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County St. Louis
Quad Makinen
Quad ID 292D

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

Entry Date 02/22/1988
Update Date 03/12/2017
Received Date

Well Name HOLMGREN,	Township 56	Range 15	Dir Section W 29	Subsection DDDADB	Well Depth 125 ft.	Depth Completed 125 ft.	Date Well Completed 04/03/1980																									
Elevation 1439	Elev. Method LiDAR 1m DEM (MNDNR)	Drill Method Air Rotary				Drill Fluid																										
Address Contact MAKINEN MN 55763					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>NO RECORD</td><td>0</td><td>1</td><td></td><td></td></tr><tr><td>CLAY</td><td>1</td><td>28</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>CLAY-SAND</td><td>28</td><td>65</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>CLAY-GRAVEL</td><td>65</td><td>125</td><td>GRAY</td><td>HARD</td></tr></table>					Geological Material	From	To (ft.)	Color	Hardness	NO RECORD	0	1			CLAY	1	28	BROWN	MEDIUM	CLAY-SAND	28	65	BROWN	MEDIUM	CLAY-GRAVEL	65	125	GRAY	HARD	Well Hydrofractured? Yes ☐ No ☐ From To		
					Geological Material	From	To (ft.)	Color	Hardness																							
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					CLAY	1	28	BROWN	MEDIUM																							
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					CLAY-GRAVEL	65	125	GRAY	HARD																							
					Casing Type Single casing			Joint Threaded																								
					Drive Shoe? Yes ☒ No ☐			Above/Below 1 ft.																								
					Casing Diameter 6 in. To 70 ft. 19.18 lbs./ft.			Hole Diameter 6 in. To 125 ft.																								
					Open Hole From 71 ft. To 125 ft.			Screen? ☐ Type Make																								
Static Water Level 11 ft. land surface Measure 04/03/1980			Pumping Level (below land surface)																													
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 feet Direction 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 Last Strat pebbly sand/silt/clay-gray Located by Minnesota Geological Survey Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 555893 Y 5238833 Unique Number Verification Tax Records Input Date 03/09/2017			Angled Drill Hole																													
Well Contractor North Country Drill 69483 DYER, T. Licensee Business Lic. or Reg. No. Name of Driller																																