

669249

County Otter Tail
Quad Star Lake
Quad ID 238D

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

Entry Date 03/05/2002
Update Date 05/29/2019
Received Date 12/13/2001

Well Name IVERSON,	Township 136	Range 41	Dir Section W 32	Subsection ADCDDC	Well Depth 81 ft.	Depth Completed 81 ft.	Date Well Completed 11/19/2001																										
Elevation 1355	Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Non-specified Rotary	Drill Fluid Bentonite																										
Address Well 40489 41 CH DENT MN Contact 29791 80TH ST N HITTERDAL MN 56552					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>GRAVEL</td><td>0</td><td>45</td><td>BROWN</td><td>HARD</td></tr><tr><td>CLAY</td><td>45</td><td>63</td><td>BLUE</td><td>HARD</td></tr><tr><td>CLAY</td><td>63</td><td>70</td><td>BLUE</td><td>SOFT</td></tr><tr><td>SAND-GRAVEL</td><td>70</td><td>81</td><td>BROWN</td><td>SOFT</td></tr></table>					Geological Material	From	To (ft.)	Color	Hardness	GRAVEL	0	45	BROWN	HARD	CLAY	45	63	BLUE	HARD	CLAY	63	70	BLUE	SOFT	SAND-GRAVEL	70	81	BROWN	SOFT	Casing Type Single casing			Joint Unknown
Geological Material	From	To (ft.)	Color	Hardness																													
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CLAY	63	70	BLUE	SOFT																													
SAND-GRAVEL	70	81	BROWN	SOFT																													
					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>8 in. To 24 ft.</td></tr><tr><td></td><td></td><td>6.7 in. To 81 ft.</td></tr></table>			Casing Diameter	Weight	Hole Diameter	4 in. To 76 ft.	lbs./ft.	8 in. To 24 ft.			6.7 in. To 81 ft.																	
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4 in. To 76 ft.	lbs./ft.	8 in. To 24 ft.																															
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					Open Hole From ft. To ft.																												
					Screen? ☒ Type stainless Make US FILTER																												
					Diameter Slot/Gauze Length Set																												
					4 in. 15 5 ft. 76 ft. 81 ft.																												
					Static Water Level 72 ft. land surface Measure 11/19/2001																												
					Pumping Level (below land surface) 81 ft. 2 hrs. Pumping at 55 g.p.m.																												
					Wellhead Completion Pitless adapter manufacturer MONITOR Model 6PSB45S4C0 ☐ 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 0 ft. 35 ft.																												
					Nearest Known Source of Contamination 24 feet South Direction Sewer Type																												
					Well disinfected upon completion? ☒ Yes ☐ No																												
					Pump ☐ Not Installed Date Installed 12/07/2001																												
					Manufacturer's name STA-RITE																												
					Model Number 10P4C02H HP 0.5 Volt 230																												
					Length of drop pipe 20 ft Capacity 10 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 +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 280129 Y 5159157 Unique Number Verification Site Plan Input Date 01/28/2019																												
					Angled Drill Hole																												
					Well Contractor Lindsay J. Well Co. 03465 LINDSAY, JIM Licensee Business Lic. or Reg. No. Name of Driller																												