

Well Name	Township	Range	Dir	Section	Subsection
HOLLADAY, ED	51	13	W	33	BADBAD
Elevation	951 ft.	Elev. Method	LiDAR 1m DEM (MNDNR)		
Address					
Well 2001 LESTER RIVER RD DULUTH MN 55804					
Stratigraphy Information					
Geological Material	From	To (ft.)	Color	Hardness	
CLAY	0	53	RED		
CEM. GRAVEL	53	55			
BASALT 4	55	137	GRAY		
BASALT 5	137	325	RED		
BASALT 4	325	447	GRAY		
BASALT 5	447	500	RED		
Well Depth					
500 ft.		Depth Completed		Date Well Completed	
500 ft.		500 ft.		08/15/2013	
Drill Method		Non-specified Rotary		Drill Fluid Water	
Use domestic Status Active					
Well Hydrofractured?		Yes ☒	No ☐	From 80 ft.	To 500 ft.
Casing Type		Single casing		Joint Threaded	
Drive Shoe?		Yes ☒	No ☐	Above/Below	
Casing Diameter		Weight		Hole Diameter	
6 in. To 56 ft.		19.45 lbs./ft.		6 in. To 500 ft.	
Open Hole From 56 ft. To 500 ft.					
Screen? ☐ Type Make					
Static Water Level					
50 ft.		land surface		Measure 08/22/2013	
Pumping Level (below land surface)					
500 ft.		1 hrs. Pumping at		3 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		3 Sacks		ft. 56 ft.	
Nearest Known Source of Contamination					
100 feet		Southwes Direction		Septic tank/drain field Type	
Well disinfected upon completion?		☒ Yes ☐ No			
Pump ☐ Not Installed Date Installed 08/22/2013					
Manufacturer's name		A.Y. MCDONALD			
Model Number		231100V3S HP 1		Volt 230	
Length of drop pipe		400 ft Capacity 7		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		upper southwest volc		Aquifer Middle	
Last Strat		Mid. Proterozoic rocks		Depth to Bedrock 55 ft	
Located by		Minnesota Geological Survey			
Locate Method		Digitization (Screen) - Map (1:12,000) (>15 meters)			
System		UTM - NAD83, Zone 15, Meters		X 576494 Y 5190471	
Unique Number Verification		Address verification		Input Date 05/11/2016	
Angled Drill Hole					
Well Contractor					
Ojard Well Drilling, Inc.		2133		LOVOLD, B.	
Licensee Business		Lic. or Reg. No.		Name of Driller	
Minnesota Well Index Report					
800829					
Printed on 08/13/2026					
HE-01205-15					