

515083

County Carlton  
Quad Iverson  
Quad ID 225A

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

Entry Date 03/25/1993  
Update Date  
Received Date

|                                                                                                                |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          |                                          |
|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------|-----------------|----------------------|-----------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <b>Well Name</b><br>FALL, DEB                                                                                  | <b>Township</b><br>49                                          | <b>Range</b><br>17 | <b>Dir</b><br>W | <b>Section</b><br>20 | <b>Subsection</b><br>CABBDB | <b>Well Depth</b><br>74 ft.                                                               | <b>Depth Completed</b><br>69 ft.                                                                                         | <b>Date Well Completed</b><br>09/09/1992 |
| <b>Elevation</b><br>1270                                                                                       | <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>Other                                                                                              |                                          |
| <b>Address</b><br><br>Well 1770 BIG LAKE RD CLOQUET MN 55720<br>Contact 213 FEDERAL BLDG. BEMIDJI MN 566010360 |                                                                |                    |                 |                      |                             | <b>Use</b><br>domestic                                                                    | <b>Status</b><br>Active                                                                                                  |                                          |
| <b>Stratigraphy Information</b>                                                                                |                                                                |                    |                 |                      |                             | <b>Well Hydrofractured?</b><br>Yes <input type="checkbox"/> No <input type="checkbox"/>   | <b>From</b>                                                                                                              | <b>To</b>                                |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Casing Type</b><br>Single casing                                                       | <b>Joint</b><br>Glued                                                                                                    |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Drive Shoe?</b><br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <b>Above/Below</b>                                                                                                       |                                          |
| <b>Geological Material</b>                                                                                     |                                                                |                    |                 |                      |                             | <b>Casing Diameter</b>                                                                    | <b>Weight</b>                                                                                                            | <b>Hole Diameter</b>                     |
| FINE SAND                                                                                                      |                                                                |                    |                 |                      |                             | 6 in. To                                                                                  | 66 ft. lbs./ft.                                                                                                          | 10. in. To 69 ft.                        |
| SANDY CLAY                                                                                                     |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          |                                          |
| SAND & GRAVEL                                                                                                  |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          |                                          |
| SANDY CLAY &                                                                                                   |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          |                                          |
| SAND & GRAVEL                                                                                                  |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          |                                          |
| CLAY                                                                                                           |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          |                                          |
| GRANITE                                                                                                        |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Open Hole</b>                                                                          | From ft.                                                                                                                 | To ft.                                   |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Screen?</b> <input checked="" type="checkbox"/>                                        | <b>Type</b> other                                                                                                        | <b>Make</b> JOHNSON                      |
|                                                                                                                |                                                                |                    |                 |                      |                             | Diameter                                                                                  | Slot/Gauze                                                                                                               | Length Set                               |
|                                                                                                                |                                                                |                    |                 |                      |                             | 4 in.                                                                                     | 18                                                                                                                       | 3 ft. 66 ft. 69 ft.                      |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Static Water Level</b>                                                                 |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | 7 ft.                                                                                     | land surface                                                                                                             | Measure 09/09/1992                       |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Pumping Level (below land surface)</b>                                                 |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | 69 ft.                                                                                    | 4 hrs.                                                                                                                   | Pumping at 20 g.p.m.                     |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Wellhead Completion</b>                                                                |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | Pitless adapter manufacturer                                                              | MAASS                                                                                                                    | Model 6J-1                               |
|                                                                                                                |                                                                |                    |                 |                      |                             | <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                                  |
|                                                                                                                |                                                                |                    |                 |                      |                             |                                                                                           |                                                                                                                          | 7 ft. 30 ft.                             |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Nearest Known Source of Contamination</b>                                              |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | feet                                                                                      | Direction                                                                                                                | Type                                     |
|                                                                                                                |                                                                |                    |                 |                      |                             | Well disinfected upon completion?                                                         | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                      |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Pump</b> <input type="checkbox"/> Not Installed                                        | Date Installed                                                                                                           |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | Manufacturer's name                                                                       |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | Model Number                                                                              | HP                                                                                                                       | Volt                                     |
|                                                                                                                |                                                                |                    |                 |                      |                             | Length of drop pipe                                                                       | ft Capacity                                                                                                              | g.p. Typ                                 |
|                                                                                                                |                                                                |                    |                 |                      |                             | <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 type="checkbox"/> No                                                                 |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Miscellaneous</b>                                                                      |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | First Bedrock                                                                             | Virginia/Thomson                                                                                                         | Aquifer Quat. buried                     |
|                                                                                                                |                                                                |                    |                 |                      |                             | Last Strat                                                                                | Virginia/Thomson                                                                                                         | Depth to Bedrock 74 ft                   |
|                                                                                                                |                                                                |                    |                 |                      |                             | Located by                                                                                | Carlton Cty. Soil & Water Cons. Dist.                                                                                    |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | Locate Method                                                                             | GPS Differentially Corrected (25 meters)                                                                                 |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | System                                                                                    | UTM - NAD83, Zone 15, Meters                                                                                             | X 536156 Y 5173462                       |
|                                                                                                                |                                                                |                    |                 |                      |                             | Unique Number Verification                                                                |                                                                                                                          | Input Date 08/01/2000                    |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Angled Drill Hole</b>                                                                  |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | <b>Well Contractor</b>                                                                    |                                                                                                                          |                                          |
|                                                                                                                |                                                                |                    |                 |                      |                             | Traut M.J. Well Co.                                                                       | 71536                                                                                                                    | GORDY/KURT                               |
|                                                                                                                |                                                                |                    |                 |                      |                             | Licensee Business                                                                         | Lic. or Reg. No.                                                                                                         | Name of Driller                          |