

600040

County Pine
Quad Henriette
Quad ID 171D

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

Entry Date 05/28/1998
Update Date 02/14/2014
Received Date

Well Name EMSLANDER,					Township 39	Range 22	Dir W	Section 21	Subsection CDCCAB	Well Depth 155 ft.			Depth Completed 155 ft.			Date Well Completed 11/20/1997		
Elevation 988 ft.					Elev. Method 7.5 minute topographic map (+/- 5 feet)					Drill Method Non-specified Rotary			Drill Fluid Bentonite					
Address										Use domestic			Status Active					
Contact RR 1 BOX 84 PINE CITY MN 55063										Well Hydrofractured? Yes ☐ No ☒			From To					
Well GRASSTON MN 55030										Casing Type Single casing			Joint					
Stratigraphy Information										Drive Shoe? Yes ☒ No ☐			Above/Below					
Geological Material		From	To (ft.)	Color	Hardness	Casing Diameter			Weight			Hole Diameter						
CLAY		0	18	YELLOW	MEDIUM	4 in. To			136 ft. 11 lbs./ft.			8 in. To 136 ft.						
CLAY		18	32	GRAY	MEDIUM							4 in. To 155 ft.						
GRAVEL		32	38	BROWN	MEDIUM													
CLAY		38	122	BROWN	MEDIUM													
GRAVEL		122	130	DARK	MEDIUM													
SANDSTONE		130	155	WHITE	HARD													
Open Hole										From	136	ft.	To	155	ft.			
Screen? ☐										Type			Make					
Static Water Level																		
12		ft.		land surface				Measure		11/20/1997								
Pumping Level (below land surface)																		
25		ft.		2		hrs.		Pumping at		38		g.p.m.						
Wellhead Completion																		
Pitless adapter manufacturer					BAKER					Model SNAPPY								
☐ 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								
bentonite					2 Sacks					ft. ft.								
Nearest Known Source of Contamination																		
53 feet					South Direction					Septic tank/drain field Type								
Well disinfected upon completion?					☒ Yes ☐ No													
Pump ☐ Not Installed Date Installed 11/20/1997																		
Manufacturer's name FLINT & WALLING																		
Model Number					HP 0.5					Volt 230								
Length of drop pipe 60					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					Hinckley Sandstone					Aquifer Hinckley								
Last Strat					Hinckley Sandstone					Depth to Bedrock 130 ft								
Located by Minnesota Geological Survey																		
Locate Method Digitized - scale 1:24,000 or larger (Digitizing Table)																		
System					UTM - NAD83, Zone 15, Meters					X 492397 Y 5077076								
Unique Number Verification					Tag on well					Input Date 09/01/1998								
Angled Drill Hole																		
Well Contractor																		
Bill's Well					33655					SUTTON, GARY								
Licensee Business					Lic. or Reg. No.					Name of Driller								
Remarks																		