

767177

County Fillmore  
Quad Bratsberg  
Quad ID 4A

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

Entry Date 12/04/2009  
Update Date 11/19/2013  
Received Date 02/01/2010

|                                                                                                                                                                                                                                        |  |                                                    |          |                                           |                                   |                   |                                          |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|----------|-------------------------------------------|-----------------------------------|-------------------|------------------------------------------|-----------------------------|
| <b>Well Name</b><br>MOE, CARMEN                                                                                                                                                                                                        |  |                                                    |          |                                           | <b>Township</b><br>103            | <b>Range</b><br>8 | <b>Dir Section</b><br>W 31               | <b>Subsection</b><br>CCBCCC |
| <b>Elevation</b><br>1140                                                                                                                                                                                                               |  | <b>Elev. Method</b><br>CALC FROM 2-FOOT COUNTY DEM |          |                                           |                                   |                   |                                          |                             |
| <b>Address</b><br>Well 401ST & CHESTNUT LM WHALAN MN                                                                                                                                                                                   |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| <b>Stratigraphy Information</b>                                                                                                                                                                                                        |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| Geological Material                                                                                                                                                                                                                    |  | From                                               | To (ft.) | Color                                     | Hardness                          |                   |                                          |                             |
| DRIFT                                                                                                                                                                                                                                  |  | 0                                                  | 10       |                                           |                                   |                   |                                          |                             |
| SANDROCK                                                                                                                                                                                                                               |  | 10                                                 | 35       | BROWN                                     |                                   |                   |                                          |                             |
| ROCK                                                                                                                                                                                                                                   |  | 35                                                 | 190      | GRAY                                      |                                   |                   |                                          |                             |
| ROCK                                                                                                                                                                                                                                   |  | 190                                                | 240      | BROWN                                     |                                   |                   |                                          |                             |
| SANDROCK                                                                                                                                                                                                                               |  | 240                                                | 340      | BROWN                                     |                                   |                   |                                          |                             |
| <b>Well Depth</b><br>340 ft.                                                                                                                                                                                                           |  |                                                    |          |                                           | <b>Depth Completed</b><br>340 ft. |                   | <b>Date Well Completed</b><br>09/10/2009 |                             |
| <b>Drill Method</b><br>Non-specified Rotary                                                                                                                                                                                            |  | <b>Drill Fluid</b><br>Foam                         |          |                                           |                                   |                   |                                          |                             |
| <b>Use</b><br>domestic                                                                                                                                                                                                                 |  |                                                    |          |                                           | <b>Status</b><br>Active           |                   |                                          |                             |
| <b>Well Hydrofractured?</b><br>Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                                                                                                                                     |  |                                                    |          |                                           | <b>From</b><br>To                 |                   |                                          |                             |
| <b>Casing Type</b><br>Step down                                                                                                                                                                                                        |  |                                                    |          |                                           | <b>Joint</b><br>Welded            |                   |                                          |                             |
| <b>Drive Shoe?</b><br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                              |  |                                                    |          |                                           | <b>Above/Below</b>                |                   |                                          |                             |
| <b>Casing Diameter</b><br>5 in. To 295 ft.                                                                                                                                                                                             |  | <b>Weight</b><br>lbs./ft.                          |          | <b>Hole Diameter</b><br>10 in. To 295 ft. |                                   |                   |                                          |                             |
| 10 in. To 40 ft.                                                                                                                                                                                                                       |  | lbs./ft.                                           |          | 5 in. To 340 ft.                          |                                   |                   |                                          |                             |
| <b>Open Hole</b><br>From 295 ft. To 340 ft.                                                                                                                                                                                            |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| <b>Screen?</b> <input type="checkbox"/>                                                                                                                                                                                                |  |                                                    |          |                                           | <b>Type</b><br>Make               |                   |                                          |                             |
| <b>Static Water Level</b><br>60 ft. land surface Measure 09/10/2009                                                                                                                                                                    |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| <b>Pumping Level (below land surface)</b><br>120 ft. 2 hrs. Pumping at 10 g.p.m.                                                                                                                                                       |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| <b>Wellhead Completion</b><br>Pitless adapter manufacturer Model<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                                                                                                                                                                                                                            |  | 6 Cubic yards                                      |          | 6 ft.                                     |                                   | 295 ft.           |                                          |                             |
| pearock                                                                                                                                                                                                                                |  | 3 Cubic yards                                      |          | ft.                                       |                                   | ft.               |                                          |                             |
| <b>Nearest Known Source of Contamination</b><br>feet Direction Type                                                                                                                                                                    |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| Well disinfected upon completion? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                  |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| <b>Pump</b> <input checked="" type="checkbox"/> Not Installed Date Installed                                                                                                                                                           |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| Manufacturer's name                                                                                                                                                                                                                    |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| Model Number                                                                                                                                                                                                                           |  | HP                                                 |          | Volt                                      |                                   |                   |                                          |                             |
| Length of drop pipe                                                                                                                                                                                                                    |  | ft Capacity                                        |          | 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>                                                                                                                                                                                                                   |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| First Bedrock                                                                                                                                                                                                                          |  | Prairie Du Chien Group                             |          | Aquifer                                   |                                   | Jordan            |                                          |                             |
| Last Strat                                                                                                                                                                                                                             |  | Jordan Sandstone                                   |          | Depth to Bedrock                          |                                   | 10 ft             |                                          |                             |
| Located by Minnesota Department of Health                                                                                                                                                                                              |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or                                                                                                                                                                     |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| System                                                                                                                                                                                                                                 |  | UTM - NAD83, Zone 15, Meters                       |          | X 592708                                  |                                   | Y 4836504         |                                          |                             |
| Unique Number Verification                                                                                                                                                                                                             |  | Info/GPS from data                                 |          | Input Date                                |                                   | 12/03/2009        |                                          |                             |
| <b>Angled Drill Hole</b>                                                                                                                                                                                                               |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| <b>Well Contractor</b>                                                                                                                                                                                                                 |  |                                                    |          |                                           |                                   |                   |                                          |                             |
| Larson Well Drilling                                                                                                                                                                                                                   |  | 2029                                               |          | LARSON, R.                                |                                   |                   |                                          |                             |
| Licensee Business                                                                                                                                                                                                                      |  | Lic. or Reg. No.                                   |          | Name of Driller                           |                                   |                   |                                          |                             |