

470234

County Sherburne  
Quad Elk River  
Quad ID 137D

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

Entry Date07/05/1991

Update Date08/18/2014

Received Date

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------------------------------------------|--|--|--|--|-----------------------------------------------------------------------------------------------------------------|------|----------|--------|----------|------------------------------------------|---|----|-------|------|--------|----|----|--------|------|-------------|----|----|-------|------|-------------|----|-----|-----|--------|-------|-----|-----|-------|--------|-----------|-----|-----|-------|--------|------------------------------------------------------------------------------------------------------------|--|--|--|--|
| <b>Well Name</b><br>32<br><b>Township</b><br>26<br><b>Range</b><br>W 1<br><b>Dir Section</b><br>DBDACD<br><b>Subsection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  | <b>Well Depth</b><br>280 ft.             |  |  |  |  | <b>Depth Completed</b><br>280 ft.                                                                               |      |          |        |          | <b>Date Well Completed</b><br>08/28/1990 |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Elevation</b> 899 ft. <b>Elev. Method</b> 7.5 minute topographic map (+/- 5 feet)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  | <b>Drill Method</b> Non-specified Rotary |  |  |  |  | <b>Drill Fluid</b> Bentonite                                                                                    |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Address</b><br>C/W 17543 CLEVELAND ST ELK RIVER MN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                          |  |  |  |  | <b>Use</b> domestic                                                                                             |      |          |        |          | <b>Status</b> 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>SILT/SAND</td><td>0</td><td>10</td><td>BROWN</td><td>SOFT</td></tr><tr><td>GRAVEL</td><td>10</td><td>55</td><td>VARIED</td><td>SOFT</td></tr><tr><td>SILT/GRAVEL</td><td>55</td><td>80</td><td>BROWN</td><td>SOFT</td></tr><tr><td>CLAY/GRAVEL</td><td>80</td><td>180</td><td>RED</td><td>MEDIUM</td></tr><tr><td>SHALE</td><td>180</td><td>185</td><td>GREEN</td><td>MEDIUM</td></tr><tr><td>SANDSTONE</td><td>185</td><td>280</td><td>WHITE</td><td>MEDIUM</td></tr></table> |  |  |  |  |                                          |  |  |  |  | Geological Material                                                                                             | From | To (ft.) | Color  | Hardness | SILT/SAND                                | 0 | 10 | BROWN | SOFT | GRAVEL | 10 | 55 | VARIED | SOFT | SILT/GRAVEL | 55 | 80 | BROWN | SOFT | CLAY/GRAVEL | 80 | 180 | RED | MEDIUM | SHALE | 180 | 185 | GREEN | MEDIUM | SANDSTONE | 185 | 280 | WHITE | MEDIUM | <b>Well Hydrofractured?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>From</b> <b>To</b> |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | Geological Material                                                                                             | From | To (ft.) | Color  | Hardness |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | SILT/SAND                                                                                                       | 0    | 10       | BROWN  | SOFT     |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | GRAVEL                                                                                                          | 10   | 55       | VARIED | SOFT     |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | SILT/GRAVEL                                                                                                     | 55   | 80       | BROWN  | SOFT     |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | CLAY/GRAVEL                                                                                                     | 80   | 180      | RED    | MEDIUM   |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | SHALE                                                                                                           | 180  | 185      | GREEN  | MEDIUM   |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | SANDSTONE                                                                                                       | 185  | 280      | WHITE  | MEDIUM   |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | <b>Casing Type</b> Single casing <b>Joint</b>                                                                   |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  | <b>Drive Shoe?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>Above/Below</b> 1 ft. |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Casing Diameter</b> <b>Weight</b> <b>Hole Diameter</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| 4 in. To 263 ft. 1.9 lbs./ft. 8.8 in. To 280 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Open Hole</b> From 263 ft. To 280 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Screen?</b> <input type="checkbox"/> <b>Type</b> <b>Make</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Static Water Level</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| 20 ft. land surface Measure 08/28/1990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Pumping Level (below land surface)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| ft. 4 hrs. Pumping at 60 g.p.m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Wellhead Completion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Pitless adapter manufacturer 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| neat cement 1.5 Cubic yards 0 ft. 150 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Nearest Known Source of Contamination</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| 75 feet Direction Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Pump</b> <input type="checkbox"/> Not Installed Date Installed 08/29/1990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Manufacturer's name JACUZZI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Model Number JACUZZI HP 0.5 Volt 220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Length of drop pipe 74 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 type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Miscellaneous</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| First Bedrock Tunnel City Group Aquifer Wonewoc-Eau                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Last Strat Eau Claire Formation Depth to Bedrock 180 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Located by Minnesota Geological Survey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Locate Method GPS SA Off (averaged) (15 meters)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| System UTM - NAD83, Zone 15, Meters X 459447 Y 5015242                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Unique Number Verification Address verification Input Date 02/28/2011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Angled Drill Hole</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| <b>Well Contractor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Bergerson-Caswell 27058 LEZER, J.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |
| Licensee Business Lic. or Reg. No. Name of Driller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |                                          |  |  |  |  |                                                                                                                 |      |          |        |          |                                          |   |    |       |      |        |    |    |        |      |             |    |    |       |      |             |    |     |     |        |       |     |     |       |        |           |     |     |       |        |                                                                                                            |  |  |  |  |

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