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County Mille Lacs  
Quad  
Quad ID

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

Entry Date12/04/2018  
Update Date12/04/2018  
Received Date11/05/2018

|                                   |  |  |  |  |                       |                    |                 |                     |                          |                                                                          |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|-----------------------------------|--|--|--|--|-----------------------|--------------------|-----------------|---------------------|--------------------------|--------------------------------------------------------------------------|--|--------------------------------------------------------|--|------------------------------------------|--|----------------------------------------|--|------------------------|--|---------------|--|----------------------|--|--------|--|
| <b>Well Name</b><br>OLSON, CRAIG  |  |  |  |  | <b>Township</b><br>41 | <b>Range</b><br>27 | <b>Dir</b><br>W | <b>Section</b><br>2 | <b>Subsection</b><br>DCC | <b>Well Depth</b><br>40 ft.                                              |  | <b>Depth Completed</b><br>40 ft.                       |  | <b>Date Well Completed</b><br>10/23/2018 |  |                                        |  |                        |  |               |  |                      |  |        |  |
| <b>Elevation</b>                  |  |  |  |  | <b>Elev. Method</b>   |                    |                 |                     |                          | <b>Drill Method</b><br>Non-specified Rotary                              |  | <b>Drill Fluid</b><br>Bentonite                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
| <b>Address</b>                    |  |  |  |  |                       |                    |                 |                     |                          | <b>Use</b><br>domestic                                                   |  | <b>Status</b><br>Active                                |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
| C/W35046 145TH AV ONAMIA MN 56359 |  |  |  |  |                       |                    |                 |                     |                          | <b>Well Hydrofractured?</b>                                              |  | Yes <input type="checkbox"/>                           |  | No <input checked="" type="checkbox"/>   |  | <b>From</b>                            |  | <b>To</b>              |  |               |  |                      |  |        |  |
| <b>Stratigraphy Information</b>   |  |  |  |  |                       |                    |                 |                     |                          | <b>Casing Type</b><br>Single casing                                      |  | <b>Joint</b>                                           |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
| <b>Drive Shoe?</b>                |  |  |  |  |                       |                    |                 |                     |                          | Yes <input type="checkbox"/>                                             |  | No <input checked="" type="checkbox"/>                 |  | <b>Above/Below</b>                       |  |                                        |  |                        |  |               |  |                      |  |        |  |
| <b>Geological Material</b>        |  |  |  |  |                       |                    |                 |                     |                          | <b>From</b>                                                              |  | <b>To (ft.)</b>                                        |  | <b>Color</b>                             |  | <b>Hardness</b>                        |  | <b>Casing Diameter</b> |  | <b>Weight</b> |  | <b>Hole Diameter</b> |  |        |  |
| SAND & ROCKS                      |  |  |  |  |                       |                    |                 |                     |                          | 0                                                                        |  | 17                                                     |  | BROWN                                    |  | SOFT                                   |  | 4 in. To               |  | 36 ft.        |  | 7.8 in. To           |  | 40 ft. |  |
| SAND & ROCKS                      |  |  |  |  |                       |                    |                 |                     |                          | 17                                                                       |  | 30                                                     |  | GRAY                                     |  | SOFT                                   |  |                        |  |               |  |                      |  |        |  |
| CLAY                              |  |  |  |  |                       |                    |                 |                     |                          | 30                                                                       |  | 31                                                     |  | BROWN                                    |  | MEDIUM                                 |  |                        |  |               |  |                      |  |        |  |
| SAND                              |  |  |  |  |                       |                    |                 |                     |                          | 31                                                                       |  | 40                                                     |  | GRAY                                     |  | SOFT                                   |  |                        |  |               |  |                      |  |        |  |
| GRANITE                           |  |  |  |  |                       |                    |                 |                     |                          | 40                                                                       |  | 40                                                     |  | RED                                      |  | HARD                                   |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Open Hole</b>                                                         |  | <b>From</b>                                            |  | <b>ft.</b>                               |  | <b>To</b>                              |  | <b>ft.</b>             |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Screen?</b> <input checked="" type="checkbox"/>                       |  | <b>Type</b><br>stainless                               |  | <b>Make</b><br>JOHNSON                   |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Diameter</b>                                                          |  | <b>Slot/Gauze</b>                                      |  | <b>Length</b>                            |  | <b>Set</b>                             |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | 4 in.                                                                    |  | 15                                                     |  | 4 ft.                                    |  | 36 ft.                                 |  | 40 ft.                 |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Static Water Level</b>                                                |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | 4 ft.                                                                    |  | null                                                   |  |                                          |  | Measure                                |  | 10/23/2018             |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Pumping Level (below land surface)</b>                                |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | 40 ft.                                                                   |  | 1 hrs.                                                 |  | Pumping at                               |  | 12                                     |  | g.p.m.                 |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Wellhead Completion</b>                                               |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Pitless adapter manufacturer                                             |  | MONITOR                                                |  | Model                                    |  | 12                                     |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <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 |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Material</b>                                                          |  | <b>Amount</b>                                          |  | <b>From</b>                              |  | <b>To</b>                              |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | bentonite                                                                |  | 5 Sacks                                                |  |                                          |  | ft. 30                                 |  | ft.                    |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Nearest Known Source of Contamination</b>                             |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | 155 feet                                                                 |  | South Direction                                        |  | Septic tank/drain field                  |  | Type                                   |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Well disinfected upon completion?                                        |  | <input type="checkbox"/> Yes                           |  | <input type="checkbox"/> No              |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Pump</b>                                                              |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <input type="checkbox"/> Not Installed                                   |  | Date Installed                                         |  | 10/31/2018                               |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Manufacturer's name                                                      |  | FLOWISE                                                |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Model Number                                                             |  | P10S05                                                 |  | HP                                       |  | 0.5                                    |  | Volt                   |  | 230           |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Length of drop pipe                                                      |  | 20 ft                                                  |  | Capacity                                 |  | 10 g.p.                                |  | Typ                    |  | Submersible   |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Abandoned</b>                                                         |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Does property have any not in use and not sealed well(s)?                |  | <input type="checkbox"/> Yes                           |  | <input checked="" type="checkbox"/> No   |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Variance</b>                                                          |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Was a variance granted from the MDH for this well?                       |  | <input type="checkbox"/> Yes                           |  | <input checked="" type="checkbox"/> No   |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Miscellaneous</b>                                                     |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | First Bedrock                                                            |  |                                                        |  | Aquifer                                  |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Last Strat                                                               |  |                                                        |  | Depth to Bedrock                         |  |                                        |  |                        |  |               |  |                      |  | ft     |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Located by                                                               |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Locate Method                                                            |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | System                                                                   |  | UTM - NAD83, Zone 15, Meters                           |  | X                                        |  | Y                                      |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Unique Number Verification                                               |  |                                                        |  |                                          |  | Input Date                             |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Angled Drill Hole</b>                                                 |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | <b>Well Contractor</b>                                                   |  |                                                        |  |                                          |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Mark J Traut Wells, Inc.                                                 |  | 1404                                                   |  | RATKE, P.                                |  |                                        |  |                        |  |               |  |                      |  |        |  |
|                                   |  |  |  |  |                       |                    |                 |                     |                          | Licensee Business                                                        |  | Lic. or Reg. No.                                       |  | Name of Driller                          |  |                                        |  |                        |  |               |  |                      |  |        |  |