

627104

County Nicollet  
Quad Judson  
Quad ID 56B

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

Entry Date 09/06/2000  
Update Date 01/02/2009  
Received Date

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
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| <b>Well Name</b><br>PAASCH,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                           | <b>Township</b><br>109                                         | <b>Range</b><br>28 | <b>Dir</b><br>W | <b>Section</b><br>22                       | <b>Subsection</b><br>ACBDCC | <b>Well Depth</b><br>195 ft.                |      |          |         | <b>Depth Completed</b><br>195 ft. |          |   |   | <b>Date Well Completed</b><br>05/24/2000 |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Elevation</b><br>1002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                           | <b>Elev. Method</b><br>7.5 minute topographic map (+/- 5 feet) |                    |                 |                                            |                             | <b>Drill Method</b><br>Non-specified Rotary |      |          |         | <b>Drill Fluid</b><br>Bentonite   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Address</b><br><br>Well 49372 455TH AV NICOLLET MN 55334                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                           |                                                                |                    |                 |                                            |                             | <b>Use</b><br>domestic                      |      |          |         | <b>Status</b><br>Active           |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Stratigraphy Information</b> <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>2</td><td>BLACK</td><td>SOFT</td></tr><tr><td>CLAY</td><td>2</td><td>17</td><td>YELLOW</td><td>SOFT</td></tr><tr><td>CLAY</td><td>17</td><td>90</td><td>GRAY</td><td>SOFT</td></tr><tr><td>SAND</td><td>90</td><td>148</td><td>GRAY</td><td>MEDIUM</td></tr><tr><td>GRAVEL &amp; STONES</td><td>148</td><td>165</td><td>BRN/GRY</td><td>HARD</td></tr><tr><td>SAND (FINE)</td><td>165</td><td>186</td><td>WHITE</td><td>SOFT</td></tr><tr><td>SAND (MED)</td><td>186</td><td>195</td><td>WHITE</td><td>SOFT</td></tr></table> |  |  |  |                           |                                                                |                    |                 |                                            |                             | Geological Material                         | From | To (ft.) | Color   | Hardness                          | TOP SOIL | 0 | 2 | BLACK                                    | SOFT | CLAY | 2 | 17 | YELLOW | SOFT | CLAY | 17 | 90 | GRAY | SOFT | SAND | 90 | 148 | GRAY | MEDIUM | GRAVEL & STONES | 148 | 165 | BRN/GRY | HARD | SAND (FINE) | 165 | 186 | WHITE | SOFT | SAND (MED) | 186 | 195 | WHITE | SOFT | <b>Well Hydrofractured?</b><br><b>Yes</b> <input type="checkbox"/> <b>No</b> <input checked="" type="checkbox"/> <b>From</b><br><b>To</b> |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | Geological Material                         | From | To (ft.) | Color   | Hardness                          |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | TOP SOIL                                    | 0    | 2        | BLACK   | SOFT                              |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | CLAY                                        | 2    | 17       | YELLOW  | SOFT                              |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | CLAY                                        | 17   | 90       | GRAY    | SOFT                              |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | SAND                                        | 90   | 148      | GRAY    | MEDIUM                            |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | GRAVEL & STONES                             | 148  | 165      | BRN/GRY | HARD                              |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | SAND (FINE)                                 | 165  | 186      | WHITE   | SOFT                              |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | SAND (MED)                                  | 186  | 195      | WHITE   | SOFT                              |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             | <b>Casing Type</b><br>Single casing         |      |          |         | <b>Joint</b>                      |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Drive Shoe?</b><br><b>Yes</b> <input type="checkbox"/> <b>No</b> <input checked="" type="checkbox"/> <b>Above/Below</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Casing Diameter</b><br>5 in. To 190 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  | <b>Weight</b><br>lbs./ft. |                                                                |                    |                 | <b>Hole Diameter</b><br>8.7 in. To 195 ft. |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Open Hole</b><br>From ft. To ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Screen?</b> <input checked="" type="checkbox"/> <b>Type</b> stainless                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  | <b>Make</b> JOHNSON       |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| Diameter Slot/Gauze Length Set                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  | 190 ft. 195 ft.           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| 4 in. 18 6 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Static Water Level</b><br>155 ft. land surface Measure 05/24/2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Pumping Level (below land surface)</b><br>165 ft. 3 hrs. Pumping at 20 g.p.m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Wellhead Completion</b><br>Pitless adapter manufacturer BATTER MFG Model 0SP56PS4C0<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><br>Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified<br>Material Amount From To<br>high solids bentonite 1.75 Cubic yards 6 ft. 185 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Nearest Known Source of Contamination</b><br>60 feet East Direction Septic tank/drain field 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 05/24/2000<br>Manufacturer's name FLINT & WALLING<br>Model Number 4F10B07 HP 0.75 Volt 230<br>Length of drop pipe 178 ft Capacity 10 g.p. Typ Submersible                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Abandoned</b><br>Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Variance</b><br>Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Miscellaneous</b><br>First Bedrock Cretaceous undiff. Aquifer Cretaceous,<br>Last Strat Cretaceous undiff. Depth to Bedrock 165 ft<br>Located by Minnesota Geological Survey<br>Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or<br>System UTM - NAD83, Zone 15, Meters X 405860 Y 4898566<br>Unique Number Verification Tag on well Input Date 11/18/2003                                                                                                                                                                                                                                                                                                                           |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Angled Drill Hole</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |
| <b>Well Contractor</b><br>Reimer Well Co. 72053 REIMER, E.<br>Licensee Business Lic. or Reg. No. Name of Driller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |                           |                                                                |                    |                 |                                            |                             |                                             |      |          |         |                                   |          |   |   |                                          |      |      |   |    |        |      |      |    |    |      |      |      |    |     |      |        |                 |     |     |         |      |             |     |     |       |      |            |     |     |       |      |                                                                                                                                           |  |  |  |

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