

881726

County Marshall
Quad Greenbush
Quad ID 434D

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

Entry Date
Update Date 02/01/2024
Received Date 12/04/2023

Well Name ROTH, LARRY	Township 158	Range 42	Dir W	Section 15	Subsection ADCCBB																																													
Elevation 1207	Elev. Method LiDAR 1m DEM (MNDNR)																																																	
Address Well 48 CH MIDDLE RIVER MN 56737 Contact 816 JAMES AV SE EAST GRAND FORKS MN 56721																																																		
Stratigraphy Information <table><thead><tr><th>Geological Material</th><th>From</th><th>To (ft.)</th><th>Color</th><th>Hardness</th></tr></thead><tbody><tr><td>CLAY</td><td>0</td><td>14</td><td>BROWN</td><td>SOFT</td></tr><tr><td>SAND/CLAY</td><td>14</td><td>95</td><td>GRAY</td><td>SOFT</td></tr><tr><td>FINE SAND</td><td>95</td><td>96</td><td>GRAY</td><td>SOFT</td></tr><tr><td>CLAY</td><td>96</td><td>164</td><td>GRAY</td><td>MEDIUM</td></tr><tr><td>FINE SAND</td><td>164</td><td>168</td><td>GRAY</td><td>SOFT</td></tr><tr><td>CLAY</td><td>168</td><td>220</td><td>GRAY</td><td>MEDIUM</td></tr><tr><td>SAND</td><td>220</td><td>223</td><td>GRAY</td><td>MEDIUM</td></tr><tr><td>CLAY</td><td>223</td><td>230</td><td>GRAY</td><td>HARD</td></tr></tbody></table>						Geological Material	From	To (ft.)	Color	Hardness	CLAY	0	14	BROWN	SOFT	SAND/CLAY	14	95	GRAY	SOFT	FINE SAND	95	96	GRAY	SOFT	CLAY	96	164	GRAY	MEDIUM	FINE SAND	164	168	GRAY	SOFT	CLAY	168	220	GRAY	MEDIUM	SAND	220	223	GRAY	MEDIUM	CLAY	223	230	GRAY	HARD
Geological Material	From	To (ft.)	Color	Hardness																																														
CLAY	0	14	BROWN	SOFT																																														
SAND/CLAY	14	95	GRAY	SOFT																																														
FINE SAND	95	96	GRAY	SOFT																																														
CLAY	96	164	GRAY	MEDIUM																																														
FINE SAND	164	168	GRAY	SOFT																																														
CLAY	168	220	GRAY	MEDIUM																																														
SAND	220	223	GRAY	MEDIUM																																														
CLAY	223	230	GRAY	HARD																																														
Well Depth 230 ft.						Depth Completed 223 ft.	Date Well Completed 10/06/2023																																											
Drill Method Non-specified Rotary		Drill Fluid Bentonite																																																
Use domestic				Status Active																																														
Well Hydrofractured? Yes ☐ No ☒ From To																																																		
Casing Type Single casing						Joint Glued																																												
Drive Shoe? Yes ☐ No ☒ Above/Below																																																		
Casing Diameter 4 in. To 219 ft. 1.9 lbs./ft.						Hole Diameter 8 in. To 20 ft. 6.7 in. To 230 ft.																																												
Open Hole <table><thead><tr><th>From</th><th>ft.</th><th>To</th><th>ft.</th></tr></thead><tbody><tr><td colspan="4">Screen? ☒ Type stainless Make JOHNSON</td></tr><tr><td colspan="2">Diameter 4 in.</td><td>Slot/Gauze 10</td><td>Length 4 ft.</td></tr><tr><td colspan="2"></td><td>Set 219 ft.</td><td>ft. 223 ft.</td></tr></tbody></table>						From	ft.	To	ft.	Screen? ☒ Type stainless Make JOHNSON				Diameter 4 in.		Slot/Gauze 10	Length 4 ft.			Set 219 ft.	ft. 223 ft.																													
From	ft.	To	ft.																																															
Screen? ☒ Type stainless Make JOHNSON																																																		
Diameter 4 in.		Slot/Gauze 10	Length 4 ft.																																															
		Set 219 ft.	ft. 223 ft.																																															
Static Water Level 12 ft. land surface Measure 10/06/2023																																																		
Pumping Level (below land surface) <table><thead><tr><th>ft.</th><th>hrs.</th><th>Pumping at</th><th>12</th><th>g.p.m.</th></tr></thead><tbody></tbody></table>						ft.	hrs.	Pumping at	12	g.p.m.																																								
ft.	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 <table><thead><tr><th>Material</th><th>Amount</th><th>From</th><th>To</th></tr></thead><tbody><tr><td>bentonite</td><td>5 Sacks</td><td>ft. 80</td><td>ft.</td></tr></tbody></table>						Material	Amount	From	To	bentonite	5 Sacks	ft. 80	ft.																																					
Material	Amount	From	To																																															
bentonite	5 Sacks	ft. 80	ft.																																															
Nearest Known Source of Contamination <table><thead><tr><th>feet</th><th>Direction</th><th>Type</th></tr></thead><tbody><tr><td colspan="3">Well disinfected upon completion? ☒ Yes ☐ No</td></tr></tbody></table>						feet	Direction	Type	Well disinfected upon completion? ☒ Yes ☐ No																																									
feet	Direction	Type																																																
Well disinfected upon completion? ☒ Yes ☐ No																																																		
Pump ☐ Not Installed Date Installed 10/23/2023 Manufacturer's name GRUNDFOS Model Number 10SQ07240 HP 0.75 Volt 240 Length of drop pipe 130 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 Quat. buried Last Strat clay-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 275291 Y 5377263 Unique Number Verification Tax Records Input Date 02/01/2024																																																		
Angled Drill Hole																																																		
Well Contractor Calder Well Drilling, Inc. 1663 CALDER, NICK Licensee Business Lic. or Reg. No. Name of Driller																																																		
Remarks																																																		

Minnesota Well Index Report

881726

Printed on 08/13/2026
HE-01205-15