

144407

County St. Louis
Quad Adolph
Quad ID 245D

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

Entry Date 02/22/1988
Update Date 11/05/2018
Received Date

Well Name FLEICHER,	Township 50	Range 16	Dir Section W 15	Subsection ADDDAA	Well Depth 128 ft.	Depth Completed 128 ft.	Date Well Completed 07/07/1979																																			
Elevation 1388	Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Air Rotary	Drill Fluid																																			
Address Well 4213 MUNGER SHAW RD CLOQUET MN 55720					Use domestic	Status Active																																				
Stratigraphy Information <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>CLAY & GRAVEL</td><td>0</td><td>8</td><td>RED</td><td>MEDIUM</td></tr><tr><td>GRAVEL</td><td>8</td><td>20</td><td>BROWN</td><td>M.HARD</td></tr><tr><td>CLAY & GRAVEL</td><td>20</td><td>45</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>GRAVEL</td><td>45</td><td>46</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>CLAY & GRAVEL</td><td>46</td><td>122</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>GRAVEL</td><td>122</td><td>128</td><td>DK. BRN</td><td>MEDIUM</td></tr></table>					Geological Material	From	To (ft.)	Color	Hardness	CLAY & GRAVEL	0	8	RED	MEDIUM	GRAVEL	8	20	BROWN	M.HARD	CLAY & GRAVEL	20	45	BROWN	MEDIUM	GRAVEL	45	46	BROWN	MEDIUM	CLAY & GRAVEL	46	122	BROWN	MEDIUM	GRAVEL	122	128	DK. BRN	MEDIUM	Well Hydrofractured? Yes ☐ No ☐ From To		
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					Casing Type Single casing Joint Other																																					
					Drive Shoe? Yes ☐ No ☐ Above/Below																																					
Casing Diameter Weight Hole Diameter 6 in. To 128 ft. 19.45 lbs./ft. 8.5 in. To 128 ft.																																										
Open Hole From 128 ft. To 128 ft.																																										
Screen? ☐ Type Make																																										
Static Water Level																																										
Pumping Level (below land surface) 127 ft. 1 hrs. Pumping at 50 g.p.m.																																										
Wellhead Completion Pitless adapter manufacturer Model ☐ Casing Protection ☒ 12 in. above grade ☐ At-grade (Environmental Wells and Borings ONLY)																																										
Grouting Information Well Grouted? ☐ Yes ☒ No ☐ Not Specified																																										
Nearest Known Source of Contamination 100 feet West Direction Other Type Well disinfected upon completion? ☒ Yes ☐ No																																										
Pump ☒ Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ																																										
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 Aquifer Quat. buried Last Strat gravel (+larger)-brown Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or System UTM - NAD83, Zone 15, Meters X 550030 Y 5184933 Unique Number Verification Tax Records Input Date 10/30/2018																																										
Angled Drill Hole																																										
Well Contractor Northeast Drilling 69246 BUCHANAN, P. Licensee Business Lic. or Reg. No. Name of Driller																																										

Remarks
SAME AS UNIQUE NO. 140859.