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

Entry Date08/15/2013  
Update Date08/15/2013  
Received Date01/18/2013

|                                            |                |             |          |               |                   |                                                                                                                               |                            |                                   |
|--------------------------------------------|----------------|-------------|----------|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------|
| Well Name<br>CARLSON,                      | Township<br>35 | Range<br>21 | Dir<br>W | Section<br>35 | Subsection<br>CCC | Well Depth<br>170 ft.                                                                                                         | Depth Completed<br>170 ft. | Date Well Completed<br>04/19/2012 |
| Elevation                                  | Elev. Method   |             |          |               |                   | Drill Method<br>Non-specified Rotary                                                                                          | Drill Fluid<br>Bentonite   |                                   |
| Address                                    |                |             |          |               |                   | Use<br>domestic                                                                                                               | Status<br>Active           |                                   |
| C/W<br>8590 360TH ST NORTH BRANCH MN 55056 |                |             |          |               |                   | Well Hydrofractured?<br>Yes <input type="checkbox"/> No <input type="checkbox"/> From To                                      |                            |                                   |
| Stratigraphy Information                   |                |             |          |               |                   | Casing Type<br>Single casing Joint                                                                                            |                            |                                   |
|                                            |                |             |          |               |                   | Drive Shoe?<br>Yes <input type="checkbox"/> No <input type="checkbox"/> Above/Below                                           |                            |                                   |
| Geological Material                        |                |             |          |               |                   | Casing Diameter                                                                                                               |                            |                                   |
| From                                       |                |             |          |               |                   | Weight                                                                                                                        |                            |                                   |
| To (ft.)                                   |                |             |          |               |                   | Hole Diameter                                                                                                                 |                            |                                   |
| Color                                      |                |             |          |               |                   | 8 in. To 50 ft.                                                                                                               |                            |                                   |
| Hardness                                   |                |             |          |               |                   | 6.5 in. To 170 ft.                                                                                                            |                            |                                   |
| SANDY CLAY                                 |                |             |          |               |                   |                                                                                                                               |                            |                                   |
| CLAY                                       |                |             |          |               |                   |                                                                                                                               |                            |                                   |
| SAND                                       |                |             |          |               |                   |                                                                                                                               |                            |                                   |
| CLAY                                       |                |             |          |               |                   |                                                                                                                               |                            |                                   |
| CLAY                                       |                |             |          |               |                   |                                                                                                                               |                            |                                   |
| SAND & GRAVEL                              |                |             |          |               |                   |                                                                                                                               |                            |                                   |
|                                            |                |             |          |               |                   | Open Hole                                                                                                                     |                            |                                   |
|                                            |                |             |          |               |                   | From ft. To ft.                                                                                                               |                            |                                   |
|                                            |                |             |          |               |                   | Screen? <input checked="" type="checkbox"/> Type plastic Make BIG FOOT                                                        |                            |                                   |
|                                            |                |             |          |               |                   | Diameter Slot/Gauze Length Set                                                                                                |                            |                                   |
|                                            |                |             |          |               |                   | 4 in. 15 10 ft. 160 ft. 170 ft.                                                                                               |                            |                                   |
|                                            |                |             |          |               |                   | Static Water Level                                                                                                            |                            |                                   |
|                                            |                |             |          |               |                   | 32 ft. land surface Measure 04/13/2012                                                                                        |                            |                                   |
|                                            |                |             |          |               |                   | Pumping Level (below land surface)                                                                                            |                            |                                   |
|                                            |                |             |          |               |                   | 50 ft. 1 hrs. Pumping at 30 g.p.m.                                                                                            |                            |                                   |
|                                            |                |             |          |               |                   | Wellhead Completion                                                                                                           |                            |                                   |
|                                            |                |             |          |               |                   | Pitless adapter manufacturer SNAPPY Model                                                                                     |                            |                                   |
|                                            |                |             |          |               |                   | <input type="checkbox"/> Casing Protection <input checked="" type="checkbox"/> 12 in. above grade                             |                            |                                   |
|                                            |                |             |          |               |                   | <input type="checkbox"/> At-grade (Environmental Wells and Borings ONLY)                                                      |                            |                                   |
|                                            |                |             |          |               |                   | Grouting Information                                                                                                          |                            |                                   |
|                                            |                |             |          |               |                   | Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified      |                            |                                   |
|                                            |                |             |          |               |                   | Material Amount From To                                                                                                       |                            |                                   |
|                                            |                |             |          |               |                   | high solids bentonite 4 Sacks ft. 50 ft.                                                                                      |                            |                                   |
|                                            |                |             |          |               |                   | Nearest Known Source of Contamination                                                                                         |                            |                                   |
|                                            |                |             |          |               |                   | 52 feet Northeas Direction Other Type                                                                                         |                            |                                   |
|                                            |                |             |          |               |                   | Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No                                    |                            |                                   |
|                                            |                |             |          |               |                   | Pump <input type="checkbox"/> Not Installed Date Installed 04/19/2012                                                         |                            |                                   |
|                                            |                |             |          |               |                   | Manufacturer's name SCHAEFER                                                                                                  |                            |                                   |
|                                            |                |             |          |               |                   | Model Number FM152- HP 1.5 Volt 230                                                                                           |                            |                                   |
|                                            |                |             |          |               |                   | Length of drop pipe 70 ft Capacity 20 g.p. Typ Submersible                                                                    |                            |                                   |
|                                            |                |             |          |               |                   | Abandoned                                                                                                                     |                            |                                   |
|                                            |                |             |          |               |                   | Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                            |                                   |
|                                            |                |             |          |               |                   | Variance                                                                                                                      |                            |                                   |
|                                            |                |             |          |               |                   | Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No        |                            |                                   |
|                                            |                |             |          |               |                   | Miscellaneous                                                                                                                 |                            |                                   |
|                                            |                |             |          |               |                   | First Bedrock                                                                                                                 |                            |                                   |
|                                            |                |             |          |               |                   | Last Strat                                                                                                                    |                            |                                   |
|                                            |                |             |          |               |                   | Aquifer                                                                                                                       |                            |                                   |
|                                            |                |             |          |               |                   | Depth to Bedrock ft                                                                                                           |                            |                                   |
|                                            |                |             |          |               |                   | Located by                                                                                                                    |                            |                                   |
|                                            |                |             |          |               |                   | Locate Method                                                                                                                 |                            |                                   |
|                                            |                |             |          |               |                   | System UTM - NAD83, Zone 15, Meters X Y                                                                                       |                            |                                   |
|                                            |                |             |          |               |                   | Unique Number Verification Input Date                                                                                         |                            |                                   |
|                                            |                |             |          |               |                   | Angled Drill Hole                                                                                                             |                            |                                   |
|                                            |                |             |          |               |                   | Well Contractor                                                                                                               |                            |                                   |
|                                            |                |             |          |               |                   | Schroepfer Well Drilling, Inc. 2115 SCHROEPFER, T                                                                             |                            |                                   |
|                                            |                |             |          |               |                   | Licensee Business Lic. or Reg. No. Name of Driller                                                                            |                            |                                   |