

READING AND UNDERSTANDING WATER WELL RECORDS

Jim Raab

Ohio Department of Natural Resources

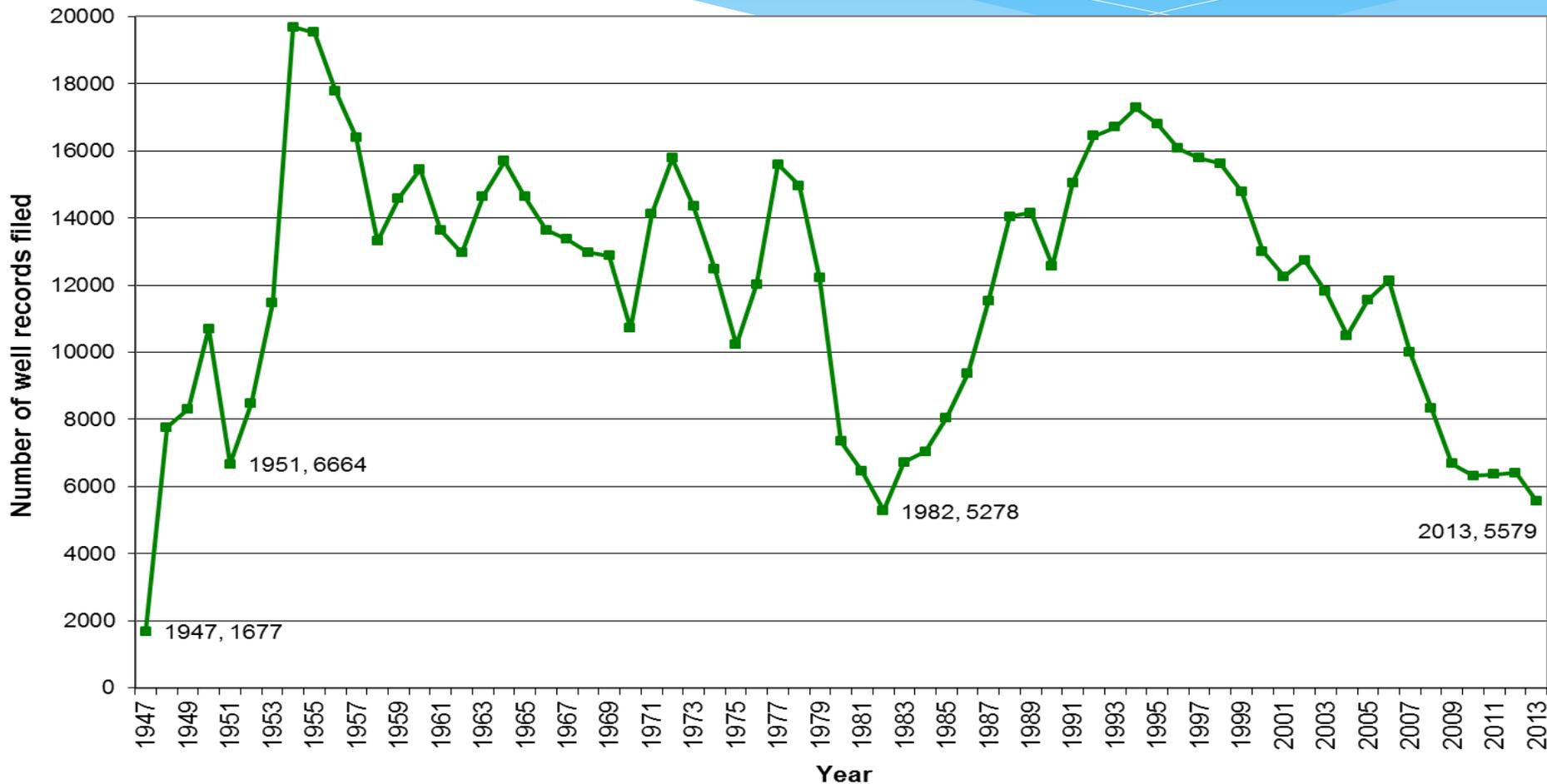
and

Rebecca Fugitt

Ohio Department of Health

Water Well Records

WATER WELL RECORDS FILED WITH ODNR - DIVISION OF SOIL AND WATER RESOURCES



WATER WELL RECORD HISTORY

- * **Have collected over 820,000 records dating back to late 1940's**
- * **Created an in-house database in 1990**
- * **Created first web search screen in 1999**
- * **Started on-line filing of well logs in 2005**
- * **Enhanced the web search features in 2005**
- * **Created Earth Resources Information Network (ERIN) in 2011**

WELLS LOGS OVER TIME

1950

1963

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER

Office No. 1870
Log form No. 55008
Quad. Dublin

Co. Franklin Twp. Sharon Sec. 18

Owner State of Ohio Dept. of Highway
Address Columbus Ohio
Well location At new Roadside Park, 2 mi. N of Worthington at Glen Cherry Hollow

Construction Details	Pumping Test	
	Rate:	✓
Casing: Diam. 4 1/2 length 80	Hrs:	60
Screen:	D. D.	10
Type of pump:	S.L.	12-7-50
Capacity:	Date	
Depth of setting:		

Owner's Well No.
Driller Paul C. Lehman
Located by bls Date

Remarks

STRATA	Depth	
	From	To
Elevation		
top soil & fill	12	12
blue clay	50	50
black or brown shale	50	130
blue shale	130	184
limestone	184	187

T-1855/100
V-107300-N

* Approximate Location

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
1562 W. First Avenue
Columbus, Ohio

No. 268583

PLEASE USE PENCIL OR TYPEWRITER. DO NOT USE INK.

County Williams Township Brady Section of Township 20

Owner Dale Meyers Address West Unity Ohio

Location of property 2 1/2 miles S. of W. Unity on #191

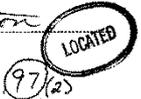
CONSTRUCTION DETAILS	BAILING OR PUMPING TEST
Casing diameter 4" Length of casing 111'	Pumping rate 60 G.P.M. Duration of test 2 hrs.
Type of screen #30 cook Length of screen 3'	Drawdown very little ft. Date March 26, 1963
Type of pump 2 HP 220V Subm.	Developed capacity
Capacity of pump	Static level—depth to water Flowing 3 ft. ft.
Depth of pump setting 21'	Pump installed by Watson Well Drilling
Date of completion March 27 1963	

WELL LOG	SKETCH SHOWING LOCATION																					
Formations Sandstone, shale, limestone, gravel and clay	Locate in reference to numbered State Highways, St. Intersections, County roads, etc.																					
<table border="1"> <thead> <tr> <th>Formations</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td>Top soil</td> <td>0 Feet</td> <td>1 Ft.</td> </tr> <tr> <td>yellow clay</td> <td>1</td> <td>13</td> </tr> <tr> <td>Gray clay</td> <td>13</td> <td>47</td> </tr> <tr> <td>fine sand</td> <td>47</td> <td>101</td> </tr> <tr> <td>Hard pan</td> <td>101</td> <td>105</td> </tr> <tr> <td>Sand & Gravel</td> <td>105</td> <td>114</td> </tr> </tbody> </table> <p>Water at 105'</p>	Formations	From	To	Top soil	0 Feet	1 Ft.	yellow clay	1	13	Gray clay	13	47	fine sand	47	101	Hard pan	101	105	Sand & Gravel	105	114	
Formations	From	To																				
Top soil	0 Feet	1 Ft.																				
yellow clay	1	13																				
Gray clay	13	47																				
fine sand	47	101																				
Hard pan	101	105																				
Sand & Gravel	105	114																				

See reverse side for instructions

Drilling Firm Watson Well Drilling Date March 27, 1963

Address Rt #4 Bryan O. Signed Robert Watson



WELLS LOGS OVER TIME

1981

2012

#08332

WELL LOG AND DRILLING REPORT

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Fountain Square
Columbus, Ohio 43224

599065

COUNTY Medina TOWNSHIP Granger SECTION OF TOWNSHIP _____
OWNER Wayne Homes Inc. #481 ADDRESS 4100 Beachler Road
LOCATION OF PROPERTY 1/2 mile north off St. 94 on Beachler Road

CONSTRUCTION DETAILS		BAILING OR PUMPING TEST (Specify one by circling)	
Casing diameter <u>5 inch</u>	Length of casing <u>198 Ft.</u>	Test rate <u>50</u> gpm	Duration of test <u>2</u> hrs
Type of screen _____	Length of screen _____	Drawdown <u>10</u> ft	Date <u>4/10/81</u>
Type of pump _____	Capacity of pump _____	Static level (depth to water) <u>Flows</u> ft	Quality (clear, cloudy, taste, odor) _____
Depth of pump setting _____	Date of completion _____	Pump installed by _____	

WELL LOG*			SKETCH SHOWING LOCATION	
Formations: sandstone, shale, limestone, gravel, clay	From	To	Locate in reference to numbered state highways, street intersections, etc.	
Brown Clay	0 ft	12 ft		
Gray Clay & Gravel	12 Ft.	41 Ft.		
Gray Clay Sand & Gravel	41 Ft.	98 Ft.		
Sandy Gravel	98 Ft.	110 Ft.		
Gray Clay & Gravel	110 Ft.	119 Ft.		
Sandy Gravel	119 Ft.	126 Ft.		
Brown Clay Sandy Gravel	126 Ft.	131 Ft.		
Gray Clay & Gravel	131 Ft.	168 Ft.		
Sandy Gravel	168 Ft.	176 Ft.		
Clay Sand & Gravel	176 Ft.	198 Ft.		
Gravel	198 Ft.	200 Ft.		

DRILLING FIRM Johnson Hardware Company DATE 4/17/81
ADDRESS Orrville, Ohio SIGNATURE J.F. Ecker

*If additional space is needed to complete well log, use next consecutive numbered form.

ORIGINAL COPY - ODNR, DIVISION OF WATER, FOUNTAIN SQ., COLS., OHIO 43224

WELL LOG AND DRILLING REPORT

ODNR 7802.05e
Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number
2036774

Page 1 of 1 for this record.

WELL LOCATION		CONSTRUCTION DETAILS	
County <u>SUMMIT</u>	Township <u>BATH</u>	Drilling Method <u>CABLE TOOL</u>	
MARK <u>ANDERSON</u>	Owner/Builder _____	BOREHOLE/CASING (Measure of from ground surface)	
1501 SAND RUN RD	Address of Well Location _____	1 Borehole Diameter <u>5</u> inches	Depth <u>122</u> ft.
City <u>AKRON</u>	Zip Code <u>44313</u>	2 Casing Diameter <u>5</u> inches	Length <u>120</u> ft. Thickness <u>0.275</u> in.
Permit No. <u>501586</u>	Section _____ and Lot No. _____	2 Casing Diameter _____ inches	Depth _____ ft.
Use of Well <u>DOMESTIC</u>		Casing Height Above Ground <u>1</u> ft.	
Coordinates of Well (Use only one of the below coordinate systems)		Type 1: <u>Steel</u>	
State Plane Coordinates		2: _____	
N <input type="checkbox"/> X _____ ft.		Joints 1: <u>Threaded</u>	
S <input type="checkbox"/> Y _____ ft.		2: _____	
Latitude, Longitude Coordinates		SCREEN	
Latitude <u>41.15898</u>	Longitude <u>-81.58713</u>	Diameter <u>4</u> in. Slot Size <u>0.03</u> in. Screen Length <u>3</u> ft.	
Elevation of Well in feet <u>954</u>	+/- <u>18</u> ft.	Type <u>CONTINUOUS WIRE WOUND</u> Material <u>STAINLESS STEEL</u>	
Datum Plane: <input type="checkbox"/> NAD27 <input checked="" type="checkbox"/> NAD83	Elevation Source <u>GPS</u>	Set Between <u>122</u> ft. and <u>119</u> ft.	
Source of Coordinates: <u>GPS</u>		GRAVEL PACK (Filter Pack)	
Well location written description		Material _____ Vol/Wt. _____	
<u>.1 MILES SOUTH OF SAND RUN ROAD AND YELLOW CREEK ROAD INTERSECTION ON THE EAST SIDE OF SAND RUN ROAD.</u>		Size _____ Used _____	
		Method of Installation _____	
		Depth Placed From: _____ ft. To: _____ ft.	
		SCREEN	
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CONSTRUCTION DETAILS

e Road, Columbus, Ohio 43229-6605
6740 Fax (614) 265-6767

Page 1 of 1 for this record.

CONSTRUCTION DETAILS

Casing diameter 4" Length of casing 67'
 Type of screen..... Length of screen.....
 Type of pump.....
 Capacity of pump.....
 Depth of pump setting.....

Pur
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 Sta
 Pu

CONSTRUCTION DETAILS

Drilling Method: CABLE TOOL

BOREHOLE/CASING (Measured from ground surface)

1 { Borehole Diameter 6.25 inches Depth 60 ft.
 { Casing Diameter 6.25 in. Length 27.5 ft. Thickness 0.188 in.
 2 { Borehole Diameter _____ inches Depth _____ ft.
 { Casing Diameter _____ in. Length _____ ft. Thickness _____ in.
 Casing Height Above Ground 1 ft.

Type { 1: Steel
 { 2: _____
 Joints { 1: Welded
 { 2: _____

SCREEN

Diameter _____ in. Slot Size _____ in. Screen Length _____ ft.
 Type _____ Material _____
 Set Between _____ ft. and _____ ft.

GRAVEL PACK (Filter Pack)

Material/Size _____ Vol/Wt. Used _____
 Method of Installation _____
 Depth: Placed From: _____ ft. To: _____ ft.

GROUT

Material Bentonite dry granular Vol/Wt. Used 50 lbs
 Method of Installation Dry Driven
 Depth: Placed From: 0 ft. To: 25 ft.

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED

WELL LOG

WELL SEALING REPORTS

- * **ODNR created paper form in 1985**
- * **Created on-line filing of well sealing reports in 2012**
- * **45,000 reports in database**
- * **~20,000 reports to be entered**
- * **Numbers greater than 300,000 were submitted on-line**
- * **Can now search on-line using Custom Data Search page**

ADVANTAGES OF FILING ON-LINE

- * **Data is immediately in ODNR's database**
- * **Data is on-line the next morning**
- * **Records are more complete because of the required fields**
- * **No mailing costs for ODNR and the Driller**
- * **Decreased printing costs for ODNR**

ADVANTAGES OF FILING ON-LINE

(CONTINUED)

- * No data entry errors on ODNR's end**
- * Well records and sealing reports look neat and professional**
- * Driller is able to save the well record or sealing report image on their computer**
- * For Sealing Reports – 80% of the report is filled in if the well log number is entered**

TYPES OF WELL LOG SEARCHES

- * **Custom Data**
- * **Map-based**
- * **Radius**
- * **Area**
- * **Polygon**
- * **County-Township-Road**
- * **Address Search**



Ground Water *Division of Soil & Water Resources* Mapping & Technical Services

- Home
- About Water
- Publications—Maps—Data
- GIS Data
- Well Log Search
- Canals
- Dams
- Education
- Floodplains
- Ground Water
- Water Inventory
- Water Planning

Ground Water

About Ground Water

Contacts & Phone Numbers

Publications of this Program

Mapping

Potentiometric Surface Maps

Statewide Aquifer Maps

Pollution Potential Maps

Ground Water Resources Maps

Technical Services

Well Log Filing

Well Log Searches

Request an Off-line Well Log Search

Well Log Computerization Plans

Nonpoint Source Pollution Investigations

Evaluation of Ground Water

Water Well Log Report On-line Search Tools

NOTE: These services may require the use of JavaScript.
If you are having trouble using a service please make sure that JavaScript has been turned on in your browser.

Choose a Search Method

Customized Data Search

Find Water Well Logs by: Selecting single or multiple database fields to build a unique search.

Address Search

Find a Water Well Log by: County, and Street Address.



Map-based Search

Find Water Well Logs by zooming in to your area of interest.
Some limits apply.

Area Search Radius Area Search Polygon Area Search

Find Water Well Logs by: Entering Latitude Longitude or X,Y Coordinates.
Some limits apply.

County, Township and Road Search

Find Water Well Logs by: County, Township and Road OR Well Log Number.



[Search Water Well Logs](#)



[Dam Safety](#)



[Agricultural Pollution
Abatement](#)



Soil and Water Resources
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[Water Conservation](#) ▼

[Maps](#) ▼

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Ohio SWCD Conservation Farm Family of the Year 2014

3/14/2014 Soil and Water Resources

Nominations are now being accepted for the 2014 Ohio Conservation Farm Family Awards.

[read more...](#)

Soil and Water Resources
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Water Use & Planning ^

Well Logs >

Groundwater

Water Withdrawal

Water Inventory & Levels

Floodplains

Safety v

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Water Well Logs

Search Well Logs/Online Filing

Publications/Resources

+ Filing For Drilling & Sealing Reports

+ Instructions for Online Filing

- Search Water Well Logs

Online Well Searches

Well log records that describe the construction, depth and yield of water wells are maintained. More recent records (since the 1981) may also be filed with the local health district.

▶ [Customized Data Search](#)

Select single or multiple database fields to build a unique query

▶ [Address Search](#)

Select county, and street address

▶ [Map-based Search](#)

Zoom into your area of interest

▶ [Area Search](#)

[Radius Area Search](#)

[Polygon Area Search](#)

Enter latitude, longitude, or X,Y coordinates

▶ [County, Township and Road Search](#)

WEBSITE SEARCH DEMO

- * [Water Well Log search page](#)
- * <http://soilandwater.ohiodnr.gov>

Transition to Rebecca

Well Log Number: Clear All Fields

County 1: --SELECT-- AND Township 1: <input type="text"/>	OR	County 2: --SELECT-- AND Township 2: <input type="text"/>	OR	County 3: --SELECT-- AND Township 3: <input type="text"/>	OR	County 4: --SELECT-- AND Township 4: <input type="text"/>
---	----	---	----	---	----	---

[Township Boundary Maps](#)
 (If uncertain of the township, click the link above.
 These boundaries are matched to DNR well log filing system)

Select up to four streets and house number ranges.
NOTE: It is recommended that you leave the "Street Type" field blank to return the most records for a street name.

Lowest Street Number: <input type="text"/>	Highest Street Number: <input type="text"/>	Street Name: <input type="text"/>	Street Type: --SELECT--
		<input checked="" type="radio"/> Exactly <input type="radio"/> Contains <input type="radio"/> Start with Street Name:	Street Type: --SELECT--
Lowest Street Number: <input type="text"/>	Highest Street Number: <input type="text"/>	Street Name: <input type="text"/>	Street Type: --SELECT--
		<input checked="" type="radio"/> Exactly <input type="radio"/> Contains <input type="radio"/> Start with Street Name:	Street Type: --SELECT--
Lowest Street Number: <input type="text"/>	Highest Street Number: <input type="text"/>	Street Name: <input type="text"/>	Street Type: --SELECT--
		<input checked="" type="radio"/> Exactly <input type="radio"/> Contains <input type="radio"/> Start with Street Name:	Street Type: --SELECT--

To include logs that DO NOT have a Street Number, check this box.

Original Owners LAST Name: <input type="text"/> <input checked="" type="radio"/> Exactly <input type="radio"/> Contains <input type="radio"/> Start with	Original Owners FIRST Name: <input type="text"/> <input checked="" type="radio"/> Exactly <input type="radio"/> Contains <input type="radio"/> Start with
--	---

NOTE: Use of this field may result in a low number of returned records.

Driller: --SELECT--

Well Use: --SELECT--

NOTE: Field is sparsely populated. Use may result in a low number of returned records.

Date of Completion, enter a range of dates: (MM/DD/YYYY)	Beginning Date of Completion: <input type="text"/>	Ending Date of Completion: <input type="text"/>
Pumping Test Rate: Enter a range in Gallons Per Minute	FROM: <input type="text"/> gpm.	TO: <input type="text"/> gpm.
Total Depth of Well(s): Enter a range in feet	FROM: <input type="text"/> ft.	TO: <input type="text"/> ft.
Original Static Water Level of well(s): Enter a range in feet	FROM: <input type="text"/> ft.	TO: <input type="text"/> ft.

For Flowing Wells Only, check this box.

Aquifer Type 1 --SELECT--	OR	Aquifer Type 2 --SELECT--
Geologic Formation Type Geo Type 1 Geo Type 2		

WELL LOG AND DRILLING REPORT

Well Log Number

DNR 7802.05e

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

2041081

Page 1 of 1 for this record.

WELL LOCATION	CONSTRUCTION DETAILS																																																		
County <u>FRANKLIN</u> Township <u>PLEASANT</u>	Drilling Method: <u>ROTARY</u>																																																		
<u>JERELL</u> <u>HASS</u> Owner/Builder	BOREHOLE/CASING (Measured from ground surface)																																																		
<u>4590 SR 665</u> Address of Well Location	1 { Borehole Diameter <u>7.88</u> inches Depth <u>180</u> ft. Casing Diameter <u>5</u> in. Length <u>121</u> ft. Thickness <u>0.265</u> in.																																																		
City <u>GROVE CITY</u> Zip Code +4 <u>43123</u>	2 { Borehole Diameter _____ inches Depth _____ ft. Casing Diameter _____ in. Length _____ ft. Thickness _____ in.																																																		
Permit No. <u>2012-175</u> Section; _____ and/or Lot No. _____	Casing Height Above Ground <u>1.2</u> ft.																																																		
Use of Well <u>DOMESTIC</u>	Type { 1: <u>PVC</u> 2: _____																																																		
Coordinates of Well (Use only one of the below coordinate systems)	Joints { 1: <u>Solvent</u> 2: _____																																																		
State Plane Coordinates	SCREEN																																																		
N <input type="checkbox"/> X _____ +/- _____ ft.	Diameter _____ in. Slot Size _____ in. Screen Length _____ ft.																																																		
S <input type="checkbox"/> Y _____ +/- _____ ft.	Type _____ Material _____																																																		
Latitude, Longitude Coordinates	Set Between _____ ft. and _____ ft.																																																		
Latitude: <u>39.84425</u> Longitude: <u>-83.12945</u>	GRAVEL PACK (Filter Pack)																																																		
Elevation of Well in feet: <u>895</u> +/- _____ ft.	Material/Size _____ Vol./Wt. Used _____																																																		
Datum Plane: <input type="checkbox"/> NAD27 <input checked="" type="checkbox"/> NAD83 Elevation Source <u>GPS</u>	Method of Installation _____																																																		
Source of Coordinates: <u>GPS</u>	Depth: Placed From: _____ ft. To: _____ ft.																																																		
Well location written description:	GROUT																																																		
	Material <u>Bentonite/polymer slurry</u> Vol./Wt. Used <u>162/450#</u>																																																		
	Method of Installation <u>Pumped w/Tremie pipe</u>																																																		
	Depth: Placed From: <u>121</u> ft. To: <u>0</u> ft.																																																		
Comments on water quality/quantity and well construction: <u>WELL DRILLED BY MARK CANTRELL #2859</u>	DRILLING LOG*																																																		
	FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.																																																		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Color</th> <th>Texture</th> <th>Formation</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>CLAY & GRAVEL</td> <td>0</td> <td>13</td> </tr> <tr> <td></td> <td></td> <td>SAND AND GRAVEL</td> <td>13</td> <td>20</td> </tr> <tr> <td></td> <td></td> <td>CLAY & GRAVEL</td> <td>20</td> <td>40</td> </tr> <tr> <td></td> <td></td> <td>SAND AND GRAVEL</td> <td>40</td> <td>41</td> </tr> <tr> <td></td> <td></td> <td>CLAY</td> <td>41</td> <td>90</td> </tr> <tr> <td></td> <td></td> <td>CLAY & GRAVEL</td> <td>90</td> <td>107</td> </tr> <tr> <td></td> <td>BROKEN</td> <td>LIMESTONE</td> <td>107</td> <td>117</td> </tr> <tr> <td></td> <td></td> <td>LIMESTONE</td> <td>117</td> <td>180</td> </tr> <tr> <td></td> <td></td> <td>Water Encountered At</td> <td>117</td> <td>180</td> </tr> </tbody> </table>	Color	Texture	Formation	From	To			CLAY & GRAVEL	0	13			SAND AND GRAVEL	13	20			CLAY & GRAVEL	20	40			SAND AND GRAVEL	40	41			CLAY	41	90			CLAY & GRAVEL	90	107		BROKEN	LIMESTONE	107	117			LIMESTONE	117	180			Water Encountered At	117	180
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		LIMESTONE	117	180																																															
		Water Encountered At	117	180																																															
WELL TEST *																																																			
Pre-Pumping Static Level <u>100</u> ft. Date <u>11/30/2012</u>																																																			
Measured from <u>GROUND LEVEL</u>																																																			
Pumping test method <u>PUMPING</u>																																																			
Test Rate <u>25</u> gpm Duration of Test <u>1</u> hrs.																																																			
Feet of Drawdown <u>6</u> ft. Sustainable Yield <u>25</u> gpm																																																			
*(Attach a copy of the pumping test record, per section 1521.05, ORC)																																																			
Is Copy Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flowing Well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																																																			
PUMP/PITLESS																																																			
Type of pump <u>SUBMERSIBLE</u> Capacity <u>12</u> gpm																																																			
Pump set at <u>115</u> ft. Pitless Type <u>ADAPTER</u>																																																			
Pump installed by <u>R.C. BARRY</u>																																																			

WELL LOG AND DRILLING REPORT

TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road
Columbus, Ohio 43229-6605 Voice (614) 265-6740 Fax (614) 265-6767

1008690

WELL LOCATION	CONSTRUCTION DETAILS
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County FRANKLIN Township JACKSON

Owner/Builder RON BURKE STABLES
(Circle One or Both) First Last

Address of Well Location 875 ST. RT 665
Number Street Name

City GROVE CITY, OH. Zip Code +4 43123

Permit No. 2007-167 Section/Lot No. _____
(Circle One or Both)

Location of Well in State Plane coordinates, if available: Use of Well DOMESTIC

N X _____ +/- _____ ft. or m

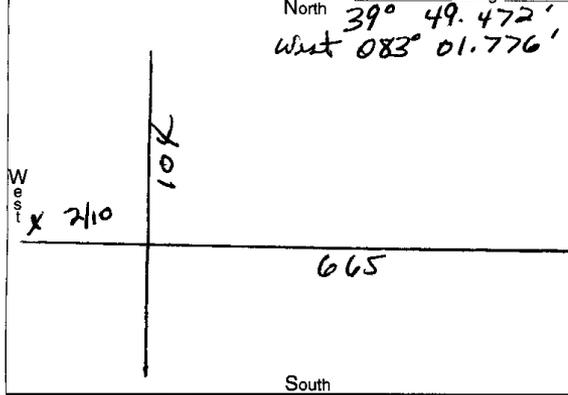
S Y _____ +/- _____ ft. or m

Elevation of Well 721.5' +/- _____ ft. or m

Datum Plain: NAD27 NAD83 Elevation Source GPS

Source of Coordinates: GPS Survey Other

Sketch a map showing distance well lies from numbered state highways, street intersections, county roads, buildings or other notable landmarks. If latitude and longitude are available please include here: Lat: _____ Long: _____



WELL TEST*

Pre-Pumping Static Level 31 ft. Date 10-16-07

Measured from: Top of Casing Ground Level Other

Air Bailing Pumping* Other

Test Rate 40+ gpm Duration of Test 1 hrs.

Feet of Drawdown 0 ft. Sustainable Yield 40+ gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? Yes No Flowing Well? Yes No

Quality CLEAR

PUMP/PITLESS

Type of pump Submersible Capacity 1/2HP OWNERS gpm

Pump set at 45 ft. Pitless Type ADAPTER

Pump installed by R.C. BARRY

Rotary Cable Augered Driven Other

BOREHOLE/CASING (measured from ground surface)

1 Borehole Diameter 7 7/8 inches Depth 65 ft.

Casing Diameter 5 in. Length 65 ft. Thickness SDR 21 in.

2 Borehole Diameter _____ inches Depth _____ ft.

Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 15" ft.

Type 1 Steel 1 Galv. 1 PVC 1

2 Steel 2 Galv. 2 PVC 2 Other

Joints 1 Threaded 1 Welded 1 Solvent 1

2 Threaded 2 Welded 2 Solvent 2 Other

SCREEN

Diameter 5 Slot Size 50 Screen Length 3 ft.

Type PVC Material PVC

Set Between 61 ft. and 64 ft.

GRAVEL PACK (Filter Pack)

Material/Size #4 SAND Volume/Weight Used 400 #

Method of Installation _____

Depth: Placed FROM 57 ft. TO 64 ft.

GROUT

Material BENSEAL+EZMud Volume/Weight Used 72 gal water / 200 #

Method of Installation TREMIE PIPE

Depth: Placed FROM 57 ft. TO SURFACE ft.

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc.

	From	To
CLAY + GRAVEL	0	23
SAND + GRAVEL	23	41
SAND	41	43
CLAY, SAND, GRAVEL	43	53
SAND + GRAVEL	53	65

Water Encountered at 65'

WELL LOG AND DRILLING REPORT

DNR 7802.05e

Ohio Department of Natural Resources
Division of Water, 2045 Morse Road, Columbus, Ohio 43229-6605
Voice (614) 265-6740 Fax (614) 265-6767

Well Log Number

2034247

Page 1 of 1 for this record.

WELL LOCATION	CONSTRUCTION DETAILS
---------------	----------------------

County FRANKLIN Township JACKSON

ROSEMARY NOBLE
Owner/Builder

6799 SR JACKSON PIKE 104
Address of Well Location

City GROVE CITY Zip Code +4 43123

Permit No. 2011-92 Section; _____ and/or Lot No. _____

Use of Well DOMESTIC

Coordinates of Well (Use only one of the below coordinate systems)
State Plane Coordinates
 N X _____ +/- _____ ft.
 S Y _____ +/- _____ ft.
 Latitude, Longitude Coordinates
 Latitude: 39.8216 Longitude: -83.033633

Elevation of Well in feet: 697 +/- _____ ft.

Datum Plane: NAD27 NAD83 Elevation Source GPS

Source of Coordinates: GPS

Drilling Method: ROTARY

BOREHOLE/CASING (Measured from ground surface)

1 { Borehole Diameter 7.88 inches Depth 102 ft.
 Casing Diameter 5 in. Length 102 ft. Thickness 0.265 in.

2 { Borehole Diameter _____ inches Depth _____ ft.
 Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 1.2 ft.

Type { 1: PVC
 2: _____

Joints { 1: Solvent
 2: _____

SCREEN

Diameter 5 in. Slot Size 0.032 in. Screen Length 101 ft.

Type MACHINE SLOTTED Material PVC

Set Between 99 ft. and 101 ft.

GRAVEL PACK (Filter Pack)

Material/Size #4 SAND Vol/Wt. Used 400#

Method of Installation Tremie

Depth: Placed From: 95 ft. To: 101 ft.

Well location written description:

GROUT

Material Bentonite/polymer slurry Vol/Wt. Used 120GAL/300#

Method of Installation Pumped w/Tremie pipe

Depth: Placed From: 95 ft. To: 0 ft.

Comments on water quality/quantity and well construction:
WELL DRILLED BY MARK CANTRELL #2859

DRILLING LOG*

FORMATIONS INCLUDE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

Color	Texture	Formation	From	To
		CLAY & GRAVEL	0	17
		SAND AND GRAVEL	17	20
		CLAY & GRAVEL	20	26
		SAND AND GRAVEL	26	30
		SAND	30	36
		CLAY AND BOULDERS	36	40
		CLAY	40	99
	BROKEN	LIMESTONE	99	100
		LIMESTONE	100	102

WELL TEST *

Pre-Pumping Static Level 20 ft. Date 8/15/2011

Measured from GROUND LEVEL

Pumping test method PUMPING

Test Rate 50 gpm Duration of Test 1 hrs.

Feet of Drawdown 0 ft. Sustainable Yield 50 gpm

*(Attach a copy of the pumping test record, per section 1521.05, ORC)

Is Copy Attached? Yes No Flowing Well? Yes No

PUMP/PITLESS

Type of pump SUBMERSIBLE Capacity 12 gpm

Pump set at 50 ft. Pitless Type ADAPTER

Pump installed by R.C. BARRY

I hereby certify the information given is accurate and correct to the best of my knowledge.

Color	Texture	Formation	From	To
		Water Encountered At	100	102

CONSTRUCTION DETAILS

Rotary Cable Augered Driven Other

BOREHOLE/CASING (measured from ground surface)

1 Borehole Diameter 8 1/2 inches Depth 67 ft.
Casing Diameter 5 in. Length 63 ft. Thickness SDA-21 in.
2 Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.
Casing Height Above Ground 12" ft.

Type 1 Steel 1 Galv. 1 PVC 1 _____
 2 2 2 _____ 2 Other _____
Joints 1 Threaded 1 Welded 1 Solvent 1 _____
 2 2 2 _____ 2 Other _____

SCREEN

Diameter 5" Slot Size 1035 Screen Length 4 ft.
Type slotted Material PVC
Set Between 63 ~~83~~ ft. and 67 ft.

GRAVEL PACK (Filter Pack)

Material/Size Taped #5 Volume/Weight Used 200#
Method of Installation tremie pipe
Depth: Placed FROM 61 ft. TO 67 ft.

GROUT

Material slurry mix Volume/Weight Used 350#
Method of Installation tremie pipe
Depth: Placed FROM 61 ft. TO surface ft.
18 gallons per 50# grout + 10 oz polymer

DRILLING LOG*

INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED.

CONSTRUCTION DETAILS

Drilling Method: ROTARY

BOREHOLE/CASING (Measured from ground surface)

1 { Borehole Diameter 8.5 inches Depth 113 ft.
Casing Diameter 5 in. Length 113 ft. Thickness 0.265 in.

2 { Borehole Diameter 4.75 inches Depth 125 ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 1 ft.

Type { 1: PVC
2: _____

Joints { 1: Solvent
2: _____

SCREEN

Diameter _____ in. Slot Size _____ in. Screen Length _____ ft.

Type _____ Material _____

Set Between _____ ft. and _____ ft.

GRAVEL PACK (Filter Pack)

Material/Size _____ Vol/Wt. Used _____

Method of Installation _____

Depth: Placed From: _____ ft. To: _____ ft.

GROUT

Material Bentonite slurry Vol/Wt. Used 18GAL-50#/600#

Method of Installation Pumped w/Tremie pipe

Depth: Placed From: 113 ft. To: 0 ft.

CONSTRUCTION DETAILS

Drilling Method: ROTARY

BOREHOLE/CASING (Measured from ground surface)

1 { Borehole Diameter 7.88 inches Depth 122 ft.
Casing Diameter 5 in. Length 87 ft. Thickness 0.265 in.

2 { Borehole Diameter _____ inches Depth _____ ft.
Casing Diameter _____ in. Length _____ ft. Thickness _____ in.

Casing Height Above Ground 1.2 ft.

Type { 1: PVC
2: _____

Joints { 1: Solvent
2: _____

SCREEN

Diameter _____ in. Slot Size _____ in. Screen Length _____ ft.

Type _____ Material _____

Set Between _____ ft. and _____ ft.

GRAVEL PACK (Filter Pack)

Material/ Size _____ Vol/Wt. Used _____

Method of Installation _____

Depth: Placed From: _____ ft. To: _____ ft.

GROUT

Material Bentonite/polymer slurry Vol/Wt. Used 114GAL/300#

Method of Installation Pumped w/Tremie pipe

Depth: Placed From: 87 ft. To: 0 ft.

