

790213

County Mower
Quad Rose Creek
Quad ID 8D

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

Entry Date09/26/2012

Update Date08/18/2014

Received Date10/11/2012

Well Name RANSOM, JERRY					Township 101	Range 17	Dir W	Section 23	Subsection AADCAB	Well Depth 385 ft.			Depth Completed 385 ft.			Date Well Completed 09/20/2012																																																																
Elevation 1257					Elev. Method 7.5 minute topographic map (+/- 5 feet)					Drill Method Non-specified Rotary			Drill Fluid Bentonite																																																																			
Address C/W 12799 610TH AV ROSE CREEK MN										Use domestic			Status Active																																																																			
Stratigraphy Information <table><thead><tr><th>Geological Material</th><th>From</th><th>To (ft.)</th><th>Color</th><th>Hardness</th></tr></thead><tbody><tr><td>TOP SOIL</td><td>0</td><td>2</td><td>BLACK</td><td></td></tr><tr><td>CLAY</td><td>2</td><td>15</td><td>YELLOW</td><td></td></tr><tr><td>SAND COARSE</td><td>15</td><td>23</td><td></td><td></td></tr><tr><td>CLAY</td><td>23</td><td>36</td><td></td><td></td></tr><tr><td>SAND/GRAVEL</td><td>36</td><td>57</td><td></td><td></td></tr><tr><td>LIMESTONE</td><td>57</td><td>60</td><td></td><td></td></tr><tr><td>LIMESTONE</td><td>60</td><td>151</td><td>YELLOW</td><td></td></tr><tr><td>LIMESTONE</td><td>151</td><td>205</td><td>YELLOW</td><td></td></tr><tr><td>LIMESTONE</td><td>205</td><td>235</td><td>GRAY</td><td></td></tr><tr><td>LIMESTONE</td><td>235</td><td>261</td><td>GRAY</td><td></td></tr><tr><td>LIMESTONE</td><td>261</td><td>340</td><td>GRAY</td><td></td></tr><tr><td>LIMESTONE</td><td>340</td><td>385</td><td>GRAY</td><td></td></tr></tbody></table>										Geological Material	From	To (ft.)	Color	Hardness	TOP SOIL	0	2	BLACK		CLAY	2	15	YELLOW		SAND COARSE	15	23			CLAY	23	36			SAND/GRAVEL	36	57			LIMESTONE	57	60			LIMESTONE	60	151	YELLOW		LIMESTONE	151	205	YELLOW		LIMESTONE	205	235	GRAY		LIMESTONE	235	261	GRAY		LIMESTONE	261	340	GRAY		LIMESTONE	340	385	GRAY		Well Hydrofractured? Yes ☐ No ☐			From To		
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Casing Type Step down			Joint Welded																																																																													
Drive Shoe? Yes ☒ No ☐			Above/Below																																																																													
Casing Diameter			Weight			Hole Diameter																																																																										
4 in. To			281 ft. 10 lbs./ft.			12. in. To 57 ft.																																																																										
8 in. To			57 ft. lbs./ft.			8 in. To 281 ft.																																																																										
						4 in. To 385 ft.																																																																										
Open Hole			From 281 ft. To 385 ft.																																																																													
Screen? ☐			Type			Make																																																																										
Static Water Level 18 ft. land surface Measure 10/08/2012																																																																																
Pumping Level (below land surface)																																																																																
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 neat cement 10.2 Cubic yards ft. 281 ft.																																																																																
Nearest Known Source of Contamination 50 feet North 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 Upper Cedar Valley Aquifer Spillville- Last Strat Maquoketa Formation Depth to Bedrock 60 ft Located by Minnesota Department of Health Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 513718 Y 4820870 Unique Number Verification Info/GPS from data Input Date 09/26/2012																																																																																
Angled Drill Hole																																																																																
Well Contractor Morrison Well Co., Inc. 1970 MORRISON, D. Licensee Business Lic. or Reg. No. Name of Driller																																																																																

Minnesota Well Index Report

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Remarks
GAMMA, CALIPER, & MULTI TOOL LOGGED 9-26-2012. M.G.S. NO. 5280.
LOGGED FOR MDH.
0-60 QUUU, 60-151 DCVU, 151-235 DCVL, 235-261 DWPR, 261-340 DSPL, 340-386 OMAQ.