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County Renville
Quad Lake Allie
Quad ID 109D

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

Entry Date02/07/2017

Update Date05/09/2018

Received Date

Well Name MARKGRAF, Elevation1063 Address C/W 54789 815TH AV BUFFALO LAKE MN 55314 Stratigraphy Information <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>TOP SOIL</td><td>0</td><td>1</td><td>BLACK</td><td>SOFT</td></tr><tr><td>CLAY</td><td>1</td><td>7</td><td>BROWN</td><td>SOFT</td></tr><tr><td>SAND & GRAVEL</td><td>7</td><td>18</td><td>BROWN</td><td>SOFT</td></tr><tr><td>SANDY CLAY</td><td>18</td><td>51</td><td>GRAY</td><td>SOFT</td></tr><tr><td>CLAY</td><td>51</td><td>82</td><td>GRAY</td><td>SOFT</td></tr><tr><td>SANDY CLAY</td><td>82</td><td>91</td><td>GRAY</td><td>SOFT</td></tr><tr><td>CLAY</td><td>91</td><td>193</td><td>GRAY</td><td>SOFT</td></tr><tr><td>CLAY</td><td>193</td><td>215</td><td>GREEN</td><td>MEDIUM</td></tr></table>	Geological Material	From	To (ft.)	Color	Hardness	TOP SOIL	0	1	BLACK	SOFT	CLAY	1	7	BROWN	SOFT	SAND & GRAVEL	7	18	BROWN	SOFT	SANDY CLAY	18	51	GRAY	SOFT	CLAY	51	82	GRAY	SOFT	SANDY CLAY	82	91	GRAY	SOFT	CLAY	91	193	GRAY	SOFT	CLAY	193	215	GREEN	MEDIUM	Well Depth 234 ft. Drill Method Non-specified Rotary Use domestic Well Hydrofractured? Yes ☐ No ☐ Casing Type Drive Shoe? Yes ☐ No ☒ Casing Diameter 4 in. To 229 ft. Weight lbs./ft. Hole Diameter 6.5 in. To 234 ft. Open Hole From ft. To ft. Screen? ☒ Diameter 3 in. Slot/Gauze 15 Type plastic Length 5 ft. Make JAYCO Set 229 ft. Static Water Level 20 ft. land surface Measure 11/27/2015 Pumping Level (below land surface) 40 ft. 1 hrs. Pumping at 100 g.p.m. Wellhead Completion Pitless adapter manufacturer MONITOR Model B4BO ☐ 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. 60 ft. Nearest Known Source of Contamination 51 feet North Direction Other Type Well disinfected upon completion? ☒ Yes ☐ No Pump ☐ Not Installed Date Installed 11/30/2015 Manufacturer's name GRUNDFOS Model Number 10S05 HP 0.5 Volt 240 Length of drop pipe 60 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 Aquifer Last Strat Depth to Bedrock ft Located by Minnesota Department of Health Locate Method GPS SA Off (averaged) (15 meters) System UTM - NAD83, Zone 15, Meters X 376473 Y 4958273 Unique Number Verification Info/GPS from data Input Date 12/22/2015 Angled Drill Hole Well Contractor Mathews Drilling and Pump 1845 MATHEWS, E Licensee Business Lic. or Reg. No. Name of Driller
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