

733821

County Otter Tail
Quad Battle Lake
Quad ID 217C

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

Entry Date
Update Date 05/03/2019
Received Date 01/05/2006

Well Name NONGAARD,	Township 133	Range 40	Dir Section W 12	Subsection BBABDC	Well Depth 80 ft.	Depth Completed 80 ft.	Date Well Completed 11/15/2005																														
Elevation 1332	Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Non-specified Rotary	Drill Fluid Bentonite																														
Address Well 26978 MANTEE BEACH RD BATTLE LAKE MN 56515 Contact CARROLL IA 51401					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>LOOSE SAND</td><td>0</td><td>13</td><td>RED</td><td></td></tr><tr><td>LOOSE SAND</td><td>13</td><td>40</td><td>GRAY</td><td></td></tr><tr><td>CLAY</td><td>40</td><td>50</td><td>BLUE</td><td>MEDIUM</td></tr><tr><td>LOOSE SANDY CLAY</td><td>50</td><td>70</td><td>BLUE</td><td></td></tr><tr><td>LOOSE SAND</td><td>70</td><td>80</td><td>WHITE</td><td></td></tr></table>					Geological Material	From	To (ft.)	Color	Hardness	LOOSE SAND	0	13	RED		LOOSE SAND	13	40	GRAY		CLAY	40	50	BLUE	MEDIUM	LOOSE SANDY CLAY	50	70	BLUE		LOOSE SAND	70	80	WHITE		Casing Type Single casing Joint		
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					Drive Shoe? Yes ☐ No ☒ Above/Below																																
					<table><tr><td>Casing Diameter</td><td>Weight</td><td>Hole Diameter</td></tr><tr><td>4 in. To 76 ft.</td><td>lbs./ft.</td><td>6.2 in. To ft.</td></tr></table>			Casing Diameter	Weight	Hole Diameter	4 in. To 76 ft.	lbs./ft.	6.2 in. To ft.																								
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4 in. To 76 ft.	lbs./ft.	6.2 in. To ft.																																			
					Open Hole From ft. To ft.																																
					Screen? ☒ Type stainless Make JOHNSON																																
					Diameter Slot/Gauze Length Set																																
					4 in. 10 4 ft. 76 ft. 80 ft.																																
					Static Water Level																																
					10 ft. land surface Measure 11/15/2005																																
					Pumping Level (below land surface)																																
					40 ft. 1 hrs. Pumping at 50 g.p.m.																																
					Wellhead Completion																																
					Pitless adapter manufacturer MONITOR Model 4B0																																
					☒ 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																																
					high solids bentonite 3 Sacks ft. 70 ft.																																
					Nearest Known Source of Contamination																																
					80 feet North Direction Septic tank/drain field Type																																
					Well disinfected upon completion? ☒ Yes ☐ No																																
					Pump ☐ Not Installed Date Installed																																
					Manufacturer's name MEYERS																																
					Model Number HP 0.5 Volt 115																																
					Length of drop pipe 40 ft Capacity 12 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 Aquifer Quat. buried																																
					Last Strat sand-white 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 294290 Y 5136866																																
					Unique Number Verification Site Plan Input Date 01/28/2019																																
					Angled Drill Hole																																
					Well Contractor																																
					Fergus Well Co. 56182 AVANT, D.																																
					Licensee Business Lic. or Reg. No. Name of Driller																																