

729153

County Chisago
Quad Stark
Quad ID 152D

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

Entry Date 12/07/2005
Update Date 08/18/2014
Received Date 03/24/2006

Well Name QUANRUD					Township 36	Range 22	Dir W	Section 29	Subsection CDDCBB	Well Depth 180 ft.			Depth Completed 180 ft.			Date Well Completed 10/28/2005																																							
Elevation 960 ft.					Elev. Method 7.5 minute topographic map (+/- 5 feet)					Drill Method Cable Tool			Drill Fluid Water																																										
Address Well 43071 AMERY AV MN										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>CLAY</td><td>0</td><td>8</td><td>BROWN</td><td>HARD</td></tr><tr><td>SAND GRAVEL & GRAVEL</td><td>8</td><td>35</td><td>BROWN</td><td></td></tr><tr><td>SANDSTONE & SHALE</td><td>35</td><td>52</td><td>BLACK</td><td>HARD</td></tr><tr><td>SANDSTONE</td><td>52</td><td>90</td><td>GRN/YEL</td><td>MEDIUM</td></tr><tr><td>SANDSTONE & SHALE</td><td>90</td><td>138</td><td>YELLOW</td><td>SOFT</td></tr><tr><td>SANDSTONE</td><td>138</td><td>160</td><td>GREEN</td><td>MEDIUM</td></tr><tr><td>SANDSTONE</td><td>160</td><td>180</td><td>TAN</td><td>SOFT</td></tr></table>										Geological Material	From	To (ft.)	Color	Hardness	CLAY	0	8	BROWN	HARD	SAND GRAVEL & GRAVEL	8	35	BROWN		SANDSTONE & SHALE	35	52	BLACK	HARD	SANDSTONE	52	90	GRN/YEL	MEDIUM	SANDSTONE & SHALE	90	138	YELLOW	SOFT	SANDSTONE	138	160	GREEN	MEDIUM	SANDSTONE	160	180	TAN	SOFT	Well Hydrofractured? Yes ☐ No ☒			From To		
										Geological Material	From	To (ft.)	Color	Hardness																																									
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										Casing Type Single casing			Joint Threaded																																										
Drive Shoe? Yes ☒ No ☐			Above/Below																																																				
Casing Diameter 4 in.			Weight 160 ft. 11 lbs./ft.																																																				
Open Hole From ft. To ft.																																																							
Screen? ☒ Diameter 2 in.			Type stainless Slot/Gauze 10 Length 15 ft.																																																				
			Make JOHNSON Set 165 ft. 180 ft.																																																				
Static Water Level 14 ft.			land surface Measure 10/28/2005																																																				
Pumping Level (below land surface) 24 ft.			2 hrs. Pumping at 25 g.p.m.																																																				
Wellhead Completion Pitless adapter manufacturer SNAPPY Model			☐ Casing Protection ☐ 12 in. above grade ☐ At-grade (Environmental Wells and Borings ONLY)																																																				
Grouting Information Well Grouted? ☐ Yes ☒ No ☐ Not Specified																																																							
Nearest Known Source of Contamination 55 feet Southwes Direction Sewer Type			Well disinfected upon completion? ☐ Yes ☐ No																																																				
Pump ☐ Not Installed Date Installed 10/28/2005			Manufacturer's name AERMOTOR Model Number T12-50 HP 0.5 Volt 230 Length of drop pipe 60 ft Capacity 12 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 Tunnel City Group Aquifer Wonewoc Last Strat Wonewoc Sandstone Depth to Bedrock 52 ft Located by Minnesota Department of Health Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 490883 Y 5046647 Unique Number Verification Address verification Input Date 10/19/2005																																																							
Angled Drill Hole																																																							
Well Contractor Lindsay Well Co. 30385 LINDSAY, R. Licensee Business Lic. or Reg. No. Name of Driller																																																							

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