

733832

County Otter Tail
Quad Elizabeth
Quad ID 219B

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

Entry Date
Update Date 05/09/2019
Received Date 01/05/2006

Well Name BOWMAN,	Township 134	Range 44	Dir Section W 23	Subsection BBCBAD	Well Depth 210 ft.	Depth Completed 210 ft.	Date Well Completed 11/25/2005
Elevation 1318.9	Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Non-specified Rotary	Drill Fluid Bentonite
Address					Use domestic	Status Active	
Contact 30812 21 CR ROTHSA Y MN 56579					Well Hydrofractured? Yes ☐ No ☒ From To		
Stratigraphy Information					Casing Type Single casing Joint		
					Drive Shoe? Yes ☐ No ☒ Above/Below		
Geological Material					Casing Diameter 4 in. To 202 ft. lbs./ft.		
					Weight		
					Hole Diameter 6.2 in. To ft.		
CLAY 0 23 YELLOW MEDIUM							
CLAY 23 70 BLUE MEDIUM							
CLAY/SANDY 70 90 BLUE MEDIUM							
FIRM CLAY 90 160 BLUE							
LOOSE CLAY/SANDY 160 200 BLUE							
LOOSE SAND 200 210 WHITE							
					Open Hole From ft. To ft.		
					Screen? ☒ Type stainless Make JOHNSON		
					Diameter Slot/Gauze Length Set		
					4 in. 12 4 ft. 202 ft. 210 ft.		
					Static Water Level		
					110 ft. land surface Measure 11/25/2005		
					Pumping Level (below land surface)		
					140 ft. 1 hrs. Pumping at 15 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 8 Sacks ft. 195 ft.		
					Nearest Known Source of Contamination		
					55 feet Southwes Direction Septic tank/drain field Type		
					Well disinfected upon completion? ☒ Yes ☐ No		
					Pump ☐ Not Installed Date Installed		
					Manufacturer's name STARITE		
					Model Number HP 0.75 Volt 240		
					Length of drop pipe 180 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 254356 Y 5144632		
					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		

Remarks