

756527

County Washington
Quad Lake Elmo
Quad ID 102B

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date02/21/2013
Update Date06/28/2013
Received Date03/06/2013

Well Name TERNES, JAMES					Township 29	Range 21	Dir W	Section 23	Subsection ABABAC	Well Depth 400 ft.				Depth Completed 400 ft.				Date Well Completed 02/27/2013																																																											
Elevation 936 ft.					Elev. Method 7.5 minute topographic map (+/- 5 feet)					Drill Method Non-specified Rotary				Drill Fluid Other																																																															
Address C/W 3000 KLONDIKE AV N LAKE ELMO MN 55042										Use domestic				Status Active																																																															
Stratigraphy Information <table><thead><tr><th>Geological Material</th><th>From</th><th>To (ft.)</th><th>Color</th><th>Hardness</th></tr></thead><tbody><tr><td>CLAY ROCK</td><td>0</td><td>35</td><td>BROWN</td><td>SOFT</td></tr><tr><td>SAND ROCK</td><td>35</td><td>36</td><td>BRN/YEL</td><td>SOFT</td></tr><tr><td>SAND ROCK</td><td>36</td><td>73</td><td>BRN/YEL</td><td>SOFT</td></tr><tr><td>BROKEN LIME</td><td>73</td><td>80</td><td>BRN/YEL</td><td>MEDIUM</td></tr><tr><td>LIME ROCK</td><td>80</td><td>210</td><td>YELLOW</td><td>MEDIUM</td></tr><tr><td>SANDROCK</td><td>210</td><td>226</td><td>GRAY</td><td>HARD</td></tr><tr><td>SANDROCK</td><td>226</td><td>293</td><td>GRAY</td><td>HARD</td></tr><tr><td>LIMEROCK</td><td>293</td><td>315</td><td>GRAY</td><td>HARD</td></tr><tr><td>LIMEROCK</td><td>315</td><td>341</td><td>GRAY</td><td>HARD</td></tr><tr><td>SANDROCK</td><td>341</td><td>342</td><td>GRAY</td><td>HARD</td></tr><tr><td>SANDROCK</td><td>342</td><td>400</td><td>GRAY</td><td>HARD</td></tr></tbody></table>										Geological Material	From	To (ft.)	Color	Hardness	CLAY ROCK	0	35	BROWN	SOFT	SAND ROCK	35	36	BRN/YEL	SOFT	SAND ROCK	36	73	BRN/YEL	SOFT	BROKEN LIME	73	80	BRN/YEL	MEDIUM	LIME ROCK	80	210	YELLOW	MEDIUM	SANDROCK	210	226	GRAY	HARD	SANDROCK	226	293	GRAY	HARD	LIMEROCK	293	315	GRAY	HARD	LIMEROCK	315	341	GRAY	HARD	SANDROCK	341	342	GRAY	HARD	SANDROCK	342	400	GRAY	HARD	Well Hydrofractured? Yes ☐ No ☒				From To			
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Casing Type Single casing				Joint Welded																																																																									
Drive Shoe? Yes ☒ No ☐				Above/Below																																																																									
Casing Diameter 4 in. To 374 ft.				Weight 10.79 lbs./ft.				Hole Diameter 12 in. To 80 ft.																																																																					
								8 in. To 374 ft.																																																																					
								4 in. To 400 ft.																																																																					
Open Hole From 374 ft. To 400 ft.																																																																													
Screen? ☐										Type Make																																																																			
Static Water Level 100 ft. top of casing above LSD Measure 02/22/2013																																																																													
Pumping Level (below land surface) 157 ft. 2 hrs. Pumping at 30 g.p.m.																																																																													
Wellhead Completion Pitless adapter manufacturer MAASS Model 4J1 ☐ Casing Protection ☒ 12 in. above grade ☐ At-grade (Environmental Wells and Borings ONLY)																																																																													
Grouting Information Well Grouted? ☒ Yes ☐ No ☐ Not Specified Material Amount From To neat cement 160 Sacks ft. 374 ft.																																																																													
Nearest Known Source of Contamination 70 feet East Direction Septic tank/drain field Type Well disinfected upon completion? ☒ Yes ☐ No																																																																													
Pump ☐ Not Installed Date Installed 02/27/2013 Manufacturer's name GRUNDFOS Model Number 22SQE15 HP 1.5 Volt 230 Length of drop pipe 147 ft Capacity 20 g.p. Typ Submersible																																																																													
Abandoned Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No																																																																													
Variance Was a variance granted from the MDH for this well? ☐ Yes ☒ No																																																																													
Miscellaneous First Bedrock St.Peter Sandstone Aquifer Tunnel City Last Strat Tunnel City Group Depth to Bedrock 36 ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or System UTM - NAD83, Zone 15, Meters X 508678 Y 4982086 Unique Number Verification Information from Input Date 02/21/2013																																																																													
Angled Drill Hole																																																																													
Well Contractor Mantyla Well Drilling, Inc. 1394 RICHARD/ROB Licensee Business Lic. or Reg. No. Name of Driller																																																																													

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