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County Kanabec  
Quad Quamba  
Quad ID 171B

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

Entry Date 02/06/1997  
Update Date 06/09/2014  
Received Date

|                                      |                                             |                    |                            |                             |                                                                                                                                                      |                                                           |                                          |
|--------------------------------------|---------------------------------------------|--------------------|----------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------|
| <b>Well Name</b><br>ELLISON,         | <b>Township</b><br>41                       | <b>Range</b><br>23 | <b>Dir Section</b><br>W 34 | <b>Subsection</b><br>CCCBDB | <b>Well Depth</b><br>83 ft.                                                                                                                          | <b>Depth Completed</b><br>83 ft.                          | <b>Date Well Completed</b><br>10/16/1996 |
| <b>Elevation</b><br>1052.2           | <b>Elev. Method</b><br>LiDAR 1m DEM (MNDNR) |                    |                            |                             |                                                                                                                                                      | <b>Drill Method</b><br>Non-specified Rotary               | <b>Drill Fluid</b><br>Bentonite          |
| <b>Address</b>                       |                                             |                    |                            |                             | <b>Use</b><br>domestic                                                                                                                               | <b>Status</b><br>Active                                   |                                          |
| Contact RR 1 BOX 299D MORA MN 55051  |                                             |                    |                            |                             | <b>Well Hydrofractured?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>From</b> <b>To</b>                                           |                                                           |                                          |
| Well 2301 WHITETAIL DR MORA MN 55051 |                                             |                    |                            |                             | <b>Casing Type</b> Single casing <b>Joint</b> Threaded                                                                                               |                                                           |                                          |
| <b>Stratigraphy Information</b>      |                                             |                    |                            |                             | <b>Drive Shoe?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Above/Below</b>                                                       |                                                           |                                          |
| <b>Geological Material</b>           |                                             | <b>From</b>        | <b>To (ft.)</b>            | <b>Color</b>                | <b>Hardness</b>                                                                                                                                      | <b>Casing Diameter</b> <b>Weight</b> <b>Hole Diameter</b> |                                          |
| ROCKS/CLAY                           |                                             | 0                  | 75                         | BROWN                       | HARD                                                                                                                                                 | 4 in. To 79 ft. 11 lbs./ft. 7 in. To 83 ft.               |                                          |
| ROCKS/GRAVEL                         |                                             | 75                 | 83                         | VARIED                      | HARD                                                                                                                                                 |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Open Hole</b> From ft. To ft.                                                                                                                     |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Screen?</b> <input checked="" type="checkbox"/> <b>Type</b> stainless <b>Make</b> JOHNSON                                                         |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Diameter Slot/Gauze Length Set                                                                                                                       |                                                           |                                          |
|                                      |                                             |                    |                            |                             | 2 in. 10 4 ft. 79 ft. 83 ft.                                                                                                                         |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Static Water Level</b>                                                                                                                            |                                                           |                                          |
|                                      |                                             |                    |                            |                             | 51 ft. land surface Measure 11/21/1995                                                                                                               |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Pumping Level (below land surface)</b>                                                                                                            |                                                           |                                          |
|                                      |                                             |                    |                            |                             | 57 ft. 1 hrs. Pumping at 15 g.p.m.                                                                                                                   |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Wellhead Completion</b>                                                                                                                           |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Pitless adapter manufacturer MONITOR Model SNAPPY                                                                                                    |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <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                                                                                                                              |                                                           |                                          |
|                                      |                                             |                    |                            |                             | high solids bentonite 2 Sacks 0 ft. 30 ft.                                                                                                           |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Nearest Known Source of Contamination</b>                                                                                                         |                                                           |                                          |
|                                      |                                             |                    |                            |                             | 50 feet South Direction Septic tank/drain field Type                                                                                                 |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Pump</b> <input type="checkbox"/> Not Installed Date Installed 10/16/1996                                                                         |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Manufacturer's name CUSTOMER'S GOULDS                                                                                                                |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Model Number 10EG05412 HP 0.5 Volt 230                                                                                                               |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Length of drop pipe 69 ft Capacity 10 g.p. Typ Submersible                                                                                           |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Abandoned</b>                                                                                                                                     |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                        |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Variance</b>                                                                                                                                      |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                               |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Miscellaneous</b>                                                                                                                                 |                                                           |                                          |
|                                      |                                             |                    |                            |                             | First Bedrock Aquifer Quat. buried                                                                                                                   |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Last Strat gravel (+larger) Depth to Bedrock ft                                                                                                      |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Located by Minnesota Geological Survey                                                                                                               |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Locate Method Digitization (Screen) - Map (1:12,000) (>15 meters)                                                                                    |                                                           |                                          |
|                                      |                                             |                    |                            |                             | System UTM - NAD83, Zone 15, Meters X 481192 Y 5092105                                                                                               |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Unique Number Verification Site Plan Input Date 05/15/2014                                                                                           |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Angled Drill Hole</b>                                                                                                                             |                                                           |                                          |
|                                      |                                             |                    |                            |                             | <b>Well Contractor</b>                                                                                                                               |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Rosga Well Co. 58069 FRYE, F.                                                                                                                        |                                                           |                                          |
|                                      |                                             |                    |                            |                             | Licensee Business Lic. or Reg. No. Name of Driller                                                                                                   |                                                           |                                          |
| <b>Remarks</b>                       |                                             |                    |                            |                             |                                                                                                                                                      |                                                           |                                          |