

800831

County St. Louis
Quad Fredenburg
Quad ID 244B

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

Entry Date 10/14/2013
Update Date 06/14/2017
Received Date 09/23/2013

Well Name WIKBLAD,	Township 52	Range 14	Dir Section W 17	Subsection ABDBDB	Well Depth 75 ft.	Depth Completed 75 ft.	Date Well Completed 08/21/2013																										
Elevation 1374	Elev. Method LiDAR 1m DEM (MNDNR)	Drill Method Non-specified Rotary				Drill Fluid Water																											
Address Well 6670 BERGSTROM RD DULUTH MN 55803					Use domestic			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>TOP SOIL</td><td>0</td><td>1</td><td>BROWN</td><td></td></tr><tr><td>SAND</td><td>1</td><td>63</td><td>BROWN</td><td></td></tr><tr><td>SILTY SAND</td><td>63</td><td>72</td><td>BROWN</td><td></td></tr><tr><td>CEMENT GRAVEL</td><td>72</td><td>75</td><td>GRAY</td><td></td></tr></table>					Geological Material	From	To (ft.)	Color	Hardness	TOP SOIL	0	1	BROWN		SAND	1	63	BROWN		SILTY SAND	63	72	BROWN		CEMENT GRAVEL	72	75	GRAY		Well Hydrofractured? Yes ☐ No ☒ From To			
					Geological Material	From	To (ft.)	Color	Hardness																								
					TOP SOIL	0	1	BROWN																									
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					Casing Type Single casing				Joint Threaded																								
					Drive Shoe? Yes ☒ No ☐				Above/Below																								
					Casing Diameter 6 in. To 73 ft. 19.45 lbs./ft.				Hole Diameter 6 in. To 75 ft.																								
					Open Hole From 73 ft. To 75 ft.																												
Screen? ☐				Type Make																													
Static Water Level 2 ft. land surface Measure 08/21/2013																																	
Pumping Level (below land surface) 70 ft. 1 hrs. Pumping at 20 g.p.m.																																	
Wellhead Completion Pitless adapter manufacturer MAASS Model 6J1 ☐ 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 4 Sacks ft. 73 ft.																																	
Nearest Known Source of Contamination <u>100</u> feet <u>South</u> Direction <u>Septic tank/drain field</u> Type Well disinfected upon completion? ☒ Yes ☐ No																																	
Pump ☐ Not Installed Date Installed <u>08/23/2013</u> Manufacturer's name STA-RITE Model Number <u>S10P4HS05</u> HP <u>0.5</u> Volt <u>230</u> Length of drop pipe <u>50</u> ft Capacity <u>10</u> g.p. Typ <u>Submersible</u>																																	
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 Last Strat gravel (+larger)-gray Aquifer Quat. Water Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 565384 Y 5204856 Unique Number Verification Address verification Input Date 05/01/2017																																	
Angled Drill Hole																																	
Well Contractor Ojard Well Drilling, Inc. 2133 LOVOLD, B. Licensee Business Lic. or Reg. No. Name of Driller																																	