

779925

County Renville  
Quad Lake Allie  
Quad ID 109D

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

Entry Date08/07/2013  
Update Date10/04/2013  
Received Date01/30/2013

|                                                                                                                                                                                                                                                                                                                                                                |  |                           |          |                                                                |                      |                                      |                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|----------|----------------------------------------------------------------|----------------------|--------------------------------------|--------------------------------------------------------------|
| <b>Well Name</b><br>RETTMAN, PAUL 116                                                                                                                                                                                                                                                                                                                          |  |                           |          | <b>Township</b><br>31                                          | <b>Range</b><br>W 34 | <b>Dir</b><br>CCADBD                 | <b>Subsection</b><br>7.5 minute topographic map (+/- 5 feet) |
| <b>Elevation</b><br>1053                                                                                                                                                                                                                                                                                                                                       |  |                           |          | <b>Elev. Method</b><br>7.5 minute topographic map (+/- 5 feet) |                      |                                      |                                                              |
| <b>Address</b>                                                                                                                                                                                                                                                                                                                                                 |  |                           |          |                                                                |                      |                                      |                                                              |
| Contact 55598 38 CR BUFFALO LAKE MN 55314                                                                                                                                                                                                                                                                                                                      |  |                           |          |                                                                |                      |                                      |                                                              |
| Well 55375 38 CR BUFFALO LAKE MN 55314                                                                                                                                                                                                                                                                                                                         |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Stratigraphy Information</b>                                                                                                                                                                                                                                                                                                                                |  |                           |          |                                                                |                      |                                      |                                                              |
| Geological Material                                                                                                                                                                                                                                                                                                                                            |  | From                      | To (ft.) | Color                                                          | Hardness             |                                      |                                                              |
| TOP SOIL                                                                                                                                                                                                                                                                                                                                                       |  | 0                         | 3        | BLACK                                                          |                      |                                      |                                                              |
| SANDY CLAY                                                                                                                                                                                                                                                                                                                                                     |  | 3                         | 14       | BROWN                                                          |                      |                                      |                                                              |
| SANDY CLAY                                                                                                                                                                                                                                                                                                                                                     |  | 14                        | 88       | GRAY                                                           |                      |                                      |                                                              |
| SANDY                                                                                                                                                                                                                                                                                                                                                          |  | 88                        | 95       | GRAY                                                           |                      |                                      |                                                              |
| SANDY CLAY                                                                                                                                                                                                                                                                                                                                                     |  | 95                        | 100      | GRAY                                                           |                      |                                      |                                                              |
| <b>Well Depth</b><br>100 ft.                                                                                                                                                                                                                                                                                                                                   |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Depth Completed</b><br>100 ft.                                                                                                                                                                                                                                                                                                                              |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Date Well Completed</b><br>01/30/2013                                                                                                                                                                                                                                                                                                                       |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Drill Method</b><br>Non-specified Rotary                                                                                                                                                                                                                                                                                                                    |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Drill Fluid</b><br>Bentonite                                                                                                                                                                                                                                                                                                                                |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Use</b><br>domestic                                                                                                                                                                                                                                                                                                                                         |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Status</b><br>Active                                                                                                                                                                                                                                                                                                                                        |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Well Hydrofractured?</b><br>Yes <input type="checkbox"/> No <input type="checkbox"/> From To                                                                                                                                                                                                                                                                |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Casing Type</b><br>Single casing                                                                                                                                                                                                                                                                                                                            |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Joint</b><br>Glued                                                                                                                                                                                                                                                                                                                                          |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Drive Shoe?</b><br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Above/Below                                                                                                                                                                                                                                                          |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Casing Diameter</b><br>4 in. To 87 ft.                                                                                                                                                                                                                                                                                                                      |  | <b>Weight</b><br>lbs./ft. |          | <b>Hole Diameter</b><br>8 in. To 100 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                                                                                                                                                                                                                                                                   |  |                           |          |                                                                |                      |                                      |                                                              |
| Diameter                                                                                                                                                                                                                                                                                                                                                       |  | Slot/Gauze                |          | Length                                                         |                      | Set                                  |                                                              |
| 4 in.                                                                                                                                                                                                                                                                                                                                                          |  | 20                        |          | 8 ft.                                                          |                      | 87 ft. 95 ft.                        |                                                              |
| <b>Static Water Level</b><br>-1 ft. land surface Measure 09/13/2012                                                                                                                                                                                                                                                                                            |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Pumping Level (below land surface)</b><br>19 ft. hrs. Pumping at 60 g.p.m.                                                                                                                                                                                                                                                                                  |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Wellhead Completion</b><br>Pitless adapter manufacturer MONITOR Model 6PS45BS4C0<br><input type="checkbox"/> Casing Protection <input type="checkbox"/> 12 in. above grade<br><input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)                                                                                                      |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Grouting Information</b><br>Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified                                                                                                                                                                                                        |  |                           |          |                                                                |                      |                                      |                                                              |
| Material                                                                                                                                                                                                                                                                                                                                                       |  | Amount                    |          | From                                                           |                      | To                                   |                                                              |
| neat cement                                                                                                                                                                                                                                                                                                                                                    |  | 20 Sacks                  |          | 7 ft.                                                          |                      | 79 ft.                               |                                                              |
| <b>Nearest Known Source of Contamination</b><br>36 feet Northeas Direction Sewer Type                                                                                                                                                                                                                                                                          |  |                           |          |                                                                |                      |                                      |                                                              |
| Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                          |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Pump</b> <input type="checkbox"/> Not Installed Date Installed 10/29/2012                                                                                                                                                                                                                                                                                   |  |                           |          |                                                                |                      |                                      |                                                              |
| Manufacturer's name SCHAEFER                                                                                                                                                                                                                                                                                                                                   |  |                           |          |                                                                |                      |                                      |                                                              |
| Model Number                                                                                                                                                                                                                                                                                                                                                   |  | 25LD15                    |          | HP 1.5                                                         |                      | Volt 230                             |                                                              |
| Length of drop pipe                                                                                                                                                                                                                                                                                                                                            |  | 42 ft                     |          | Capacity 25 g.p.                                               |                      | Typ                                  |                                                              |
| <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 checked="" type="checkbox"/> No                                                                                                                                                                                                                      |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Miscellaneous</b><br>First Bedrock Aquifer Quat. buried<br>Last Strat clay+sand-gray Depth to Bedrock ft<br>Located by Minnesota Geological Survey<br>Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or<br>System UTM - NAD83, Zone 15, Meters X 377041 Y 4962747<br>Unique Number Verification Address verification Input Date 09/19/2013 |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Angled Drill Hole</b>                                                                                                                                                                                                                                                                                                                                       |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Well Contractor</b><br>LTP Enterprises, Inc. 2157 GRIMM, G.<br>Licensee Business Lic. or Reg. No. Name of Driller                                                                                                                                                                                                                                           |  |                           |          |                                                                |                      |                                      |                                                              |
| <b>Minnesota Well Index Report</b>                                                                                                                                                                                                                                                                                                                             |  |                           |          | 779925                                                         |                      | Printed on 08/13/2026<br>HE-01205-15 |                                                              |