

797168

County Otter Tail
Quad Henning SE
Quad ID 216D

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

Entry Date
Update Date 08/19/2019
Received Date 04/05/2013

Well Name B & C FARMS	Township 133	Range 37	Dir W	Section 17	Subsection ACDDDC	Well Depth 130 ft.	Depth Completed 130 ft.	Date Well Completed 03/21/2013																																													
Elevation 1463	Elev. Method LiDAR 1m DEM (MNDNR)				Drill Method Non-specified Rotary	Drill Fluid Qwik gel																																															
Address Contact 54451 210 SH HENNING MN 56551						Use irrigation	Status Active																																														
Stratigraphy Information <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>TOPSOIL</td><td>0</td><td>2</td><td>BLACK</td><td>SOFT</td></tr><tr><td>CLAY</td><td>2</td><td>10</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>SAND/CLAY LAYERS</td><td>10</td><td>23</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>SANDY CLAY</td><td>23</td><td>40</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>SANDY CLAY</td><td>40</td><td>45</td><td>GRAY</td><td>SOFT</td></tr><tr><td>SAND</td><td>45</td><td>70</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>CLAY</td><td>70</td><td>96</td><td>GRAY</td><td>HARD</td></tr><tr><td>SAND</td><td>96</td><td>130</td><td>GRAY</td><td>MEDIUM</td></tr></table>						Geological Material	From	To (ft.)	Color	Hardness	TOPSOIL	0	2	BLACK	SOFT	CLAY	2	10	BROWN	MEDIUM	SAND/CLAY LAYERS	10	23	BROWN	MEDIUM	SANDY CLAY	23	40	BROWN	MEDIUM	SANDY CLAY	40	45	GRAY	SOFT	SAND	45	70	BROWN	MEDIUM	CLAY	70	96	GRAY	HARD	SAND	96	130	GRAY	MEDIUM	Well Hydrofractured? Yes ☐ No ☒ From To		
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Casing Type Single casing			Joint Welded																																																		
Drive Shoe? Yes ☐ No ☒ Above/Below																																																					
Casing Diameter 12 in. To 110 ft.			Weight lbs./ft.		Hole Diameter 17. in. To 130 ft.																																																
Open Hole Screen? ☒ Type stainless Make JOHNSON																																																					
Diameter Slot/Gauze Length Set																																																					
12 in. 70 20 ft. 110 ft. 130 ft.																																																					
Static Water Level 26 ft. land surface Measure 03/21/2013																																																					
Pumping Level (below land surface) 62 ft. 6 hrs. Pumping at 800 g.p.m.																																																					
Wellhead Completion Pitless adapter manufacturer Model ☐ 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 11 Sacks ft. 50 ft.																																																					
Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? ☐ Yes ☒ No																																																					
Pump ☐ Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ																																																					
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-gray 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 317659 Y 5133810 Unique Number Verification Site Plan Input Date 01/28/2019																																																					
Angled Drill Hole																																																					
Well Contractor Steven M Traut Wells, Inc. 1889 IN REMARKS Licensee Business Lic. or Reg. No. Name of Driller																																																					