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County Cass
Quad
Quad ID

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

Entry Date 07/31/2017
Update Date 08/01/2017
Received Date 11/21/2016

Well Name HAALAND,	Township 145	Range 31	Dir W	Section 20	Subsection BBB	Well Depth 59 ft.	Depth Completed 59 ft.	Date Well Completed 09/20/2016
Elevation	Elev. Method					Drill Method Non-specified Rotary	Drill Fluid Bentonite	
Address C/W 6861 156TH ST NW CASS LAKE MN 56633						Use domestic	Status Active	
Stratigraphy Information Geological Material From To (ft.) Color Hardness TOPSOIL 0 1 BROWN SOFT SAND, FINE 1 18 BROWN SOFT SAND, MEDIUM 18 49 BROWN SOFT CLAY, SANDY 49 52 TAN SOFT SAND, FINE 52 59 BROWN SOFT						Well Hydrofractured? Yes ☐ No ☒ From To		
						Casing Type Single casing Joint		
						Drive Shoe? Yes ☐ No ☒ Above/Below		
						Casing Diameter Weight Hole Diameter 4 in. To 55 ft. 2 lbs./ft. 8 in. To 59 ft.		
						Open Hole From ft. To ft.		
						Screen? ☒ Type telescoping Make JOHNSON Diameter Slot/Gauze Length Set 4 in. 15 4 ft. 55 ft. 59 ft.		
						Static Water Level 13 ft. land surface Measure 09/21/2016		
						Pumping Level (below land surface) 23 ft. 1 hrs. Pumping at 12 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 Material Amount From To bentonite 5 Sacks ft. 50 ft.		
Nearest Known Source of Contamination 80 feet North Direction Sewer Type Well disinfected upon completion? ☒ Yes ☐ No								
Pump ☐ Not Installed Date Installed 09/26/2016 Manufacturer's name GOULDS Model Number 10CS05422 HP 0.5 Volt 230 Length of drop pipe 30 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 Last Strat Depth to Bedrock ft Located by Locate Method System UTM - NAD83, Zone 15, Meters X Y Unique Number Verification Input Date								
Angled Drill Hole								
Well Contractor Leech Lake Drilling 2953 KMETT S Licensee Business Lic. or Reg. No. Name of Driller								