

820751

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 PEMBERTON,	Township 145	Range 31	Dir W	Section 21	Subsection AAB	Well Depth 59 ft.	Depth Completed 59 ft.	Date Well Completed 10/04/2016
Elevation	Elev. Method					Drill Method Non-specified Rotary	Drill Fluid Bentonite	
Address						Use domestic	Status Active	
Well 6209 156TH ST NW CASS LAKE MN 56633						Well Hydrofractured? Yes ☐ No ☒ From To		
Contact 190 SAILSTER DR CASS LAKE MN 56633						Casing Type Single casing Joint		
Stratigraphy Information						Drive Shoe? Yes ☐ No ☒ Above/Below		
Geological Material		From	To (ft.)	Color	Hardness	Casing Diameter 4 in. To 55 ft. 2 lbs./ft.		
TOPSOIL		0	1	BROWN	SOFT	Hole Diameter 8 in. To 59 ft.		
SAND		1	23	BROWN	SOFT			
CLAY & COBBLES		23	34	WHITE	HARD			
SAND & GRAVEL		34	36	WHITE	HARD			
CLAY, SANDY		36	45	BROWN	MEDIUM			
SAND & CLAY		45	51	RED	SOFT			
SAND, FINE		51	59	RED	SOFT			
Open Hole						From	ft.	To
Screen? ☒						Type telescoping		Make JOHNSON
Diameter						Slot/Gauze	Length	Set
4 in.						15	4 ft.	55 ft. 59 ft.
Static Water Level								
29 ft.						land surface		Measure 10/04/2016
Pumping Level (below land surface)								
38 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
high solids bentonite						7 Sacks	ft.	52 ft.
Nearest Known Source of Contamination								
61 feet						Southeas Direction		Septic tank/drain field Type
Well disinfected upon completion?						☒ Yes ☐ No		
Pump ☐ Not Installed						Date Installed		10/05/2016
Manufacturer's name						GOULDS		
Model Number						10CS05422	HP	0.5 Volt 230
Length of drop pipe						35 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