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County

St. Louis

Quad

Duluth

Quad ID

244C

MINNESOTA DEPARTMENT OF HEALTH

WELL AND BORING REPORT

Minnesota Statutes Chapter 1031

Entry Date

06/13/2014

Update Date

12/04/2019

Received Date

05/23/2014

Well Name RAPPANA, Township 50 Range 14 Dir Section W 5 Subsection DACDDA	Well Depth 340 ft. Depth Completed 340 ft. Date Well Completed 11/08/2013
Elevation 1370 Elev. Method LiDAR 1m DEM (MNDNR)	Drill Method Driven Drill Fluid Water
Address Well3207 NORTON RD DULUTH MN 55803	Use domestic Status Active
Stratigraphy Information Geological Material CLAY GRANITE From 0 24 To (ft.) 24 340 Color RED GRAY Hardness MEDIUM HARD	Well Hydrofractured? Yes No From To Casing Type Single casing Joint Welded Drive Shoe? Yes No Above/Below Casing Diameter 6 in. To 24 ft. 18.97 lbs./ft. Hole Diameter 6 in. To 340 ft.
	Open Hole From 24 ft. To 340 ft. Screen? Type Make
	Static Water Level 72 ft. land surface Measure 11/08/2013
	Pumping Level (below land surface) 300 ft. 4 hrs. Pumping at 4 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 3 Sacks ft. 14 ft.
	Nearest Known Source of Contamination 85 feet West Direction Septic tank/drain field 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 Duluth Cplx-anorth.series Aquifer Duluth Cplx- Last Strat Duluth Cplx-anorth.series Depth to Bedrock 24 ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:12,000) (>15 meters) System UTM - NAD83, Zone 15, Meters X 565955 Y 5187809 Unique Number Verification Address verification Input Date 04/27/2016
Remarks	Angled Drill Hole Well Contractor Robert Davidson Well Co. 1410 GRAVES, D. Licensee Business Lic. or Reg. No. Name of Driller