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County Otter Tail  
Quad  
Quad ID

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

Entry Date  
Update Date 11/27/2017  
Received Date 11/06/2017

|                                                                          |                        |                                                        |                 |                      |                          |                                                                                                                                 |                                  |                                          |
|--------------------------------------------------------------------------|------------------------|--------------------------------------------------------|-----------------|----------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|
| <b>Well Name</b><br>JONES,                                               | <b>Township</b><br>137 | <b>Range</b><br>42                                     | <b>Dir</b><br>W | <b>Section</b><br>20 | <b>Subsection</b><br>DBD | <b>Well Depth</b><br>70 ft.                                                                                                     | <b>Depth Completed</b><br>68 ft. | <b>Date Well Completed</b><br>10/20/2017 |
| <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          |                                          |
| Contact 16817 17TH ST SE GARDNER ND 58036                                |                        |                                                        |                 |                      |                          | <b>Well Hydrofractured?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>From</b> <b>To</b>           |                                  |                                          |
| Well 23334 WASHBURN LA PELICAN RAPIDS MN 56572                           |                        |                                                        |                 |                      |                          | <b>Casing Type</b> Single casing <b>Joint</b>                                                                                   |                                  |                                          |
| <b>Stratigraphy Information</b>                                          |                        |                                                        |                 |                      |                          | <b>Drive Shoe?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>Above/Below</b>                       |                                  |                                          |
| Geological Material                                                      |                        | From                                                   | To (ft.)        | Color                | Hardness                 | <b>Casing Diameter</b> <b>Weight</b> <b>Hole Diameter</b>                                                                       |                                  |                                          |
| GRAVEL                                                                   |                        | 0                                                      | 12              | BROWN                | SOFT                     | 4 in. To 60 ft. 1.9 lbs./ft. 6.5 in. To 70 ft.                                                                                  |                                  |                                          |
| GRAVELLY CLAY                                                            |                        | 12                                                     | 60              | GRAY                 | MEDIUM                   |                                                                                                                                 |                                  |                                          |
| SAND                                                                     |                        | 60                                                     | 70              | GRAY                 | SOFT                     |                                                                                                                                 |                                  |                                          |
| <b>Open Hole</b>                                                         |                        |                                                        |                 |                      |                          | From                                                                                                                            | ft.                              | To                                       |
| <b>Screen?</b> <input checked="" type="checkbox"/>                       |                        |                                                        |                 |                      |                          | <b>Type</b> <b>Make</b> JOHNSON                                                                                                 |                                  |                                          |
| Diameter                                                                 |                        | Slot/Gauze                                             |                 | Length               |                          | Set                                                                                                                             |                                  |                                          |
| 4 in.                                                                    |                        | 10                                                     |                 | 8 ft.                |                          | ft. ft.                                                                                                                         |                                  |                                          |
| <b>Static Water Level</b>                                                |                        |                                                        |                 |                      |                          |                                                                                                                                 |                                  |                                          |
| 4 ft.                                                                    |                        | land surface                                           |                 | Measure              |                          | 10/20/2017                                                                                                                      |                                  |                                          |
| <b>Pumping Level (below land surface)</b>                                |                        |                                                        |                 |                      |                          |                                                                                                                                 |                                  |                                          |
| 68 ft.                                                                   |                        | 1 hrs.                                                 |                 | Pumping at           |                          | 40 g.p.m.                                                                                                                       |                                  |                                          |
| <b>Wellhead Completion</b>                                               |                        |                                                        |                 |                      |                          |                                                                                                                                 |                                  |                                          |
| Pitless adapter manufacturer                                             |                        | MONITOR                                                |                 | Model                |                          | 4AO                                                                                                                             |                                  |                                          |
| <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>                                              |                        |                                                        |                 |                      |                          | <b>Well Grouted?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified |                                  |                                          |
| Material                                                                 |                        | Amount                                                 |                 | From                 |                          | To                                                                                                                              |                                  |                                          |
| bentonite                                                                |                        | 3 Sacks                                                |                 | ft. 50               |                          | ft.                                                                                                                             |                                  |                                          |
| <b>Nearest Known Source of Contamination</b>                             |                        |                                                        |                 |                      |                          |                                                                                                                                 |                                  |                                          |
| 75 feet                                                                  |                        | East Direction                                         |                 |                      |                          | <b>Sewer Type</b>                                                                                                               |                                  |                                          |
| Well disinfected upon completion?                                        |                        |                                                        |                 |                      |                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                             |                                  |                                          |
| <b>Pump</b> <input type="checkbox"/> Not Installed                       |                        |                                                        |                 |                      |                          | <b>Date Installed</b> 10/20/2017                                                                                                |                                  |                                          |
| Manufacturer's name GRUNDFOS                                             |                        |                                                        |                 |                      |                          |                                                                                                                                 |                                  |                                          |
| Model Number                                                             |                        | SQ07-190                                               |                 | HP                   |                          | 0.75                                                                                                                            |                                  | Volt 240                                 |
| Length of drop pipe                                                      |                        | 40 ft                                                  |                 | Capacity             |                          | 15 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>                                                   |                        |                                                        |                 |                      |                          |                                                                                                                                 |                                  |                                          |
| Krueger Water Wells, Inc.                                                |                        | 2132                                                   |                 | KRUEGER, B.          |                          |                                                                                                                                 |                                  |                                          |
| Licensee Business                                                        |                        | Lic. or Reg. No.                                       |                 | Name of Driller      |                          |                                                                                                                                 |                                  |                                          |