

WELL LOG AND DRILLING REPORTTYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARDOhio Department of Natural Resources
Division of Water, 2045 Morse Road

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

1013886

WELL LOCATION

County COLUMBIANA Township KNOX

Owner/Builder (Circle One or Both) ED WARTWORTH

Address of Well Location 22647 Buck Rd

City Alliance Zip Code +4 44601

Permit No. 8958 Section/Lot No. (Circle One or Both) 18

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

N ☐ X N40°52'33" +/- 14 ft. or m

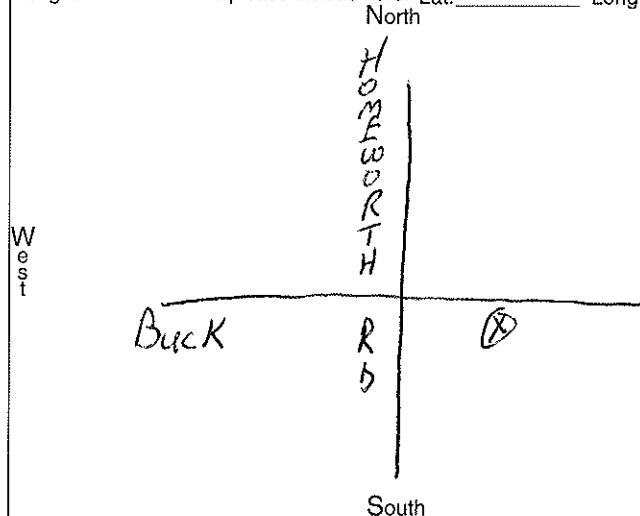
S ☐ Y W081°11'43" +/- 14 ft. or m

Elevation of Well 114.391 ft. or m

Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source RES

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 60' ft. Date OCT 1 2014

Measured from: ☒ Top of Casing ☐ Ground Level ☐ Other

☒ Air ☐ Bailing ☐ Pumping* ☐ Other

Test Rate 7 gpm Duration of Test 1/2 hrs.

Feet of Drawdown _____ ft. Sustainable Yield _____ gpm

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

Is Copy Attached? ☐ Yes ☐ No Flowing Well? ☐ Yes ☐ No

Quality _____

PUMP/PITLESS

Type of pump Grundfos 7505-11 Capacity 7 gpm

Pump set at 110 ft. Pitless Type Simmons 1840

Pump installed by Palmer

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

Drilling Firm Palmer Drilling Inc

Address 3480 S Union

City, State, Zip Alliance OH 44601

Signed Roger Palmer Date OCT 1 2014

ODH Registration Number 80

CONSTRUCTION DETAILS

☒ Rotary ☒ Cable ☐ Augered ☐ Driven ☐ Other

BOREHOLE/CASING (measured from ground surface)

1 ☐ Borehole Diameter 10 inches Depth 10 ft.

Casing Diameter 7 in. Length 77'9" ft. Thickness .250 in.

2 ☐ Borehole Diameter 6 1/4 inches Depth 142 1/2 ft.

Casing Diameter 4 in. Length 136 1/2 ft. Thickness .58321 in.

Casing Height Above Ground 17" ft.

Type 1 ☒ Steel 1 ☐ Galv. 1 ☐ PVC 1 ☐ Other

2 ☐ Steel 2 ☐ Galv. 2 ☒ PVC 2 ☐ Other

Joints 1 ☐ Threaded 1 ☒ Welded 1 ☐ Solvent 1 ☐ Other

2 ☐ Threaded 2 ☐ Welded 2 ☒ Solvent 2 ☐ Other

SCREEN

Diameter _____ Slot Size _____ Screen Length _____ ft.

Type _____ Material _____

Set Between _____ ft. and _____ ft.

GRAVEL PACK (Filter Pack)

Material/Size _____ Volume/Weight Used _____

Method of Installation _____

Depth: Placed FROM _____ ft. TO _____ ft.

GROUT

Material BENSEAL Volume/Weight Used 6 bags

Method of Installation DRY DRIVEN

Depth: Placed FROM 0 ft. TO 77 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
<u>BROWN SANDY CLAY</u>		<u>0</u>	<u>10</u>
<u>GRAY GRAVELY CLAY</u>		<u>10</u>	<u>58</u>
<u>LIME BOULSERS + CLAY</u>		<u>58</u>	<u>60</u>
<u>GRAY CLAY</u>		<u>60</u>	<u>65</u>
<u>FRACTURED LIME</u>		<u>65</u>	<u>66</u>
<u>SOFT SHALE</u>		<u>66</u>	<u>73</u>
<u>GRAY SANDY SHALE + SHALE</u>		<u>73</u>	<u>88</u>
<u>DARK GRAY SANDY SHALE</u>		<u>88</u>	<u>103</u>
<u>COAL</u>		<u>103</u>	<u>106</u>
<u>SOFT CLAY</u>		<u>106</u>	<u>114</u>
<u>GRAY SANDY SHALE</u>		<u>114</u>	<u>133</u>
<u>DARK SHALE</u>		<u>133</u>	<u>138</u>
<u>COAL</u>		<u>138</u>	<u>141</u>
<u>SOFT GRAY SHALE</u>		<u>141</u>	<u>142 1/2</u>

*(If more space is needed to complete drilling log, use next consecutively numbered form.)

Date of Well Completion OCT 1 2014 Total Depth of Well 142 1/2 ft.