

521880

County Chisago  
Quad Forest Lake  
Quad ID 134C

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

Entry Date 12/16/1993  
Update Date 09/05/2020  
Received Date

|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             |                                                                                                                                                      |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------|----------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------|-------|----------|------|---|---|--|--|------|---|----|------|--|---------------|----|----|--|--|---------------|----|----|--|--|-------------------------------------|--------------------------|--|
| <b>Well Name</b><br>ELMORE                                                                                                                                                                                                                                                                                                                                                                           | <b>Township</b><br>33                                          | <b>Range</b><br>21                          | <b>Dir Section</b><br>W 27 | <b>Subsection</b><br>CDDADD | <b>Well Depth</b><br>71 ft.                                                                                                                          | <b>Depth Completed</b><br>71 ft.                                    | <b>Date Well Completed</b><br>09/28/1993  |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| <b>Elevation</b><br>908 ft.                                                                                                                                                                                                                                                                                                                                                                          | <b>Elev. Method</b><br>7.5 minute topographic map (+/- 5 feet) | <b>Drill Method</b><br>Non-specified Rotary |                            |                             |                                                                                                                                                      | <b>Drill Fluid</b><br>Bentonite                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| <b>Address</b><br><br>C/W 7790 250TH ST WYOMING MN 55092                                                                                                                                                                                                                                                                                                                                             |                                                                |                                             |                            |                             | <b>Use</b><br>domestic                                                                                                                               | <b>Status</b><br>Sealed                                             |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| <b>Stratigraphy Information</b>                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Well Hydrofractured?</b><br>Yes <input type="checkbox"/> No <input type="checkbox"/>                                                              | <b>From</b><br>To                                                   |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>SAND</td><td>0</td><td>3</td><td></td><td></td></tr><tr><td>CLAY</td><td>3</td><td>28</td><td>GRAY</td><td></td></tr><tr><td>CLAY &amp; GRAVEL</td><td>28</td><td>43</td><td></td><td></td></tr><tr><td>SAND &amp; GRAVEL</td><td>43</td><td>71</td><td></td><td></td></tr></table> |                                                                |                                             |                            |                             | Geological Material                                                                                                                                  | From                                                                | To (ft.)                                  | Color | Hardness | SAND | 0 | 3 |  |  | CLAY | 3 | 28 | GRAY |  | CLAY & GRAVEL | 28 | 43 |  |  | SAND & GRAVEL | 43 | 71 |  |  | <b>Casing Type</b><br>Single casing | <b>Joint</b><br>Threaded |  |
| Geological Material                                                                                                                                                                                                                                                                                                                                                                                  | From                                                           | To (ft.)                                    | Color                      | Hardness                    |                                                                                                                                                      |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| SAND                                                                                                                                                                                                                                                                                                                                                                                                 | 0                                                              | 3                                           |                            |                             |                                                                                                                                                      |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| CLAY                                                                                                                                                                                                                                                                                                                                                                                                 | 3                                                              | 28                                          | GRAY                       |                             |                                                                                                                                                      |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| CLAY & GRAVEL                                                                                                                                                                                                                                                                                                                                                                                        | 28                                                             | 43                                          |                            |                             |                                                                                                                                                      |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
| SAND & GRAVEL                                                                                                                                                                                                                                                                                                                                                                                        | 43                                                             | 71                                          |                            |                             |                                                                                                                                                      |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Drive Shoe?</b><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                            | <b>Above/Below</b>                                                  |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Casing Diameter</b><br>4 in. To 65 ft. 11 lbs./ft.                                                                                                | <b>Weight</b>                                                       | <b>Hole Diameter</b><br>6.2 in. To 68 ft. |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Open Hole</b><br>From ft. To ft.                                                                                                                  |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Screen?</b> <input checked="" type="checkbox"/> <b>Type</b> stainless                                                                             | <b>Make</b> JOHNSON                                                 |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Diameter</b> 2.5 in. <b>Slot/Gauze</b> 12 <b>Length</b> 6 ft. <b>Set</b> 65 ft. 71 ft.                                                            |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Static Water Level</b><br>12 ft. land surface                                                                                                     | <b>Measure</b>                                                      | 09/28/1993                                |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Pumping Level (below land surface)</b><br>40 ft. 3 hrs. Pumping at                                                                                | 25 g.p.m.                                                           |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Wellhead Completion</b><br>Pitless adapter manufacturer SNAPPY Model                                                                              |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <input type="checkbox"/> Casing Protection <input 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 |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Material</b> bentonite                                                                                                                            | <b>Amount</b> 0                                                     | <b>From</b> 0 ft. 30 ft.                  |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>cuttings</b>                                                                                                                                      | 0                                                                   | 30 ft. 68 ft.                             |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Nearest Known Source of Contamination</b><br>105 feet Southeast Direction                                                                         | <b>Septic tank/drain field</b> Type                                 |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No                                                           |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Pump</b> <input type="checkbox"/> Not Installed Date Installed 09/28/1993                                                                         |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Manufacturer's name RED JACKET                                                                                                                       |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Model Number SEW1 HP 0.5                                                                                                                             | Volt 230                                                            |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Length of drop pipe 40 ft Capacity 10 g.p.                                                                                                           | Typ Submersible                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Abandoned</b><br>Does property have any not in use and not sealed well(s)?                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Variance</b><br>Was a variance granted from the MDH for this well?                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No            |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Miscellaneous</b><br>First Bedrock                                                                                                                | <b>Aquifer</b> Quat. buried                                         |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Last Strat sand +larger                                                                                                                              | <b>Depth to Bedrock</b>                                             | ft                                        |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Located by Minnesota Geological Survey                                                                                                               |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or                                                                                   |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | System UTM - NAD83, Zone 15, Meters X 504108 Y 5017596                                                                                               |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Unique Number Verification Address verification                                                                                                      | Input Date 02/07/2008                                               |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Angled Drill Hole</b>                                                                                                                             |                                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | <b>Well Contractor</b><br>Mccullough & Sons 82054                                                                                                    | BEAUVAIS, T.                                                        |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |                                             |                            |                             | Lic. or Reg. No.                                                                                                                                     | Name of Driller                                                     |                                           |       |          |      |   |   |  |  |      |   |    |      |  |               |    |    |  |  |               |    |    |  |  |                                     |                          |  |