

167371

County Aitkin  
Quad Isle  
Quad ID 190B

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

Entry Date 09/08/1990  
Update Date 07/11/2017  
Received Date

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|-------------------------|----------|------|---|----|--------|------|------------|----|----|-----|------|------|----|----|-----|------|-------------|----|----|-------|------|-------------|----|----|------|------|------|----|----|------|------|-------------------------------------|--|--|--|--------------------------|
| <b>Well Name</b><br>ROBINETTE,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Township</b><br>43                       | <b>Range</b><br>24                          | <b>Dir Section</b><br>W 7 | <b>Subsection</b><br>DDCDBC | <b>Well Depth</b><br>87 ft.                                                                                                                                                                                                                                                                                                 | <b>Depth Completed</b><br>87 ft. | <b>Date Well Completed</b><br>09/07/1982 |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| <b>Elevation</b><br>1303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Elev. Method</b><br>LiDAR 1m DEM (MNDNR) | <b>Drill Method</b><br>Non-specified Rotary |                           |                             |                                                                                                                                                                                                                                                                                                                             | <b>Drill Fluid</b>               |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| <b>Address</b><br><br>Contact RR 2 ISLE MN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                             |                                             |                           |                             | <b>Use</b><br>domestic                                                                                                                                                                                                                                                                                                      |                                  |                                          | <b>Status</b><br>Active |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| <b>Stratigraphy Information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Well Hydrofractured?</b><br><b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>From</b> <b>To</b>                                                                                                                                                                                                 |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| <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>18</td><td>YELLOW</td><td>SOFT</td></tr><tr><td>SANDY CLAY</td><td>18</td><td>22</td><td>RED</td><td>SOFT</td></tr><tr><td>CLAY</td><td>22</td><td>48</td><td>RED</td><td>SOFT</td></tr><tr><td>CLAY &amp; ROCK</td><td>48</td><td>70</td><td>BROWN</td><td>HARD</td></tr><tr><td>CLAY &amp; ROCK</td><td>70</td><td>79</td><td>GRAY</td><td>HARD</td></tr><tr><td>SAND</td><td>79</td><td>87</td><td>GRAY</td><td>SOFT</td></tr></table> |                                             |                                             |                           |                             | Geological Material                                                                                                                                                                                                                                                                                                         | From                             | To (ft.)                                 | Color                   | Hardness | CLAY | 0 | 18 | YELLOW | SOFT | SANDY CLAY | 18 | 22 | RED | SOFT | CLAY | 22 | 48 | RED | SOFT | CLAY & ROCK | 48 | 70 | BROWN | HARD | CLAY & ROCK | 70 | 79 | GRAY | HARD | SAND | 79 | 87 | GRAY | SOFT | <b>Casing Type</b><br>Single casing |  |  |  | <b>Joint</b><br>Threaded |
| Geological Material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | From                                        | To (ft.)                                    | Color                     | Hardness                    |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0                                           | 18                                          | YELLOW                    | SOFT                        |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| SANDY CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18                                          | 22                                          | RED                       | SOFT                        |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| CLAY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22                                          | 48                                          | RED                       | SOFT                        |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| CLAY & ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 48                                          | 70                                          | BROWN                     | HARD                        |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| CLAY & ROCK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 70                                          | 79                                          | GRAY                      | HARD                        |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
| SAND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 79                                          | 87                                          | GRAY                      | SOFT                        |                                                                                                                                                                                                                                                                                                                             |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Drive Shoe?</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input checked="" type="checkbox"/> <b>Above/Below</b> 1 ft.                                                                                                                                                                                               |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Casing Diameter</b> <b>Weight</b> <b>Hole Diameter</b><br>4 in. To 81 ft. 11 lbs./ft. 6.2 in. To 86 ft.                                                                                                                                                                                                                  |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Open Hole</b> From ft. To ft.                                                                                                                                                                                                                                                                                            |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Screen?</b> <input checked="" type="checkbox"/> <b>Type</b> stainless <b>Make</b> JOHNSON<br>Diameter Slot/Gauze Length Set<br>2 in. 15 5 ft. 81 ft. 86 ft.                                                                                                                                                              |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Static Water Level</b><br>15 ft. land surface Measure 09/07/1982                                                                                                                                                                                                                                                         |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Pumping Level (below land surface)</b><br>ft. hrs. Pumping at 20 g.p.m.                                                                                                                                                                                                                                                  |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Wellhead Completion</b><br>Pitless adapter manufacturer Model<br><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade<br><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)                                                                                      |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Grouting Information</b> Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified<br>Material Amount From To<br>bentonite ft. ft.                                                                                                                        |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Nearest Known Source of Contamination</b><br><u>100</u> feet <u>North</u> Direction <u>Septic tank/drain field</u> Type<br>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                         |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Pump</b> <input type="checkbox"/> Not Installed Date Installed <u>09/10/1982</u><br>Manufacturer's name MYERS<br>Model Number HP <u>0.5</u> Volt<br>Length of drop pipe <u>30</u> ft Capacity <u>12</u> g.p. Typ <u>Submersible</u>                                                                                      |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Abandoned</b><br>Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                      |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Variance</b><br>Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                              |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Miscellaneous</b><br>First Bedrock Aquifer Quat. buried<br>Last Strat sand-gray Depth to Bedrock ft<br>Located by Minnesota Geological Survey<br>Locate Method GPS SA Off (averaged) (15 meters)<br>System UTM - NAD83, Zone 15, Meters X 468164 Y 5117749<br>Unique Number Verification Site Plan Input Date 05/23/2017 |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Angled Drill Hole</b>                                                                                                                                                                                                                                                                                                    |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                             |                           |                             | <b>Well Contractor</b><br>Bill's Well Co. 33087 JAPP, B<br>Licensee Business Lic. or Reg. No. Name of Driller                                                                                                                                                                                                               |                                  |                                          |                         |          |      |   |    |        |      |            |    |    |     |      |      |    |    |     |      |             |    |    |       |      |             |    |    |      |      |      |    |    |      |      |                                     |  |  |  |                          |