

542252

County Cass  
Quad Nisswa  
Quad ID 232D

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

Entry Date 03/28/2013  
Update Date 01/22/2016  
Received Date 10/09/1995

|                                                                                                                                                      |                                             |                    |                 |                     |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------|-----------------|---------------------|-----------------------------|
| <b>Well Name</b><br>GRIVNA, BRUCE                                                                                                                    | <b>Township</b><br>135                      | <b>Range</b><br>29 | <b>Dir</b><br>W | <b>Section</b><br>9 | <b>Subsection</b><br>BDACCC |
| <b>Elevation</b><br>1246                                                                                                                             | <b>Elev. Method</b><br>LiDAR 1m DEM (MNDNR) |                    |                 |                     |                             |
| <b>Address</b><br><br>Well 7761 LOST LAKE RD LAKE SHORE MN 56468                                                                                     |                                             |                    |                 |                     |                             |
| <b>Stratigraphy Information</b>                                                                                                                      |                                             |                    |                 |                     |                             |
| Geological Material                                                                                                                                  |                                             | From               | To (ft.)        | Color               | Hardness                    |
| SAND                                                                                                                                                 |                                             | 0                  | 29              | BROWN               | SOFT                        |
| CLAY                                                                                                                                                 |                                             | 29                 | 84              | GRAY                | MEDIUM                      |
| SAND                                                                                                                                                 |                                             | 84                 | 94              | GRAY                | SOFT                        |
| <b>Well Depth</b><br>94 ft.                                                                                                                          |                                             |                    |                 |                     |                             |
| <b>Depth Completed</b><br>94 ft.                                                                                                                     |                                             |                    |                 |                     |                             |
| <b>Date Well Completed</b><br>09/27/1995                                                                                                             |                                             |                    |                 |                     |                             |
| <b>Drill Method</b><br>Non-specified Rotary                                                                                                          |                                             |                    |                 |                     |                             |
| <b>Drill Fluid</b><br>Bentonite                                                                                                                      |                                             |                    |                 |                     |                             |
| <b>Use</b><br>domestic                                                                                                                               |                                             |                    |                 |                     |                             |
| <b>Status</b><br>Active                                                                                                                              |                                             |                    |                 |                     |                             |
| <b>Well Hydrofractured?</b><br><b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>From</b> <b>To</b>                          |                                             |                    |                 |                     |                             |
| <b>Casing Type</b><br>Single casing                                                                                                                  |                                             |                    |                 |                     |                             |
| <b>Joint</b>                                                                                                                                         |                                             |                    |                 |                     |                             |
| <b>Drive Shoe?</b> <b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/> <b>Above/Below</b>                                         |                                             |                    |                 |                     |                             |
| <b>Casing Diameter</b><br>4 in.                                                                                                                      |                                             |                    |                 |                     |                             |
| <b>Weight</b><br>90 ft. 1.91 lbs./ft.                                                                                                                |                                             |                    |                 |                     |                             |
| <b>Open Hole</b><br>From ft. To ft.                                                                                                                  |                                             |                    |                 |                     |                             |
| <b>Screen?</b> <input checked="" type="checkbox"/> <b>Type</b> stainless <b>Make</b> COOK                                                            |                                             |                    |                 |                     |                             |
| <b>Diameter</b> Slot/Gauze Length Set                                                                                                                |                                             |                    |                 |                     |                             |
| in. 12 4 ft. 90 ft. 94 ft.                                                                                                                           |                                             |                    |                 |                     |                             |
| <b>Static Water Level</b><br>55 ft. land surface Measure 09/27/1995                                                                                  |                                             |                    |                 |                     |                             |
| <b>Pumping Level (below land surface)</b><br>65 ft. 2 hrs. Pumping at 10 g.p.m.                                                                      |                                             |                    |                 |                     |                             |
| <b>Wellhead Completion</b><br>Pitless adapter manufacturer SNAPPY Model                                                                              |                                             |                    |                 |                     |                             |
| <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade                                                    |                                             |                    |                 |                     |                             |
| <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 |                                             |                    |                 |                     |                             |
| Material Amount From To                                                                                                                              |                                             |                    |                 |                     |                             |
| bentonite 3 Sacks ft. 30 ft.                                                                                                                         |                                             |                    |                 |                     |                             |
| <b>Nearest Known Source of Contamination</b><br>53 feet East Direction Sewer Type                                                                    |                                             |                    |                 |                     |                             |
| Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                |                                             |                    |                 |                     |                             |
| <b>Pump</b> <input type="checkbox"/> Not Installed Date Installed 09/27/1995                                                                         |                                             |                    |                 |                     |                             |
| Manufacturer's name AERMOTOR                                                                                                                         |                                             |                    |                 |                     |                             |
| Model Number T12-50 HP 0.5 Volt 115                                                                                                                  |                                             |                    |                 |                     |                             |
| Length of drop pipe 70 ft Capacity 12 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 type="checkbox"/> No                       |                                             |                    |                 |                     |                             |
| <b>Miscellaneous</b>                                                                                                                                 |                                             |                    |                 |                     |                             |
| First Bedrock                                                                                                                                        |                                             |                    |                 |                     |                             |
| Last Strat sand-gray Aquifer Quat. buried                                                                                                            |                                             |                    |                 |                     |                             |
| Depth to Bedrock ft                                                                                                                                  |                                             |                    |                 |                     |                             |
| Located by Minnesota Geological Survey                                                                                                               |                                             |                    |                 |                     |                             |
| Locate Method GPS SA Off (averaged) (15 meters)                                                                                                      |                                             |                    |                 |                     |                             |
| System UTM - NAD83, Zone 15, Meters X 396994 Y 5153100                                                                                               |                                             |                    |                 |                     |                             |
| Unique Number Verification Tax Records Input Date 10/07/2015                                                                                         |                                             |                    |                 |                     |                             |
| <b>Angled Drill Hole</b>                                                                                                                             |                                             |                    |                 |                     |                             |
| <b>Well Contractor</b>                                                                                                                               |                                             |                    |                 |                     |                             |
| L.C. Well Service 18637 GARY                                                                                                                         |                                             |                    |                 |                     |                             |
| Licensee Business Lic. or Reg. No. Name of Driller                                                                                                   |                                             |                    |                 |                     |                             |