

579634

County Dakota  
Quad Hastings  
Quad ID 87A

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

Entry Date 04/10/2000  
Update Date 08/18/2014  
Received Date 12/21/1999

|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             |                                                                                                                                                                                                                                                             |  |  |  |                                   |  |  |  |                                                                |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|----------------------------------------------------------------|--------------------|-----------------|----------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------|--|--|--|----------------------------------------------------------------|--|--|--|
| <b>Well Name</b><br>REUTER, DON                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  | <b>Township</b><br>114                                         | <b>Range</b><br>16 | <b>Dir</b><br>W | <b>Section</b><br>19 | <b>Subsection</b><br>ADCBDC | <b>Well Depth</b><br>320 ft.                                                                                                                                                                                                                                |  |  |  | <b>Depth Completed</b><br>320 ft. |  |  |  | <b>Date Well Completed</b><br>01/07/1998                       |  |  |  |
| <b>Elevation</b><br>822 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 19555 PINE RIDGE RD HASTINGS MN 55033                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Use</b><br>domestic                                                                                                                                                                                                                                      |  |  |  | <b>Status</b><br>Active           |  |  |  |                                                                |  |  |  |
| <b>Stratigraphy Information</b><br>Geological Material From To (ft.) Color Hardness<br>SAND 0 100 BROWN SOFT<br>SAND/GRAVEL 100 190 BROWN SOFT<br>SAND 190 280 RED MEDIUM<br>GRAVEL-BOULDER 280 295 BROWN HARD<br>SANDSTONE 295 320 GREEN MEDIUM                                                                                                                                                          |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Well Hydrofractured?</b><br><b>Yes</b> <input type="checkbox"/> <b>No</b> <input type="checkbox"/>                                                                                                                                                       |  |  |  | <b>From</b><br><b>To</b>          |  |  |  |                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Casing Type</b><br>Single casing                                                                                                                                                                                                                         |  |  |  | <b>Joint</b><br>Welded            |  |  |  |                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Drive Shoe?</b><br><b>Yes</b> <input checked="" type="checkbox"/> <b>No</b> <input type="checkbox"/>                                                                                                                                                     |  |  |  | <b>Above/Below</b>                |  |  |  |                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Casing Diameter</b><br>4 in. To 297 ft.                                                                                                                                                                                                                  |  |  |  | <b>Weight</b><br>10.79 lbs./ft.   |  |  |  | <b>Hole Diameter</b><br>6.2 in. To 297 ft.<br>4 in. To 320 ft. |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Open Hole</b><br>From 297 ft. To 320 ft.                                                                                                                                                                                                                 |  |  |  |                                   |  |  |  |                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Screen?</b> <input type="checkbox"/>                                                                                                                                                                                                                     |  |  |  | <b>Type</b><br><b>Make</b>        |  |  |  |                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Static Water Level</b><br>113 ft. land surface Measure 11/07/1997                                                                                                                                                                                        |  |  |  |                                   |  |  |  |                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Pumping Level (below land surface)</b>                                                                                                                                                                                                                   |  |  |  |                                   |  |  |  |                                                                |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |                                                                |                    |                 |                      |                             | <b>Wellhead Completion</b><br>Pitless adapter manufacturer MAASE Model 4J1<br><input type="checkbox"/> Casing Protection <input checked="" 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<br>Material Amount From To<br>bentonite 4 Sacks 0 ft. 30 ft.<br>bentonite 12 Sacks 30 ft. 297 ft.   |  |  |  |                                   |  |  |  |                                                                |  |  |  |
| <b>Nearest Known Source of Contamination</b><br>105 feet Northwes Direction Septic tank/drain field Type<br>Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                         |  |  |  |  |                                                                |                    |                 |                      |                             |                                                                                                                                                                                                                                                             |  |  |  |                                   |  |  |  |                                                                |  |  |  |
| <b>Pump</b> <input type="checkbox"/> Not Installed Date Installed 11/07/1997<br>Manufacturer's name RED JACKET<br>Model Number 75CNS1 HP 0.75 Volt 230<br>Length of drop pipe 147 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 checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                 |  |  |  |  |                                                                |                    |                 |                      |                             |                                                                                                                                                                                                                                                             |  |  |  |                                   |  |  |  |                                                                |  |  |  |
| <b>Miscellaneous</b><br>First Bedrock Tunnel CItY/Lone Rock Fm Aquifer Tunnel CItY/Lone<br>Last Strat Tunnel CItY/Lone Rock Fm Depth to Bedrock 295 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 517708 Y 4945970<br>Unique Number Verification Address verification Input Date 08/19/2005 |  |  |  |  |                                                                |                    |                 |                      |                             |                                                                                                                                                                                                                                                             |  |  |  |                                   |  |  |  |                                                                |  |  |  |
| <b>Angled Drill Hole</b>                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |                                                                |                    |                 |                      |                             |                                                                                                                                                                                                                                                             |  |  |  |                                   |  |  |  |                                                                |  |  |  |
| <b>Well Contractor</b><br>Carlson Well Maher,t 19302 BOB/PAUL<br>Licensee Business Lic. or Reg. No. Name of Driller                                                                                                                                                                                                                                                                                       |  |  |  |  |                                                                |                    |                 |                      |                             |                                                                                                                                                                                                                                                             |  |  |  |                                   |  |  |  |                                                                |  |  |  |
| <b>Remarks</b>                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |  |                                                                |                    |                 |                      |                             |                                                                                                                                                                                                                                                             |  |  |  |                                   |  |  |  |                                                                |  |  |  |