2:

Casing Height Above Ground: *2*

Date of Completion: *9/6/2002*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Aquifer Type: *LIMESTONE*

Total Depth: *63 ft.*

Well Use: *DOMESTIC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *30 ft.*

Drawdown: *20 ft.*

Test Rate: *15 gpm*

Test Duration: *2 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
CLAY & GRAVEL	2	20
LIMESTONE	20	63

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 939807

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE SCHAEFFER

County: CLARK

Address: 4420 TECUMSEH RD S

City:

Location Number:

Latitude: 39.863550

Township: SPRINGFIELD

State: OH

Location Map Year:

Longitude: -83.89008

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 142 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 32 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 8/18/2003

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type: SHALE

Total Depth: 142 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Drawdown: 60 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	140
SHALE	140	142
WATER AT	140	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 939832

ORIGINAL OWNER AND LOCATION

Original Owner Name: DAN GIBSON

County: CLARK

Address: 4372 OLD MILL RD

City:

Location Number:

Latitude: 39.864420

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88036

[View Image of Original Well Log](#)

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 140 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 70 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 2

Date of Completion: 3/7/2002

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 105 ft.

Drawdown:

Test Rate: 12 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	60
SHALE	60	66
LIMESTONE	66	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 942838

ORIGINAL OWNER AND LOCATION

Original Owner Name: NELSON HOMES WEST

County: CLARK

Township: MADRIVER

Address: 3060 JACKSON RD W

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.831140

Longitude: -83.87511

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.88 in.
2: 4.75 in.

Borehole Depth: 1: 29 ft.
2: 51 ft.

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 29 ft.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/17/2002

Total Depth: 80 ft.

Driller's Name: BAPST, INC.

Screen Diameter:

Slot Size:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 15 ft.

Test Rate: 10 gpm

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

Section Number:

Lot Number:

Zip Code: 45500

Location Area:

Depth to Bedrock:

Casing Thickness: 1: 0.265 in.
2:

Well Use: DOMESTIC

Screen Length:

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	18
BROKEN ROCK & CLAY	18	23
LIMESTONE	23	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 946252

ORIGINAL OWNER AND LOCATION

Original Owner Name: GREG ARNOLD

County: CLARK

Address: 3250 FAIRFIELD PI

City:

Location Number:

Latitude: 39.859890

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.8761

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 150 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 60 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/29/2002

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 45 ft.

Drawdown: 25 ft.

Aquifer Type: LIMESTONE

Total Depth: 150 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
CLAY & SAND	4	6
LIMESTONE	6	78
SANDSTONE	78	82
LIMESTONE	82	92
SHALE	92	98
LIMESTONE	98	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 954471

ORIGINAL OWNER AND LOCATION

Original Owner Name: LARRY ROSS
 County: CLARK
 Address: 6045 SPRINGFIELD-XENIA RD
 City:

Township: MADRIVER

Section Number: 16

Lot Number:

Zip Code: 45502

Location Area:

Location Number:

Latitude: 39.839320

State: OH

Location Map Year:

Longitude: -83.86422

CONSTRUCTION DETAILS

Borehole Diameter: 1: 6 in.
 2:

Borehole Depth: 1: 60 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.
 2:

Casing Length: 1: 35 ft.
 2:

Casing Thickness: 1: 0.188 in.
 2:

Casing Height Above Ground: 2

Date of Completion: 5/30/2003

Driller's Name: LOWER WELL DRILLING CO.

Aquifer Type: LIMESTONE

Total Depth: 60 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 8 ft.

Drawdown: 20 ft.

Test Rate: 20 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	15
GRAY CLAY	15	25
GRAY SAND	25	30
GRAVEL	30	35
GRAY LIMESTONE	35	60
WATER AT	40	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955726

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SCOTT WELLS

County: CLARK

Address: 3709 OLD MILL RD

City:

Location Number:

Latitude: 39.875380

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88033

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.8 in.

2:

Borehole Depth: 1: 68 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 26 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 11/4/2002

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 68 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 10 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
LIMESTONE	6	68

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955776

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JERRY SCHMIDT

County: CLARK

Address: 4140 CHICO CT

City:

Location Number:

Latitude: 39.865670

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89266

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in.

2:

Borehole Depth: 1: 90 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 32 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 1/8/2003

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 90 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 55 ft.

Drawdown: 10 ft.

Test Rate: 10 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	6
CLAY & GRAVEL	6	14
LIMESTONE	14	90

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 955796

ORIGINAL OWNER AND LOCATION

Original Owner Name: NATE HIDDLESON

County: CLARK

Address: 4840 JACKSON RD W

City:

Location Number:

Latitude: 39.834710

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90939

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 126 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 126 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 2/2/2003

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: GRAVEL

Total Depth: 126 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 65 ft.

Drawdown: 5 ft.

Test Rate: 20 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY/SAND/GRAVEL	0	90
SAND	90	115
SAND & CLAY	115	120
GRAVEL	120	126

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 955800

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: KAREN ZYNDA

County: CLARK

Address: 4390 REBERT PI

City:

Location Number:

Latitude: 39.866950

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89582

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in.

2:

Borehole Depth: 1: 62 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 32 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground:

Date of Completion: 5/13/2003

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 62 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 20 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration: 3 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
CLAY/SAND/GRAVEL	7	20
LIMESTONE	20	62
WATER AT	60	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 960630

ORIGINAL OWNER AND LOCATION

Original Owner Name: SANDY WEISS

County: CLARK

Address: 4697 ECHO HILLS DR

City:

Location Number:

Latitude: 39.859030

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90614

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2: 4.75 in.

Borehole Depth: 1: 28 ft.
2: 150 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.
2:

Casing Length: 1: 28 ft.
2:

Casing Thickness: 1:

2:

Casing Height Above Ground:

Date of Completion: 7/17/2003

Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE

Total Depth: 150 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

WELL TEST DETAILS

Static Water Level: 35 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	18
LIMESTONE	18	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 962845

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ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE MUNDY

County: CLARK

Address: 4316 FAIRFIELD PI

City:

Location Number:

Latitude: 39.848930

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89853

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.875 in.

2:

Borehole Depth: 1: 122 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 77 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 8/25/2003

Driller's Name: R. C. BARRY

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 73 ft.

Drawdown: 7 ft.

Aquifer Type: LIMESTONE

Total Depth: 122 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	2
FINE GRAVEL	2	45
GRAY CLAY	45	46
FINE GRAVEL	46	55
GRAY CLAY	55	61
SAND & GRAVEL	61	65
GRAY SHALE & LIMESTONE	65	85
LIMESTONE	85	122

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 963155

ORIGINAL OWNER AND LOCATION

Original Owner Name: ERIC WISE

County: CLARK

Address: 5701 JACKSON RD W

City:

Location Number:

Latitude: 39.848330

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.92394

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 64 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 6 in.

2:

Casing Length: 1: 58 ft.

2:

Casing Thickness: 1: 0.31 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/6/2006

Driller's Name: JENKINS PUMP SALES & SERV.

Screen Diameter:

Type:

Set Between: From: 58 ft. To: 64 ft.

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Aquifer Type:

Total Depth: 64 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: AGRIC/IRRIG

Screen Length: 6 ft.

WELL TEST DETAILS

Static Water Level: 15 ft.

Drawdown: 11 ft.

Test Rate: 30 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
SAND	3	10
BROWN SANDY CLAY	10	25
BLUE CLAY	25	52
SAND & GRAVEL	52	64
BLUE CLAY	64	72
WATER AT	64	64

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 969150

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOM RAPER

County: CLARK

Address: 4757 BROADWAY RD

City:

Location Number:

Latitude: 39.876610

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90381

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2:

Borehole Depth: 1: 80 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 52 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1

Date of Completion: 4/27/2004

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 30 ft.

Drawdown: 20 ft.

Aquifer Type: LIMESTONE

Total Depth: 80 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	12
GRAY CLAY & GUMBO	12	26
GRAVEL & SAND	26	34
GRAY CLAY & GRAVEL	34	48
LIMESTONE	48	80

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 971975

ORIGINAL OWNER AND LOCATION

Original Owner Name: ED HART

County: CLARK

Address: 3950 OLD MILL RD

City:

Location Number:

Latitude: 39.870750

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.8782

Section Number: 18

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4 in.

Borehole Depth: 1: 80 ft.
 2: 180 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 80 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1

Date of Completion: 3/18/2004

Driller's Name: EATON WELL & PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 50 ft.

Drawdown:

COMMENTS:

Aquifer Type: LIMESTONE
 Total Depth: 180 ft.

Well Use: DOMESTIC

Slot Size:
 Material:

Screen Length:

Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

Test Rate: 7 gpm
 Test Duration: 1 hrs.

Associated Reports

WELL LOG

Formations	From	To
LIMESTONE	0	180

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 973489

ORIGINAL OWNER AND LOCATION

Original Owner Name: JIM KELLY

County: CLARK

Address: 5220 TECUMSEH RD S

City:

Location Number:

Latitude: 39.852610

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.88911

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.87 in.

2: 4.5 in.

Borehole Depth: 1: 85 ft.

2: 160 ft.

Depth to Bedrock:

Casing Diameter: 1: 5.5 in.

2:

Casing Length: 1: 85 ft.

2:

Casing Thickness: 1: 0.16 in.

2:

Casing Height Above Ground: 1

Date of Completion: 4/26/2005

Driller's Name: EATON WELL DRILLING INC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 85 ft.

Drawdown: 40 ft.

Aquifer Type:

Total Depth: 160 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed:

Test Rate: 5 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	11
GRAVEL & CLAY	11	82
LIMESTONE	82	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 977091

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *TLW CONST.*

County: *CLARK*

Address: *2910 JACKSON RD W*

City:

Location Number:

Latitude: *39.831670*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.87241*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*

2:

Borehole Depth: 1: *42 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *42 ft.*

2:

Casing Thickness: 1: *0.265 in.*

2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Date of Completion: *11/29/2004*

Total Depth: *95 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *12 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *10 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & SAND	3	29
SAND & GRAVEL	29	37
LIMESTONE	37	95

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 977115

ORIGINAL OWNER AND LOCATION

Original Owner Name: JEFF YOHNER
 County: CLARK
 Address: 6194 FOWLER RD
 City:
 Location Number:
 Latitude: 39.839861

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.919583

[View Image of Original Well Log](#)

Section Number:
 Lot Number:
 Zip Code: 45323
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 44 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 39 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type:

Well Use: DOMESTIC

Date of Completion: 10/25/2004

Total Depth: 44 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size: 0.06 in.

Screen Length: 5 ft.

Type:

Material:

Set Between: From: 39 ft. To: 44 ft.

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 8 ft.

Test Rate: 30 gpm

Associated Reports

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY/SAND/GRAVEL	8	37
SAND & GRAVEL	37	44

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 981218

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT BEARD*
 County: *CLARK*
 Address: *4505 TECUMSEH S*
 City:
 Location Number:
 Latitude: *39.8625*

Township: *MADRIVER*

State: *OH*
 Location Map Year:
 Longitude: *-83.87306*

[View Image of Original Well Log](#)

Section Number:
 Lot Number:
 Zip Code: *45502*
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*
 2: *4 in.*

Borehole Depth: 1: *80 ft.*
 2: *160 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
 2:

Casing Length: 1: *80 ft.*
 2:

Casing Thickness: 1: *0.327 in.*
 2:

Casing Height Above Ground: *1*
 Date of Completion: *8/18/2004*
 Driller's Name: *EATON WELL & PUMP*

Aquifer Type: *LIMESTONE*
 Total Depth: *160 ft.*

Well Use: *DOMESTIC*

Screen Diameter:
 Type:
 Set Between:
 Gravel Pack Material/Size:
 Method of Installation:
 Grout Material/Size:
 Method of Installation:

Slot Size:
 Material:
 Vol/Wt Used:
 Placed:
 Vol/Wt Used:
 Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: *104 ft.*
 Drawdown:

Test Rate: *10 gpm*
 Test Duration: *1 hrs.*

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	19
LIMESTONE	19	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 981219

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEWART YOUNG

County: CLARK

Address: 3081 HUSTEAD RD

City:

Location Number:

Latitude: 39.84

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.875

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4 in.

Borehole Depth: 1: 46 ft.
 2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 46 ft.
 2:

Casing Thickness: 1: 0.327 in.
 2:

Casing Height Above Ground: 1

Date of Completion: 8/18/2004

Driller's Name: EATON WELL & PUMP

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

WELL TEST DETAILS

Static Water Level: 17 ft.

Drawdown:

Test Rate: 15 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
RED CLAY	0	9
GRAVELLY CLAY	9	37
BROKEN STONE	37	44
LIMESTONE	44	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 988176

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY BROOKLINS

County: CLARK

Address: 4062 OLD MILL RD

City:

Location Number:

Latitude: 39.868555

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.879194

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
2: 4.75 in.

Borehole Depth: 1: 127 ft.
2: 42 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 42 ft.
2:

Casing Thickness: 1: 0.327 in.
2:

Casing Height Above Ground: 1.30

Date of Completion: 2/7/2005

Driller's Name: CRABTREE WELL AND PUMP

Aquifer Type:

Total Depth: 127 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 84 ft.

Drawdown: 25 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
LIMESTONE	9	61
SHALE	61	83
LIMESTONE	83	127

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 990726

ORIGINAL OWNER AND LOCATION

Original Owner Name: THOMAS KAHLERT

County: CLARK

Address: 3442 TECUMSEH RD S

City:

Location Number:

Latitude: 39.877389

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.892472

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2: 4.88 in.

Borehole Depth: 1: 46 ft.

2: 49 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 46 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/10/2005

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 25 ft.

Drawdown: 20 ft.

Aquifer Type:

Total Depth: 95 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Well Use: DOMESTIC

Screen Length:

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
CLAY/SAND/GRAVEL	12	43
LIMESTONE	43	95

Test Rate: 20 gpm

Test Duration: 2 hrs.

Associated Reports

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 990771

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4758 HAGAN RD

City:

Location Number:

Latitude: 39.860530

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90826

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Borehole Depth: 1: 29 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 29 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 9/22/2005

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 100 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 60 ft.

Drawdown: 5 ft.

Test Rate: 25 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	2
GRAVEL	2	5
LIMESTONE	5	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 1002922

ORIGINAL OWNER AND LOCATION

Original Owner Name: TLW CONST

County: CLARK

Address: 4250 BROADWAY RD

City:

Location Number:

Latitude: 39.877860

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.89458

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2: 4.88 in.

Borehole Depth: 1: 38 ft.

2: 59 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 38 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 5/5/2006

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 97 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

WELL TEST DETAILS

Static Water Level: 28 ft.

Drawdown: 15 ft.

Test Rate: 20 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
GRAVEL & CLAY	12	34
LIMESTONE	34	97
WATER AT	94	94

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1002932

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4770 ECHO HILLS DR
 City:
 Location Number:
 Latitude: 39.859722

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.905722

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2: 4.88 in.

Borehole Depth: 1: 27 ft.
 2: 83 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 27 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 8/24/2006

Total Depth: 110 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 60 ft.

Test Rate: 20 gpm

Associated Reports

Drawdown: 25 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
GRAVEL & CLAY	3	20
LIMESTONE	20	108
SHALE	108	110
WATER AT	104	104

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 1003792

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT LYONS*

County: *CLARK*

Address: *5429 FOWLER RD*

City:

Location Number:

Latitude: *39.851580*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.92167*

Section Number:

Lot Number:

Zip Code: *45504*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*

2:

Borehole Depth: 1: *45 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *42 ft.*

2:

Casing Thickness: 1: *0.26 in.*

2:

Casing Height Above Ground: *1*

Aquifer Type: *SAND & GRAVEL*

Date of Completion: *6/12/2006*

Total Depth: *45 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size: *0.08 in.*

Screen Length: *3 ft.*

Type:

Material:

Set Between: *From: 42 ft. To: 45 ft.*

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *5 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *10 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
GRAVEL & CLAY	3	39
SAND & GRAVEL	39	45
WATER AT	43	43

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1005183

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DOROTHY DRAKE

County: CLARK

Address: 5252 FAIRFIELD PI

City:

Location Number:

Latitude: 39.848639

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.915861

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2:

Casing Diameter: 1: 5 in.

2:

Casing Height Above Ground: 1

Date of Completion: 10/4/2006

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between: From: 102 ft. To: 107 ft.

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 38 ft.

Drawdown: 6 ft.

COMMENTS:

Borehole Depth: 1: 107 ft.

2:

Casing Length: 1: 102 ft.

2:

Aquifer Type: SAND & GRAVEL

Total Depth: 107 ft.

Slot Size: 0.085 in.

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Depth to Bedrock:

Casing Thickness: 1: 0.26 in.

2:

Well Use: DOMESTIC

Screen Length: 5 ft.

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	8
SAND	8	61
CLAY	61	88
SAND & GRAVEL	88	107
WATER AT	103	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 1006655

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KYLE PETERSON*

County: *CLARK*

Address: *4676 SULLIVAN RD*

City:

Location Number:

Latitude: *39.863067*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.903467*

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8 in.*
2: *5 in.*

Borehole Depth: 1: *25 ft.*
2: *70 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
2:

Casing Length: 1: *27 ft.*
2:

Casing Thickness: 1: *0.265 in.*
2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Date of Completion: *12/30/2007*

Total Depth: *70 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HALL & JENKINS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *30 ft.*

Test Rate: *20 gpm*

[Associated Reports](#)

Drawdown: *15 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	9
WHITE LIMESTONE	9	36
BROWN LIMESTONE	36	67
SHALE	67	70
WATER AT	45	45

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 1007324

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ARNOLD PENCE*

County: *CLARK*

Address: *3507 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.876139*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.892333*

Section Number:

Lot Number:

Zip Code: *45505*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.8 in.*

2:

Borehole Depth: 1: *40 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *40 ft.*

2:

Casing Thickness: 1: *0.26 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *11/1/2007*

Driller's Name: *WHITE WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: *13 ft.*

Drawdown: *20 ft.*

Aquifer Type: *LIMESTONE*

Total Depth: *58 ft.*

Well Use: *DOMESTIC*

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
ROCK & GRAVEL	8	34
BROKEN LIMESTONE	34	40
LIMESTONE	40	58
WATER AT	40	58

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1009497

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DIANA HENDERSON

County: CLARK

Township: MADRIVER

Address: 5545 FAIRFIELD PI

Section Number:

Lot Number:

City:

State: OH

Zip Code: 45323

Location Area:

Location Number:

Location Map Year:

Latitude: 39.848617

Longitude: -83.921333

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7 in.

Borehole Depth: 1: 61 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 5 in.

Casing Length: 1: 61 ft.

Casing Thickness: 1: 0.26 in.

2:

2:

Casing Height Above Ground: 1

Aquifer Type: SAND & GRAVEL

Well Use: DOMESTIC

Date of Completion: 8/4/2008

Total Depth: 61 ft.

Driller's Name: STAGE INC. DBA R.C. BARRY

Screen Diameter:

Slot Size:

Screen Length: 3 ft.

Type:

Material:

Set Between: From: 56 ft. To: 59 ft.

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 21 ft.

Test Rate: 40 gpm

Associated Reports

Drawdown:

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
GRAVEL & CLAY	0	5
SAND & GRAVEL	5	8
GRAVEL & CLAY	8	12
SAND & GRAVEL	12	20
CLAY/SAND/GRAVEL	20	40
COARSE SAND & GRAVEL	40	60
CLAY	60	61
WATER AT	61	61

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1011292

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MADDEN CONST.*

County: *CLARK*

Address: *4720 JEREMY*

City:

Location Number:

Latitude: *39.861333*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.905056*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*
2: *4.88 in.*

Borehole Depth: 1: *60 ft.*
2: *73 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
2:

Casing Length: 1: *60 ft.*
2:

Casing Thickness: 1: *0.265 in.*
2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Date of Completion: *5/27/2010*

Total Depth: *133 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *80 ft.*

Test Rate: *25 gpm*

[Associated Reports](#)

Drawdown: *20 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	133
WATER AT	130	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 1011299

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4741 SULLIVAN RD

City:

Location Number:

Latitude: 39.8625

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90489

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.

2: 4.88 in.

Borehole Depth: 1: 68 ft.

2: 69 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 68 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 11/3/2009

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 137 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size:

Method of Installation:

WELL TEST DETAILS

Static Water Level: 93 ft.

Drawdown: 20 ft.

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used:

Placed

Screen Length:

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
CLAY & GRAVEL	11	15
LIMESTONE	15	137
WATER AT	130	130

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1012451

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *M VERBILLION*
 County: *CLARK*
 Address: *5256 HAGAN*
 City:

Township: *MADRIVER*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

Location Number:

Latitude: *39.853020*

State: *OH*

Location Map Year:

Longitude: *-83.90446*

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8 in.*
 2: *5 in.*

Borehole Depth: 1: *25 ft.*
 2: *77 ft.*

Depth to Bedrock:

Casing Diameter: 1: *6 in.*
 2:

Casing Length: 1: *27 ft.*
 2:

Casing Thickness: 1: *0.188 in.*
 2:

Casing Height Above Ground: *1*

Date of Completion: *10/6/2009*

Aquifer Type: *LIMESTONE*

Total Depth: *77 ft.*

Well Use: *AGRIC/IRRIG*

Driller's Name: *HALL & JENKINS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: *28 ft.*

Test Rate: *25 gpm*

Associated Reports

Drawdown: *5 ft.*

Test Duration: *6 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	18
LIMESTONE	18	21
SHALE	21	25
LIMESTONE & SHALE	25	34
WHITE LIMESTONE	34	48
BROWN LIMESTONE	48	70
LIMESTONE	70	77
WATER AT	56	57
WATER AT	70	71

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1013576

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: DEBI SMITH

County: CLARK

Address: 4318 REBERT PI

City:

Location Number:

Latitude: 39.867333

Township: BETHEL

State: OH

Location Map Year:

Longitude: -83.895472

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2: 4.88 in.

Borehole Depth: 1: 27 ft.
2: 54 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 27 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 9/27/2010

Total Depth: 81 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 35 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 5 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	15
LIMESTONE	15	81
WATER AT	78	79

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 1013578

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4799 SULLIVAN RD

City:

Location Number:

Latitude: 39.862389

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90625

[View Image of Original Well Log](#)

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
2: 4.88 in.

Borehole Depth: 1: 60 ft.
2: 70 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 60 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 9/1/2010

Total Depth: 130 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 30 gpm

Associated Reports

Drawdown: 15 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	12
LIMESTONE	12	130
WATER AT	127	127

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2006807

ORIGINAL OWNER AND LOCATION

Original Owner Name: TOM HIPPI
County: CLARK
Address: 5533 FOWLER RD

Township: MADRIVER

Section Number:

Lot Number:

City:

State: OH

Zip Code:

Location Number:

Location Map Year:

Location Area:

Latitude: 39.85

Longitude: -83.920278

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
2:

Borehole Depth: 1: 54 ft.
2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 52 ft.
2:

Casing Thickness: 1: 0.327 in.
2:

Casing Height Above Ground: 1.30

Aquifer Type: GRAVEL & SAND

Date of Completion: 10/26/2006

Total Depth: 54 ft.

Well Use: DOMESTIC

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter: 5 in.

Slot Size: 0.05 in.

Screen Length: 2 ft.

Type: LOUVERED

Material: PVC

Set Between: From: 52 ft. To: 54 ft.

Gravel Pack Material/Size: PEAGRAVEL

Vol/Wt Used: 400

Method of Installation: Poured (gravity)

Placed: FROM: 50 ft. TO: 54 ft.

Grout Material/Size: Bentonite/polymer slurry

Vol/Wt Used: 350

Method of Installation: Pumped w/Tremie pipe

Placed TO: 50 ft.

WELL TEST DETAILS

Static Water Level: 12 ft.

Test Rate: 10 gpm

[Associated Reports](#)

Drawdown: 35 ft.

Test Duration: 2 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	7
GRAY CREVICY CLAY	7	50
GRAY-BROWN CRUMBLY GRAVEL & SAND	50	54
WATER AT	52	54

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2010621

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: SCHUMACHER HOMES

County: CLARK

Township: MADRIVER

Address: 4618 SULLIVAN RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.863150

Longitude: -83.90246

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.5 in.
 2: 4.5 in.

Borehole Depth: 1: 28 ft.
 2: 60 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 28 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/27/2007

Total Depth: 60 ft.

Driller's Name: BAPST, INC.

Well Use: DOMESTIC

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 130#

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 28 ft.

WELL TEST DETAILS

Static Water Level: 29 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN CLAY	0	3
CLAY & GRAVEL	3	8
WHITE LIMESTONE	8	40
BROWN LIMESTONE	40	50
GRAY LIMESTONE	50	60
WATER AT	50	60

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2010647

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *AMERICAN RESIDENTIAL*
 County: *CLARK* Township: *MADRIVER*
 Address: *2751 HUSTEAD RD*
 City: State: *OH*
 Location Number: Location Map Year:
 Latitude: *39.839833* Longitude: *-83.869361*

Section Number:
 Lot Number:
 Zip Code: *45502*
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: <i>7.78 in.</i>	Borehole Depth: 1: <i>45 ft.</i>	Depth to Bedrock:
2: <i>4.78 in.</i>	2: <i>55 ft.</i>	
Casing Diameter: 1: <i>5 in.</i>	Casing Length: 1: <i>45 ft.</i>	Casing Thickness: 1: <i>0.265 in.</i>
2:	2:	2:
Casing Height Above Ground: <i>1</i>	Aquifer Type: <i>LIMESTONE</i>	Well Use: <i>DOMESTIC</i>
Date of Completion: <i>6/28/2007</i>	Total Depth: <i>100 ft.</i>	
Driller's Name: <i>HAMILTON & SONS WELL DRILLING</i>		Screen Length:
Screen Diameter:	Slot Size:	
Type:	Material:	
Set Between:		
Gravel Pack Material/Size:	Vol/Wt Used:	
Method of Installation:	Placed:	
Grout Material/Size: <i>Bentonite slurry</i>	Vol/Wt Used: <i>63 GALS.</i>	
Method of Installation: <i>Pumped w/Tremie pipe</i>	Placed FROM: <i>45 ft.</i>	

WELL TEST DETAILS

Static Water Level: *12 ft.* Test Rate: *35 gpm* [Associated Reports](#)
 Drawdown: *15 ft.* Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
SAND/CLAY/GRAVEL	10	21
CLAY & GRAVEL	21	40
LIMESTONE	40	100
WATER AT	97	99

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2011357

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: RUTH HUNTER
 County: CLARK
 Address: 4755 BROADWAY RD
 City:
 Location Number:
 Latitude: 39.8761

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.90391

Section Number: 25
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.88 in.
 2:

Borehole Depth: 1: 54 ft.
 2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 54 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 2
 Date of Completion: 7/26/2007

Aquifer Type: LIMESTONE
 Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: QUINTER WELL DRILLING LLC

Screen Diameter:
 Type:
 Set Between:

Slot Size:
 Material:

Screen Length:

Gravel Pack Material/Size:
 Method of Installation:

Vol/Wt Used:
 Placed:

Grout Material/Size: Bentonite/polymer slurry
 Method of Installation: Pumped w/Tremie pipe

Vol/Wt Used: 75 Gallons
 Placed FROM: 54 ft.

WELL TEST DETAILS

Static Water Level: 28 ft.
 Drawdown: 10 ft.

Test Rate: 100 gpm
 Test Duration: 1.5 hrs.

Associated Reports

COMMENTS: CLEAR, GOOD TASTE, NO ODOR

WELL LOG

Formations	From	To
YELLOW SOFT CLAY	0	11
GRAY SOFT CLAY	11	44
WHITE SOFT LIMESTONE	44	52
GRAY SOLID LIMESTONE	52	100
WATER AT	79	98

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2011964

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT BACON*

County: *CLARK*

Address: *6286 TECUMSEH RD S*

City:

Location Number:

Latitude: *39.836990*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.88769*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.88 in.*

2:

Borehole Depth: 1: *60 ft.*

2:

Depth to Bedrock:

Casing Diameter: 1: *5.5 in.*

2:

Casing Length: 1: *60 ft.*

2:

Casing Thickness: 1: *0.327 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *8/20/2007*

Driller's Name: *EATON WELL DRILLING INC*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: *Bentonite/cement slurry*

Method of Installation: *Pumped w/Tremie pipe*

Aquifer Type: *LIMESTONE*

Total Depth: *122 ft.*

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: *100#*

Placed FROM: *60 ft.*

Well Use: *DOMESTIC*

Screen Length:

WELL TEST DETAILS

Static Water Level: *15 ft.*

Drawdown: *10 ft.*

COMMENTS: *CLEAR*

Test Rate: *20 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

WELL LOG

Formations	From	To
BROWN CLAY	0	8
LIMESTONE	8	122
WATER AT	122	122

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2012223

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY TURNER

County: CLARK

Address: 3698 REBERT PI

City:

Location Number:

Latitude: 39.8765

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.885583

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.
2: 4.75 in.

Borehole Depth: 1: 47 ft.
2: 92 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 47 ft.
2:

Casing Thickness: 1: 0.327 in.
2:

Casing Height Above Ground: 1.30

Date of Completion: 8/27/2007

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 92 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 400#

Placed FROM: 47 ft.

WELL TEST DETAILS

Static Water Level: 37 ft.

Drawdown: 40 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS: CLEAR

WELL LOG

Formations	From	To
BROWN STICKY CLAY	0	12
GRAY CLAYEY CLAY	12	44
WHITE HARD LIMESTONE	44	92
WATER AT	90	92

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2012373

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4685 SULLIVAN DR

City:

Location Number:

Latitude: 39.862806

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.904

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
2: 4.78 in.

Borehole Depth: 1: 141 ft.
2: 81 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 60 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground:

Date of Completion: 9/12/2007

Driller's Name: HAMILTON & SONS WELL DRILLING

Aquifer Type: LIMESTONE

Total Depth: 141 ft.

Well Use: DOMESTIC

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 84 GALS.

Placed FROM: 60 ft.

WELL TEST DETAILS

Static Water Level: 90 ft.

Drawdown: 20 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	141
WATER AT	133	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2014645

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KATHY TANKERSLEY*

County: *CLARK*

Address: *4752 BROADWAY RD*

City:

Location Number:

Latitude: *39.877528*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.903778*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*
2: *4.75 in.*

Borehole Depth: 1: *47 ft.*
2: *76 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
2:

Casing Length: 1: *47 ft.*
2:

Casing Thickness: 1: *0.327 in.*
2:

Casing Height Above Ground: *1.30*

Date of Completion: *11/27/2007*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: *Bentonite slurry*

Method of Installation: *Pumped w/Tremie pipe*

Aquifer Type: *LIMESTONE*

Total Depth: *76 ft.*

Well Use: *DOMESTIC*

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: *350#*

Placed FROM: *47 ft.*

WELL TEST DETAILS

Static Water Level: *20 ft.*

Drawdown: *20 ft.*

COMMENTS: *CLEAR*

Test Rate: *20 gpm*

Test Duration: *2 hrs.*

Associated Reports

WELL LOG

Formations	From	To
BROWN STICKY CLAY	0	8
GRAY GRAVELLY SAND	8	28
GRAY CLAYEY CLAY	28	47
WHITE HARD LIMESTONE	47	76
WATER AT	47	76

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2014690

ORIGINAL OWNER AND LOCATION

Original Owner Name: AMERICAN RESIDENTIAL

County: CLARK

Township: MADRIVER

Address: 4736 SULLIVAN RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.863167

Longitude: -83.904667

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

Borehole Depth: 1: 62 ft.

Depth to Bedrock:

2: 4.78 in.

2: 140 ft.

Casing Diameter: 1: 5 in.

Casing Length: 1: 62 ft.

Casing Thickness: 1: 0.265 in.

2:

2:

2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 1/9/2008

Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 120 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 61 ft.

WELL TEST DETAILS

Static Water Level: 85 ft.

Test Rate: 12 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	11
LIMESTONE	11	60
SHALE	60	67
LIMESTONE	67	140
WATER AT	134	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2015983

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4798 SULLIVAN RD

City:

Location Number:

Latitude: 39.862861

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.906028

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

2: 4.78 in.

Borehole Depth: 1: 59 ft.

2: 69 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 59 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 4/19/2008

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 128 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: 83 GALS.

Placed FROM: 59 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Drawdown: 15 ft.

Test Rate: 30 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	10
LIMESTONE	10	128
WATER AT	123	125

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2016262

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT CONPENT*

County: *CLARK*

Address: *3372 HUSTEAD RD*

City:

Location Number:

Latitude: *39.840778*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.881194*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.78 in.*
 2: *4.78 in.*

Borehole Depth: 1: *27 ft.*
 2: *102 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
 2:

Casing Length: 1: *27 ft.*
 2:

Casing Thickness: 1: *0.265 in.*
 2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Date of Completion: *5/2/2008*

Total Depth: *102 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *38 GALS.*

Method of Installation: *Pumped w/Tremie pipe*

Placed FROM: *27 ft.*

WELL TEST DETAILS

Static Water Level: *8 ft.*

Test Rate: *15 gpm*

Associated Reports

Drawdown: *50 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	9
LIMESTONE	9	102
WATER AT	98	100

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2017103

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOHN PITSTICK

County: CLARK

Address: 4875 JACKSON RD W

City:

Location Number:

Latitude: 39.834167

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.909194

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

2: 4.78 in.

Borehole Depth: 1: 110 ft.

2: 170 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 110 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 6/23/2008

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 170 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: 155 GALS.

Placed FROM: 110 ft.

WELL TEST DETAILS

Static Water Level: 85 ft.

Drawdown: 20 ft.

Test Rate: 12 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	30
GRAVEL/SAND/CLAY	30	101
CLAY	101	108
LIMESTONE	108	170
WATER AT	165	168

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2018180

ORIGINAL OWNER AND LOCATION

Original Owner Name: GARY SHANK

County: CLARK

Address: 4880 REBERT PI

City:

Location Number:

Latitude: 39.864333

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.90825

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

2: 4.78 in.

Borehole Depth: 1: 48 ft.

2: 92 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 48 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 8/20/2008

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: 68 GALS.

Placed FROM: 48 ft.

WELL TEST DETAILS

Static Water Level: 75 ft.

Drawdown: 10 ft.

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	11
CLAY & GRAVEL	11	16
LIMESTONE	16	32
SHALE	32	42
LIMESTONE	42	140
WATER AT	110	111
WATER AT	127	128

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2018464

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: EUGENE MCCULLOUGH

County: CLARK

Township: MADRIVER

Address: 3185 OLD MILL RD

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.880722

Longitude: -83.881833

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
2: 4.78 in.

Borehole Depth: 1: 28 ft.
2: 100 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 28 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 9/2/2008

Total Depth: 100 ft.

Well Use: AGRIC/IRRIG

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 40 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 28 ft.

WELL TEST DETAILS

Static Water Level: 30 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
CLAY & GRAVEL	7	14
LIMESTONE	14	100
WATER AT	96	97

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2021939

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JONATHON BARTON

County: CLARK

Township: MADRIVER

Address: 3035 TECUMSEH RD S

City:

State: OH

Location Number:

Location Map Year:

Latitude: 39.882417

Longitude: -83.89975

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
 2: 4.78 in.

Borehole Depth: 1: 43 ft.
 2: 57 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 43 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 4/14/2009

Total Depth: 100 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 60 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 43 ft.

WELL TEST DETAILS

Static Water Level: 40 ft.

Test Rate: 25 gpm

[Associated Reports](#)

Drawdown: 20 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	8
CLAY & SAND	8	38
LIMESTONE	38	100
WATER AT	88	89
WATER AT	95	96

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2022651

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT CONPENT*

County: *CLARK*

Address: *3372 HUSTEAD RD*

City:

Location Number:

Latitude: *39.841306*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.879472*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.78 in.*

2: *4.78 in.*

Borehole Depth: 1: *26 ft.*

2: *54 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *26 ft.*

2:

Casing Thickness: 1: *0.265 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *5/27/2009*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: *Bentonite slurry*

Method of Installation: *Pumped w/Tremie pipe*

Aquifer Type: *LIMESTONE*

Total Depth: *80 ft.*

Well Use: *AGRIC/IRRIG*

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: *37 GALS.*

Placed FROM: *26 ft.*

WELL TEST DETAILS

Static Water Level: *1 ft.*

Drawdown: *20 ft.*

Test Rate: *30 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	16
LIMESTONE	16	80
WATER AT	68	69
WATER AT	78	79

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2022724

ORIGINAL OWNER AND LOCATION

Original Owner Name: TLWBUILDERS

County: CLARK

Address: 3619 OLD MILL RD

City:

Location Number:

Latitude: 39.874944

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.881444

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

2: 4.78 in.

Borehole Depth: 1: 28 ft.

2: 90 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 28 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground:

Date of Completion: 6/24/2009

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 90 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 39 GALS.

Placed FROM: 28 ft.

WELL TEST DETAILS

Static Water Level: 22 ft.

Drawdown: 10 ft.

Test Rate: 25 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	10
LIMESTONE	10	90
WATER AT	86	87

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2022731

ORIGINAL OWNER AND LOCATION

Original Owner Name: LLOYD THOMPSON

County: CLARK

Address: 3912 OLD MILL RD

City:

Location Number:

Latitude: 39.871472

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.879778

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.
2: 4.78 in.

Borehole Depth: 1: 63 ft.
2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 63 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/25/2009

Total Depth: 140 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 89 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 63 ft.

WELL TEST DETAILS

Static Water Level: 100 ft.

Test Rate: 7 gpm

[Associated Reports](#)

Drawdown: 25 ft.

Test Duration: 2 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	16
LIMESTONE	16	68
SHALE	68	100
LIMESTONE	100	140
WATER AT	139	139

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2023931

ORIGINAL OWNER AND LOCATION

Original Owner Name: *DARREN GREEN*

County: *CLARK*

Address: *4711 FAIRFIELD PI*

City:

Location Number:

Latitude: *39.847267*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.908917*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*

2: *4.75 in.*

Borehole Depth: 1: *32 ft.*

2: *160 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *32 ft.*

2:

Casing Thickness: 1: *0.327 in.*

2:

Casing Height Above Ground: *1.30*

Date of Completion: *6/8/2009*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: *Bentonite pellets/chunks*

Method of Installation: *Pumped w/Tremie pipe*

Aquifer Type: *SHALE*

Total Depth: *160 ft.*

Well Use: *AGRIC/IRRIG*

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: *250*

Placed FROM: *32 ft.*

WELL TEST DETAILS

Static Water Level: *20 ft.*

Drawdown: *45 ft.*

Test Rate: *20 gpm*

Test Duration: *2 hrs.*

Associated Reports

COMMENTS: *CLEAR*

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	12
GRAY SANDY SAND & GRAVEL	12	15
GRAY CLAYEY CLAY	15	32
WHITE SHALEY SHALE	32	160
WATER AT	147	160

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2025266

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *DARRIN BARDNELL / TK CONSTRUCTORS*
County: *CLARK* Township: *MADRIVER*
Address: *5421 FOWLER RD*
City: State: *OH*
Location Number: Location Map Year:
Latitude: *39.835556* Longitude: *-83.919167*

Section Number:
Lot Number:
Zip Code: *45323*
Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.25 in.* Borehole Depth: 1: *50 ft.* Depth to Bedrock:
2: 2:
Casing Diameter: 1: *5 in.* Casing Length: 1: *50 ft.* Casing Thickness: 1: *0.265 in.*
2: 2: 2:
Casing Height Above Ground: *1.60* Aquifer Type: *GRAVEL*
Date of Completion: *11/30/2009* Total Depth: *53 ft.* Well Use: *DOMESTIC*
Driller's Name: *WILEY WELL DRILLING, INC.* Slot Size: *0.02 in.* Screen Length: *3 ft.*
Screen Diameter: *5 in.* Material: *PVC*
Type: *CONTINUOUS WIRE WOUND*
Set Between: *From: 50 ft. To: 53 ft.*
Gravel Pack Material/Size: *Quartz Gravel* Vol/Wt Used: *60 gal.*
Method of Installation: *Poured (gravity)* Placed: *FROM: 48 ft. TO: 54 ft.*
Grout Material/Size: *Bentonite/polymer slurry* Vol/Wt Used: *208 gal.*
Method of Installation: *Pumped w/Tremie pipe* Placed *FROM: 48 ft.*

WELL TEST DETAILS

Static Water Level: *11 ft.* Test Rate: *25 gpm* [Associated Reports](#)
Drawdown: *30 ft.* Test Duration: *1 hrs.*

COMMENTS: *SHADE CLOUDY FEW GRAINS*

WELL LOG

Formations	From	To
CLAY	0	7
TAN GRAVEL	7	45
SANDY CLAY & GRAVEL	45	50
GRAVEL	50	53
CLAY	53	60
WATER AT	50	53

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2027772

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4777 SULLIVAN RD

City:

Location Number:

Latitude: 39.862583

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.905444

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 7.78 in.

2: 4.78 in.

Borehole Depth: 1: 62 ft.

2: 78 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 62 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 7/9/2010

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 87 GALS.

Placed FROM: 62 ft.

WELL TEST DETAILS

Static Water Level: 85 ft.

Drawdown: 20 ft.

Test Rate: 16 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	14
LIMESTONE	14	60
SHALE	60	87
LIMESTONE	87	140
WATER AT	135	137

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2029665

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *ROBERT BOWLING*

County: *CLARK*

Address: *5681 FOWLER RD*

City:

Location Number:

Latitude: *39.847639*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.921*

Section Number:

Lot Number:

Zip Code: *45323*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *7.78 in.*

Borehole Depth: 1: *52 ft.*

Depth to Bedrock:

2:

2:

Casing Diameter: 1: *5 in.*

Casing Length: 1: *47 ft.*

Casing Thickness: 1: *0.265 in.*

2:

2:

2:

Casing Height Above Ground: *1*

Aquifer Type: *GRAVEL*

Well Use: *DOMESTIC*

Date of Completion: *10/19/2010*

Total Depth: *52 ft.*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Slot Size: *0.06 in.*

Screen Length: *5 ft.*

Screen Diameter: *5 in.*

Material: *STAINLESS STEEL*

Type: *CONTINUOUS WIRE WOUND*

Set Between: *From: 48 ft. To: 52 ft.*

Gravel Pack Material/Size: *PEA GRAVEL*

Vol/Wt Used: *300 LBS*

Method of Installation: *Tremie*

Placed: *FROM: 46 ft. TO: 52 ft.*

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *65 GALS.*

Method of Installation: *Pumped w/Tremie pipe*

Placed *FROM: 46 ft.*

WELL TEST DETAILS

Static Water Level: *39 ft.*

Test Rate: *30 gpm*

[Associated Reports](#)

Drawdown: *3 ft.*

Test Duration: *2 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	3
CLAY & GRAVEL	3	45
GRAVEL	45	52
WATER AT	48	52

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2032614

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER

County: CLARK

Address: 4715 JEREMY AVE

City:

Location Number:

Latitude: 39.861083

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.904528

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
2: 4.78 in.

Borehole Depth: 1: 56 ft.
2: 66 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
2:

Casing Length: 1: 56 ft.
2:

Casing Thickness: 1: 0.265 in.
2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Date of Completion: 6/2/2011

Total Depth: 122 ft.

Well Use: DOMESTIC

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 80 GALS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 56 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Test Rate: 15 gpm

[Associated Reports](#)

Drawdown: 10 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	122
WATER AT	118	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2034569

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: JOE FAUST

County: CLARK

Address: 3580 FAIRFIELD PI

City:

Location Number:

Latitude: 39.854889

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.882417

Section Number:

Lot Number:

Zip Code: 45323

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2: 4.78 in.

Borehole Depth: 1: 42 ft.

2: 44 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 42 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 9/22/2011

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 86 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 80 GALS.

Placed FROM: 42 ft.

WELL TEST DETAILS

Static Water Level: 45 ft.

Drawdown: 5 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	9
CLAY & GRAVEL	9	39
LIMESTONE	39	86
WATER AT	83	84

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2035966

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *MATT / WHITNEY DEARTH*

County: *CLARK*

Township: *MADRIVER*

Address: *4646 SULLIVAN SR*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.863278*

Longitude: *-83.903333*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *9 in.*

Borehole Depth: 1: *67 ft.*

Depth to Bedrock:

2: *4.78 in.*

2: *70 ft.*

Casing Diameter: 1: *5 in.*

Casing Length: 1: *67 ft.*

Casing Thickness: 1: *0.265 in.*

2:

2:

2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Date of Completion: *12/29/2011*

Total Depth: *137 ft.*

Well Use: *DOMESTIC*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *127 GALS*

Method of Installation: *Pumped w/Tremie pipe*

Placed *FROM: 67 ft.*

WELL TEST DETAILS

Static Water Level: *80 ft.*

Test Rate: *20 gpm*

Associated Reports

Drawdown: *15 ft.*

Test Duration: *1 hrs.*

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	12
LIMESTONE	12	137
WATER AT	134	135

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2036349

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4663 SULLIVAN RD

City:

Location Number:

Latitude: 39.862972

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.903611

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2: 4.78 in.

Borehole Depth: 1: 67 ft.

2: 71 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 67 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 1/30/2012

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 138 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: 128 GALS.

Placed FROM: 67 ft.

WELL TEST DETAILS

Static Water Level: 85 ft.

Drawdown: 5 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	138
WATER AT	135	136

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2040077

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS

County: CLARK

Address: 4818 SULLIVAN RD

City:

Location Number:

Latitude: 39.862278

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.907028

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2: 4.78 in.

Borehole Depth: 1: 60 ft.

2: 62 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 30 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 10/5/2012

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 122 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 115 GALS. / 320 LBS.

Placed FROM: 60 ft.

WELL TEST DETAILS

Static Water Level: 80 ft.

Drawdown: 10 ft.

COMMENTS: CLEAR

Test Rate: 20 gpm

Test Duration: 1 hrs.

Associated Reports

WELL LOG

Formations	From	To
CLAY	0	10
LIMESTONE	10	44
SHALE	44	60
LIMESTONE	60	122
WATER AT	114	115

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2041204

[View Image of Original Well Log](#)

ORIGINAL OWNER AND LOCATION

Original Owner Name: *GOTHARD PUMP SERVICE*

County: *CLARK*

Township: *MADRIVER*

Address: *4971 REBERT PI*

City:

State: *OH*

Location Number:

Location Map Year:

Latitude: *39.862361*

Longitude: *-83.908278*

CONSTRUCTION DETAILS

Borehole Diameter: 1: *9 in.*

Borehole Depth: 1: *56 ft.*

Depth to Bedrock:

2: *4.78 in.*

2: *53 ft.*

Casing Diameter: 1: *5 in.*

Casing Length: 1: *56 ft.*

Casing Thickness: 1: *0.265 in.*

2:

2:

2:

Casing Height Above Ground: *1*

Aquifer Type: *LIMESTONE*

Date of Completion: *12/14/2012*

Total Depth: *109 ft.*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Slot Size:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *100 GALS. / 300 LBS.*

Method of Installation: *Pumped w/Tremie pipe*

Placed FROM: *56 ft.*

WELL TEST DETAILS

Static Water Level: *80 ft.*

Test Rate: *20 gpm*

Drawdown: *10 ft.*

Test Duration: *1 hrs.*

COMMENTS:

Well Use: *AGRIC/IRRIG*

Screen Length:

[Associated Reports](#)

WELL LOG

Formations	From	To
CLAY	0	5
CLAY & GRAVEL	5	20
LIMESTONE	20	109
WATER AT	102	103

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2044329

ORIGINAL OWNER AND LOCATION

Original Owner Name: WADE BROWER

County: CLARK

Address: 4283 OLD MILL RD

City:

Location Number:

Latitude: 39.859350

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.87524

Section Number:

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2: 4.75 in.

Borehole Depth: 1: 39 ft.

2: 140 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 39 ft.

2:

Casing Thickness: 1: 0.327 in.

2:

Casing Height Above Ground: 1.30

Date of Completion: 7/22/2013

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 140 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: 150#/20GAL-3 BAGS

Placed FROM: 39 ft.

WELL TEST DETAILS

Static Water Level: 90 ft.

Drawdown: 10 ft.

COMMENTS: CLEAR

Test Rate: 20 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

WELL LOG

Formations	From	To
BROWN CLAYEY CLAY	0	3
WHITE LIMEY LIMESTONE	3	140
WATER AT	140	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2044521

ORIGINAL OWNER AND LOCATION

Original Owner Name: *KIMBERLY HILLIARD*

County: *CLARK*

Address: *4624 DAYTON-SPRINGFIELD RD*

City:

Location Number:

Latitude: *39.875640*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.900318*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *8.75 in.*
2: *4.75 in.*

Borehole Depth: 1: *37 ft.*
2: *150 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*
2:

Casing Length: 1: *37 ft.*
2:

Casing Thickness: 1: *0.327 in.*
2:

Casing Height Above Ground: *1.30*

Aquifer Type: *LIMESTONE*

Well Use: *DOMESTIC*

Date of Completion: *4/30/2013*

Total Depth: *150 ft.*

Driller's Name: *CRABTREE WELL AND PUMP*

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: *Bentonite slurry*

Vol/Wt Used: *250#95GALPER5BAGS*

Method of Installation: *Pumped w/Tremie pipe*

Placed FROM: *37 ft.*

WELL TEST DETAILS

Static Water Level: *65 ft.*

Test Rate: *20 gpm*

Associated Reports

Drawdown: *25 ft.*

Test Duration: *2 hrs.*

COMMENTS: *CLEAR*

WELL LOG

Formations	From	To
BROWN DRY SOIL	0	3
GRAY LIMEY LIMESTONE	3	20
YELLOW LIMEY LIMESTONE	20	65
GRAY LIMEY LIMESTONE	65	70
WHITE LIMEY LIMESTONE	70	100
YELLOW LIMEY LIMESTONE	100	130
GRAY LIMEY SHALE & LIMESTONE	130	150
WATER AT	90	150

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 2046915

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER

County: CLARK

Address: 5779 FOWLER RD

City:

Location Number:

Latitude: 39.846222

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2:

Casing Diameter: 1: 5 in.

2:

Casing Height Above Ground: 1

Date of Completion: 3/26/2014

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter: 5 in.

Type: MACHINE SLOTTED

Set Between: From: 72 ft. To: 77 ft.

Gravel Pack Material/Size: PEA GRAVEL

Method of Installation: Tremie

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

WELL TEST DETAILS

Static Water Level: 42 ft.

Drawdown: 5 ft.

COMMENTS:

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.921

[View Image of Original Well Log](#)

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

Depth to Bedrock:

Casing Thickness: 1: 0.265 in.

2:

Well Use: DOMESTIC

Screen Length: 5 ft.

Borehole Depth: 1: 77 ft.

2:

Casing Length: 1: 72 ft.

2:

Aquifer Type: GRAVEL

Total Depth: 77 ft.

Slot Size: 0.09 in.

Material: PVC

Vol/Wt Used: 275 LBS.

Placed: FROM: 70 ft. TO: 77 ft.

Vol/Wt Used: 135 GALS. / 375 LBS.

Placed FROM: 70 ft.

Test Rate: 30 gpm

Test Duration: 1 hrs.

Associated Reports

WELL LOG

Formations	From	To
CLAY	0	2
SAND & CLAY	2	29
CLAY & GRAVEL	29	72
GRAVEL	72	77
WATER AT	72	77

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 2046916

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER

County: CLARK

Address: 4584 SULLIVAN RD

City:

Location Number:

Latitude: 39.863111

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.901972

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2: 4.78 in.

Borehole Depth: 1: 74 ft.

2: 72 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 74 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 3/27/2014

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 146 ft.

Well Use: DOMESTIC

Slot Size:

Material:

Screen Length:

Vol/Wt Used:

Placed:

Vol/Wt Used: 140 GALS. / 395 LBS.

Placed FROM: 74 ft.

WELL TEST DETAILS

Static Water Level: 100 ft.

Drawdown: 10 ft.

Test Rate: 15 gpm

Test Duration: 1 hrs.

Associated Reports

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	4
LIMESTONE	4	146
WATER AT	143	143

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2047741

ORIGINAL OWNER AND LOCATION

Original Owner Name: GREG GARMAN

County: CLARK

Address: 2989 FAIRFIELD PI

City:

Location Number:

Latitude: 39.859397

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.868597

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 8.75 in.

2: 4.75 in.

Borehole Depth: 1: 29 ft.

2: 120 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 29 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1.50

Date of Completion: 5/22/2014

Driller's Name: CRABTREE WELL AND PUMP

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: LIMESTONE

Total Depth: 120 ft.

Well Use: DOMESTIC

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: 66g/150#

Placed FROM: 29 ft.

WELL TEST DETAILS

Static Water Level: 28 ft.

Drawdown: 35 ft.

Test Rate: 15 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
BROWN CLAY	0	14
WHITE LIMESTONE	14	120
WATER AT	118	120

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
 Division of Soil and Water
 Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2048482

ORIGINAL OWNER AND LOCATION

Original Owner Name: CALVIN WATTS
 County: CLARK
 Address: 4780 SULLIVAN RD
 City:
 Location Number:
 Latitude: 39.863056

Township: MADRIVER
 State: OH
 Location Map Year:
 Longitude: -83.905472

Section Number:
 Lot Number:
 Zip Code: 45502
 Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.
 2: 4.78 in.

Borehole Depth: 1: 63 ft.
 2: 67 ft.

Depth to Bedrock:

Casing Diameter: 1: 5 in.
 2:

Casing Length: 1: 63 ft.
 2:

Casing Thickness: 1: 0.265 in.
 2:

Casing Height Above Ground: 1

Aquifer Type: LIMESTONE

Well Use: DOMESTIC

Date of Completion: 8/5/2014

Total Depth: 130 ft.

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size: Bentonite slurry

Vol/Wt Used: 120 GALS. / 330 LBS.

Method of Installation: Pumped w/Tremie pipe

Placed FROM: 63 ft.

WELL TEST DETAILS

Static Water Level: 87 ft.

Test Rate: 20 gpm

Associated Reports

Drawdown: 15 ft.

Test Duration: 1 hrs.

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	13
LIMESTONE	13	130
WATER AT	126	127

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2050744

ORIGINAL OWNER AND LOCATION

Original Owner Name: *HELGA MOWERY*

County: *CLARK*

Address: *3904 OLD MILL RD*

City:

Location Number:

Latitude: *39.871472*

Township: *MADRIVER*

State: *OH*

Location Map Year:

Longitude: *-83.879778*

Section Number:

Lot Number:

Zip Code: *45502*

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: *9 in.*

2: *4.78 in.*

Borehole Depth: 1: *61 ft.*

2: *79 ft.*

Depth to Bedrock:

Casing Diameter: 1: *5 in.*

2:

Casing Length: 1: *61 ft.*

2:

Casing Thickness: 1: *0.265 in.*

2:

Casing Height Above Ground: *1*

Date of Completion: *1/15/2015*

Driller's Name: *HAMILTON & SONS WELL DRILLING*

Screen Diameter:

Type:

Set Between:

Gravel Pack Material/Size:

Method of Installation:

Grout Material/Size: *Bentonite slurry*

Method of Installation: *Pumped w/Tremie pipe*

Aquifer Type: *LIMESTONE*

Total Depth: *140 ft.*

Well Use: *DOMESTIC*

Screen Length:

Slot Size:

Material:

Vol/Wt Used:

Placed:

Vol/Wt Used: *120 GALS. / 330 LBS.*

Placed FROM: *61 ft.*

WELL TEST DETAILS

Static Water Level: *90 ft.*

Drawdown: *5 ft.*

Test Rate: *15 gpm*

Test Duration: *1 hrs.*

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	1.60
LIMESTONE	1.60	57
SHALE	57	73
LIMESTONE	73	140
WATER AT	62	140

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

[View Image of Original Well Log](#)

Well Log Number: 2051481

ORIGINAL OWNER AND LOCATION

Original Owner Name: STEVE OXNER

County: CLARK

Address: 5755 FOWLER RD

City:

Location Number:

Latitude: 39.846611

Township: MADRIVER

State: OH

Location Map Year:

Longitude: -83.920972

Section Number:

Lot Number:

Zip Code: 45502

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1: 9 in.

2:

Borehole Depth: 1: 81 ft.

2:

Depth to Bedrock:

Casing Diameter: 1: 5 in.

2:

Casing Length: 1: 77 ft.

2:

Casing Thickness: 1: 0.265 in.

2:

Casing Height Above Ground: 1

Date of Completion: 4/1/2015

Driller's Name: HAMILTON & SONS WELL DRILLING

Screen Diameter: 5 in.

Type: MACHINE SLOTTED

Set Between: From: 59 ft. To: 63 ft.

Gravel Pack Material/Size: PEA GRAVEL

Method of Installation: Tremie

Grout Material/Size: Bentonite slurry

Method of Installation: Pumped w/Tremie pipe

Aquifer Type: GRAVEL & SAND

Total Depth: 81 ft.

Well Use: DOMESTIC

Slot Size: 0.085 in.

Material: PVC

Screen Length: 4 ft.

Vol/Wt Used: 250 LBS.

Placed: FROM: 57 ft. TO: 63 ft.

Vol/Wt Used: 110 GALS. / 300 LBS.

Placed FROM: 57 ft.

WELL TEST DETAILS

Static Water Level: 40 ft.

Drawdown: 10 ft.

Test Rate: 7 gpm

Test Duration: 2 hrs.

[Associated Reports](#)

COMMENTS:

WELL LOG

Formations	From	To
CLAY	0	7
SAND & CLAY	7	27
CLAY & GRAVEL	27	55
GRAVEL & SAND	55	66
CLAY	66	81
WATER AT	59	63

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Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Soil and Water
Phone: 614-265-6740 Fax: 614-265-6767

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Well Log Number: 9912042

ORIGINAL OWNER AND LOCATION

Original Owner Name: L.E. VALLEY DAIRY CO.

County: CLARK

Township: MADRIVER

Address:

City:

State: OH

Location Number: 518

Location Map Year: 1945

Latitude: 39.871993

Longitude: -83.891155

Section Number: 19

Lot Number:

Zip Code:

Location Area:

CONSTRUCTION DETAILS

Borehole Diameter: 1:

Borehole Depth: 1: 210 ft.

Depth to Bedrock:

2:

2:

Casing Diameter: 1: 10 in.

Casing Length: 1: 43 ft.

Casing Thickness: 1:

2:

2:

2:

Casing Height Above Ground:

Aquifer Type: SHALE

Well Use:

Date of Completion: 10/13/1950

Total Depth: 210 ft.

Driller's Name: LAYNE-OHIO, COLS

Screen Diameter:

Slot Size:

Screen Length:

Type:

Material:

Set Between:

Gravel Pack Material/Size:

Vol/Wt Used:

Method of Installation:

Placed:

Grout Material/Size:

Vol/Wt Used:

Method of Installation:

Placed

WELL TEST DETAILS

Static Water Level: 23 ft.

Test Rate: 350 gpm

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Drawdown: 99 ft.

Test Duration:

COMMENTS:

WELL LOG

Formations	From	To
TOP SOIL	0	3
HARDPAN	3	8
MUDDY SAND	8	41
GRAY LIMESTONE	41	55
BREAK	55	56
GRAY SANDY LIMESTONE	56	75
BROWN HARD LIMESTONE	75	85
GRAY LIMESTONE	85	95
BREAK	95	96
GRAY LIMESTONE	96	108
BREAK	108	109
SANDY SHALE	109	116
GRAY LIMESTONE	116	150
BROWN LIMESTONE	150	152
RED HARD LIMESTONE	152	155
BROWN LIMESTONE	155	157
GRAY SANDY LIMESTONE	157	195
CREVICE	195	200
GRAY SANDY SHALE	200	205
MUDDY SHALE	205	210

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