

464071

County St. Louis
Quad Biwabik NE
Quad ID 319A

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

Entry Date 11/20/1990
Update Date 03/06/2020
Received Date

Well Name FREER,				Township 61	Range 16	Dir W	Section 26	Subsection CBDADD	Well Depth 185 ft.	Depth Completed 185 ft.	Date Well Completed 05/29/1990																																																				
Elevation 1408				Elev. Method 7.5 minute topographic map (+/- 5 feet)		Drill Method Air Rotary						Drill Fluid Water																																																			
Address C/W 8555 WISEMAN RD TOWER MN 55790										Use domestic		Status Active																																																			
Stratigraphy Information										Well Hydrofractured? Yes ☐ No ☐ From To																																																					
<table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>SAND FILL</td><td>0</td><td>3</td><td></td><td></td></tr><tr><td>CLAY</td><td>3</td><td>8</td><td></td><td></td></tr><tr><td>BOULDER</td><td>8</td><td>10</td><td></td><td></td></tr><tr><td>CLAY W/GRAVEL</td><td>10</td><td>22</td><td></td><td></td></tr><tr><td>GREENSTONE</td><td>22</td><td>28</td><td></td><td></td></tr><tr><td>GRANITE</td><td>28</td><td>52</td><td>RED/GRY</td><td></td></tr><tr><td>SOFT SPOT</td><td>52</td><td>53</td><td></td><td></td></tr><tr><td>GRANITE</td><td>53</td><td>59</td><td>BLACK</td><td></td></tr><tr><td>GRANITE</td><td>59</td><td>185</td><td>RED/BLK</td><td></td></tr></table>										Geological Material	From	To (ft.)	Color	Hardness	SAND FILL	0	3			CLAY	3	8			BOULDER	8	10			CLAY W/GRAVEL	10	22			GREENSTONE	22	28			GRANITE	28	52	RED/GRY		SOFT SPOT	52	53			GRANITE	53	59	BLACK		GRANITE	59	185	RED/BLK		Casing Type Single casing			Joint Other
Geological Material	From	To (ft.)	Color	Hardness																																																											
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Drive Shoe? Yes ☐ No ☐ Above/Below 1 ft.																																																															
Casing Diameter 6 in. To 22.5 ft. 19.45 lbs./ft.																																																															
Open Hole From 22.5 ft. To 185 ft.																																																															
Screen? ☐ Type Make																																																															
Static Water Level 6.8 ft. land surface Measure 05/29/1990																																																															
Pumping Level (below land surface) 170 ft. 2 hrs. Pumping at g.p.m.																																																															
Wellhead Completion Pitless adapter manufacturer MONITOR Model SNAPPY ☐ 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 Northwes Direction Septic tank/drain field Type Well disinfected upon completion? ☐ Yes ☐ No																																																															
Pump ☐ Not Installed Date Installed 05/31/1990 Manufacturer's name STA-RITE Model Number 8P4C025-38 HP 0.5 Volt 230 Length of drop pipe 170 ft Capacity 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 metabasalt/metavolcanic Aquifer Archean rocks Last Strat Alkaline intrusion Depth to Bedrock 22 ft Located by Minnesota Geological Survey Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 549040 Y 5286898 Unique Number Verification Address verification Input Date 09/28/2015																																																															
Angled Drill Hole																																																															
Well Contractor Petersen Well Co. 69183 PETERSEN, N. Licensee Business Lic. or Reg. No. Name of Driller																																																															
Remarks																																																															

Minnesota Well Index Report

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