

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

Entry Date	07/14/2016
Update Date	11/26/2019
Received Date	07/05/2016

Well Name WESTORFF, Elevation 1026	Township 51	Range 13	Dir Section W 33	Subsection ABABAB	Well Depth 320 ft.	Depth Completed 320 ft.	Date Well Completed 03/06/2016
Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Non-specified Rotary	Drill Fluid Water	
Address Well 2202 LESTER RIVER RD DULUTH MN 55804 Contact 4427 ROBINSON ST DULUTH MN 55804					Use domestic	Status Active	
Stratigraphy Information Geological Material From To (ft.) Color Hardness TOP SOIL 0 1 BROWN CLAY 1 40 GABBRO 40 123 GRAY BASALT 123 128 RED GABBRO 128 320 GRAY					Well Hydrofractured? Yes ☐ No ☒ From To		
					Casing Type Single casing Joint Threaded Drive Shoe? Yes ☒ No ☐ Above/Below		
					Casing Diameter Weight Hole Diameter 6 in. To 42 ft. 18.97 lbs./ft. 6 in. To 320 ft.		
					Open Hole From 42 ft. To 320 ft.		
					Screen? ☐ Type Make		
					Static Water Level 18 ft. land surface Measure 03/06/2016		
					Pumping Level (below land surface) 320 ft. 1 hrs. Pumping at 2 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. 42 ft.		
					Nearest Known Source of Contamination 100 feet East Direction Septic tank/drain field Type Well disinfected upon completion? ☒ Yes ☐ No		
					Pump ☐ Not Installed Date Installed 05/19/2016 Manufacturer's name STA-RITE Model Number S10P4HS10 HP 1 Volt 230 Length of drop pipe 300 ft Capacity 10 g.p. Type 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 upper southwest volc Aquifer Middle Last Strat Mid. Proterozoic rocks Depth to Bedrock 40 ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or System UTM - NAD83, Zone 15, Meters X 576869 Y 5190708 Unique Number Verification Site Plan Input Date 10/19/2016		
					Angled Drill Hole		
					Well Contractor Ojard Well Drilling, Inc. 2133 OJARD, J. Licensee Business Lic. or Reg. No. Name of Driller		
Minnesota Well Index Report					807026		Printed on 08/13/2026 HE-01205-15