

475937

County Goodhue
Quad Maiden
Quad ID 85D

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

Entry Date 12/26/1991
Update Date 08/18/2014
Received Date

Well Name ARNOLD,					Township 112	Range 13	Dir W	Section 11	Subsection AACACA	Well Depth 210 ft.			Depth Completed 210 ft.			Date Well Completed 09/26/1991																																														
Elevation 750 ft.					Elev. Method 7.5 minute topographic map (+/- 5 feet)					Drill Method Non-specified Rotary			Drill Fluid Bentonite																																																	
Address C/W 29108 LEROY AV LAKE CITY MN 55041										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>SANDY CLAY</td><td>0</td><td>3</td><td>YELLOW</td><td>SOFT</td></tr><tr><td>SAND/GRAVEL</td><td>3</td><td>16</td><td>RED</td><td>MEDIUM</td></tr><tr><td>SAND</td><td>16</td><td>152</td><td>RED</td><td>MEDIUM</td></tr><tr><td>ROCK GRANITE</td><td>152</td><td>153</td><td>BLACK</td><td>HARD</td></tr><tr><td>GRAVEL</td><td>153</td><td>168</td><td>ORN/RED</td><td>MEDIUM</td></tr><tr><td>CLAY</td><td>168</td><td>172</td><td>ORN/RED</td><td>SOFT</td></tr><tr><td>CLAY/GRAVEL</td><td>172</td><td>182</td><td>ORN/RED</td><td>MEDIUM</td></tr><tr><td>SHALE</td><td>182</td><td>198</td><td>GREEN</td><td>HARD</td></tr><tr><td>SHALE/SANDSTONE</td><td>198</td><td>210</td><td>YELLOW</td><td>MEDIUM</td></tr></table>										Geological Material	From	To (ft.)	Color	Hardness	SANDY CLAY	0	3	YELLOW	SOFT	SAND/GRAVEL	3	16	RED	MEDIUM	SAND	16	152	RED	MEDIUM	ROCK GRANITE	152	153	BLACK	HARD	GRAVEL	153	168	ORN/RED	MEDIUM	CLAY	168	172	ORN/RED	SOFT	CLAY/GRAVEL	172	182	ORN/RED	MEDIUM	SHALE	182	198	GREEN	HARD	SHALE/SANDSTONE	198	210	YELLOW	MEDIUM	Well Hydrofractured? Yes ☐ No ☐ From To		
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SHALE/SANDSTONE	198	210	YELLOW	MEDIUM																																																										
Casing Type Single casing			Joint Welded																																																											
Drive Shoe? Yes ☒ No ☐			Above/Below 1.5 ft.																																																											
Casing Diameter 4 in. To 196 ft.			Weight lbs./ft.			Hole Diameter 6 in. To 196 ft. 4 in. To 210 ft.																																																								
Open Hole From 196 ft. To 210 ft.																																																														
Screen? ☐			Type			Make																																																								
Static Water Level 57 ft. land surface Measure 09/11/1991																																																														
Pumping Level (below land surface)																																																														
Wellhead Completion Pitless adapter manufacturer MAASE 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 2 Cubic yards 0 ft. 196 ft.																																																														
Nearest Known Source of Contamination 100 feet Northeast Direction Septic tank/drain field Type Well disinfected upon completion? ☐ Yes ☐ No																																																														
Pump ☐ Not Installed Date Installed 09/13/1991 Manufacturer's name FAIRBANKS MORSE Model Number HP 0.5 Volt 230 Length of drop pipe 84 ft Capacity 10 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/Lone Rock Fm Aquifer Tunnel City/Lone Last Strat Tunnel City/Lone Rock Fm Depth to Bedrock 182 ft Located by Minnesota Geological Survey Locate Method Digitized - scale 1:24,000 or larger (Digitizing Table) System UTM - NAD83, Zone 15, Meters X 553032 Y 4930391 Unique Number Verification Information from Input Date 05/28/1996																																																														
Angled Drill Hole																																																														
Well Contractor Maher Well Co. 19301 MAHER, T. Licensee Business Lic. or Reg. No. Name of Driller																																																														

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