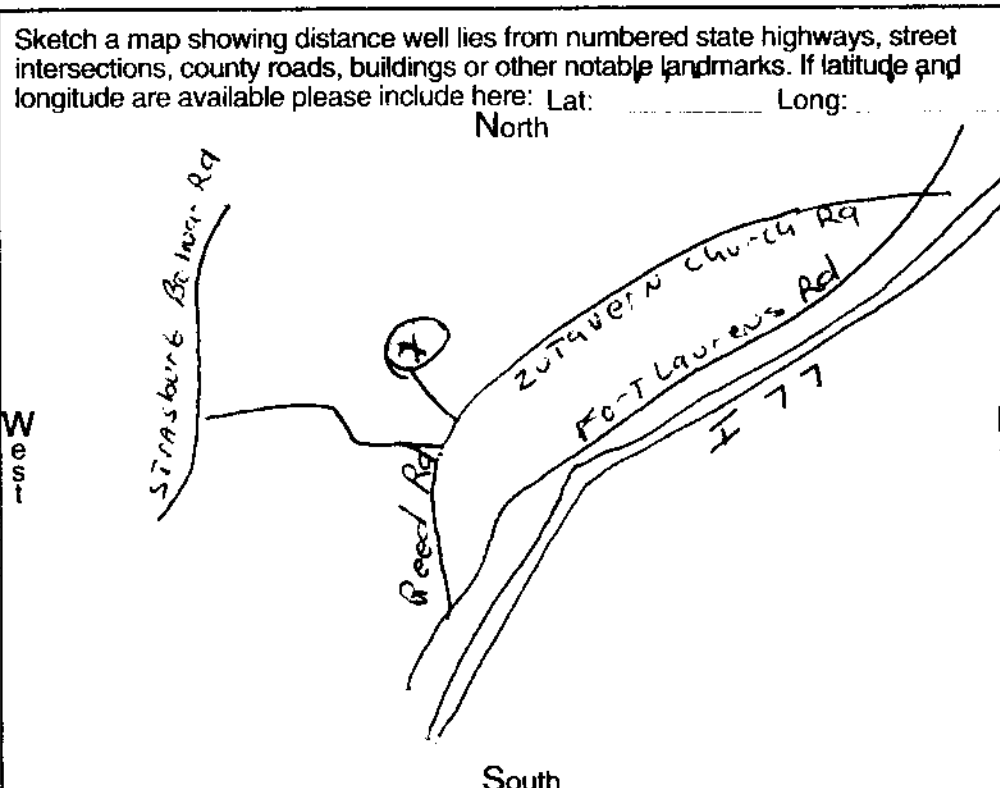


TYPE OR USE PEN
SELF TRANSCRIBING
PRESS HARD

WELL LOG AND DRILLING REPORT

Ohio Department of Natural Resources
Division of Water, 1939 Fountain Square Drive
Columbus, Ohio 43224-9971 Voice (614) 265-6739 Fax (614) 447-9503

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WELL LOCATION		CONSTRUCTION DETAILS																																																																																		
County TUSCARAWAS Township LAWRENCE Builder _____ Owner/Builder BLACKHAWK DEVELOPMENT INC. (Circle One or Both) First _____ Last _____ Address of Well Location 2718 ZUTAVERN Church Rd Number _____ Street Name _____ City STRASBURG Zip Code +4 44680 Permit No. 217233 Section/Lot No. 15 (Circle One or Both) Section _____ Location of Well in State Plane coordinates, if available: N ☐ X ☒ Use of Well DOMESTIC S ☐ Y ☐ 0.00 +/- ft. or m 0.00 +/- ft. or m 0.00 +/- ft. or m Elevation of Well _____ Datum Plain: ☐ NAD27 ☐ NAD83 Elevation Source _____ Source of Coordinates: ☐ GPS ☐ Survey ☒ Other		☒ Rotary ☐ Cable ☐ Augered ☐ Driven ☐ Other BOREHOLE/CASING (measured from ground surface) 1 ☒ Borehole Diameter 8 inches Depth 418 ft. Casing Diameter 5 in. Length 240 ft. Thickness SDR17 in. 2 ☒ Borehole Diameter 5 inches Depth 60 ft. Casing Diameter 5 in. Length 180 ft. Thickness SDR21 in. Casing Height Above Ground 2 ft. Type 1 ☐ Steel 1 ☐ Galv. 1 ☒ PVC 1 ☐ Other 2 ☐ 2 ☐ 2 ☐ 2 ☐ Other Joints 1 ☐ Threaded 1 ☐ Welded 1 ☒ Solvent 1 ☐ Other 2 ☐ 2 ☐ 2 ☒ 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 1200# Method of Installation PUMP/TREMIE Depth: Placed FROM 418 ft. TO TOP ft.																																																																																		
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: _____ 		DRILLING LOG* INDICATE DEPTH(S) AT WHICH WATER IS ENCOUNTERED. Show color, texture, hardness, and formation: sandstone, shale, limestone, gravel, clay, sand, etc. <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">From</th> <th style="text-align: center;">To</th> </tr> </thead> <tbody> <tr><td>BROWN SHALE</td><td style="text-align: center;">0</td><td style="text-align: center;">18</td></tr> <tr><td>BROWN SANDROCK</td><td style="text-align: center;">18</td><td style="text-align: center;">24</td></tr> <tr><td>SANDY SHALE W/ SANDROCK STREAKS</td><td style="text-align: center;">24</td><td style="text-align: center;">70</td></tr> <tr><td>LIMESTONE</td><td style="text-align: center;">70</td><td style="text-align: center;">72</td></tr> <tr><td>COAL</td><td style="text-align: center;">72</td><td style="text-align: center;">73</td></tr> <tr><td>CLAY</td><td style="text-align: center;">73</td><td style="text-align: center;">74</td></tr> <tr><td>SANDROCK</td><td style="text-align: center;">74</td><td style="text-align: center;">130</td></tr> <tr><td>GRAY SHALE</td><td style="text-align: center;">130</td><td style="text-align: center;">135</td></tr> <tr><td>GRAY SANDROCK</td><td style="text-align: center;">135</td><td style="text-align: center;">160</td></tr> <tr><td>SANDY SHALE</td><td style="text-align: center;">160</td><td style="text-align: center;">185</td></tr> <tr><td>CLAY</td><td style="text-align: center;">185</td><td style="text-align: center;">190</td></tr> <tr><td>GRAY SHALE SOFT</td><td style="text-align: center;">190</td><td style="text-align: center;">200</td></tr> <tr><td>LIGHT SANDY SHALE</td><td style="text-align: center;">200</td><td style="text-align: center;">205</td></tr> <tr><td>SANDY SHALE / CLAY STREAKS</td><td style="text-align: center;">205</td><td style="text-align: center;">230</td></tr> <tr><td>GRAY SANDROCK</td><td style="text-align: center;">230</td><td style="text-align: center;">235</td></tr> <tr><td>DARK SANDY SHALE</td><td style="text-align: center;">235</td><td style="text-align: center;">265</td></tr> <tr><td>LIMESTONE</td><td style="text-align: center;">265</td><td style="text-align: center;">266</td></tr> <tr><td>DARK SHALE</td><td style="text-align: center;">266</td><td style="text-align: center;">270</td></tr> <tr><td>LIMESTONE</td><td style="text-align: center;">270</td><td style="text-align: center;">272</td></tr> <tr><td>DARK SHALE</td><td style="text-align: center;">272</td><td style="text-align: center;">315</td></tr> <tr><td>SANDROCK</td><td style="text-align: center;">315</td><td style="text-align: center;">320</td></tr> <tr><td>DARK SANDY SHALE</td><td style="text-align: center;">320</td><td style="text-align: center;">360</td></tr> <tr><td>SANDROCK</td><td style="text-align: center;">360</td><td style="text-align: center;">375</td></tr> <tr><td>SANDY SHALE</td><td style="text-align: center;">375</td><td style="text-align: center;">400</td></tr> <tr><td>WHITE SANDROCK</td><td style="text-align: center;">400</td><td style="text-align: center;">478</td></tr> <tr><td>MADE WATER AT 430 ON</td><td></td><td></td></tr> </tbody> </table>			From	To	BROWN SHALE	0	18	BROWN SANDROCK	18	24	SANDY SHALE W/ SANDROCK STREAKS	24	70	LIMESTONE	70	72	COAL	72	73	CLAY	73	74	SANDROCK	74	130	GRAY SHALE	130	135	GRAY SANDROCK	135	160	SANDY SHALE	160	185	CLAY	185	190	GRAY SHALE SOFT	190	200	LIGHT SANDY SHALE	200	205	SANDY SHALE / CLAY STREAKS	205	230	GRAY SANDROCK	230	235	DARK SANDY SHALE	235	265	LIMESTONE	265	266	DARK SHALE	266	270	LIMESTONE	270	272	DARK SHALE	272	315	SANDROCK	315	320	DARK SANDY SHALE	320	360	SANDROCK	360	375	SANDY SHALE	375	400	WHITE SANDROCK	400	478	MADE WATER AT 430 ON		
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WELL TEST* Pre-Pumping Static Level 290 ft. Date 11/26/97 Measured from: ☐ Top of Casing ☒ Ground Level ☐ Other _____ ☐ Air ☒ Bailing ☐ Pumping* ☐ Other _____ Test Rate 15 gpm Duration of Test 1 hrs. Feet of Drawdown 70 ft. Sustainable Yield 0 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, 5 GR. HARD, 8 PH, 1.5 PPM IRON																																																																																				
PUMP/PITLESS Type of pump SUBMERSIBLE Capacity 10 gpm Pump set at 400 ft. Pitless Type ADAPTER Pump installed by R.G. STOCKERT DRILLING CO. I hereby certify the information given is accurate and correct to the best of my knowledge. Drilling Firm R. G. STOCKERT DRILLING COMPANY Address 9654 St. Rt. 250NW, Box 27 City, State, Zip Strasburg, OH 44680 Signed <i>Reginald S. Stockert</i> Date 12/12/97 ODH Registration Number 0994		Date of Well Completion 11/26/97 Total Depth of Well 478 ft. *(If more space is needed to complete drilling log, use next consecutively numbered form.)																																																																																		