

Minnesota Unique Well Number

841521

County Cottonwoo  
Quad Darfur  
Quad ID 59D

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

Entry Date 12/11/2019  
Update Date 07/08/2024  
Received Date 11/15/2019

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|---------|-----------------------------------|--|-------------|--|--------------------|--|----------------------|--|--------------------------------------|------|----------------------------|---------|-----------------------------------|----------|---|---|-------|------|------|---|----|--------|--------|------|----|----|-------|--------|------|----|----|------|--------|-----------|----|----|-------|------|-----------|----|----|------|------|-----------|----|----|---------|------|-----------|----|----|------|------|-----------|----|-----|---------|------|----------------------------------------------------------------------------------|--|------|--|----|--|--|--|
| Well Name<br>SCHWARTZ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                    |         | Township<br>106                   |  | Range<br>34 |  | Dir Section<br>W 1 |  | Subsection<br>CDCCCD |  | Well Depth<br>605 ft.                |      | Depth Completed<br>605 ft. |         | Date Well Completed<br>08/28/2019 |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Elevation<br>1214                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    | Elev. Method       |         | LiDAR 1m DEM (MNDNR)              |  |             |  |                    |  |                      |  | Drill Method<br>Non-specified Rotary |      | Drill Fluid<br>Bentonite   |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Address<br>Well 60424 330TH ST MOUNTAIN LAKE MN 56159                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                    |         |                                   |  |             |  |                    |  |                      |  | Use<br>industrial /commercial        |      | Status<br>Active           |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| <b>Stratigraphy Information</b> <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>TOP SOIL</td><td>0</td><td>3</td><td>BLACK</td><td>SOFT</td></tr><tr><td>CLAY</td><td>3</td><td>23</td><td>YELLOW</td><td>MEDIUM</td></tr><tr><td>CLAY</td><td>23</td><td>29</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>CLAY</td><td>29</td><td>32</td><td>BLUE</td><td>MEDIUM</td></tr><tr><td>SANDSTONE</td><td>32</td><td>39</td><td>BROWN</td><td>HARD</td></tr><tr><td>SANDSTONE</td><td>39</td><td>43</td><td>PINK</td><td>HARD</td></tr><tr><td>QUARTZITE</td><td>43</td><td>48</td><td>DK. PNK</td><td>HARD</td></tr><tr><td>SANDSTONE</td><td>48</td><td>78</td><td>PINK</td><td>HARD</td></tr><tr><td>QUARTZITE</td><td>78</td><td>605</td><td>DK. PNK</td><td>HARD</td></tr></table> |    |                    |         |                                   |  |             |  |                    |  |                      |  | Geological Material                  | From | To (ft.)                   | Color   | Hardness                          | TOP SOIL | 0 | 3 | BLACK | SOFT | CLAY | 3 | 23 | YELLOW | MEDIUM | CLAY | 23 | 29 | BROWN | MEDIUM | CLAY | 29 | 32 | BLUE | MEDIUM | SANDSTONE | 32 | 39 | BROWN | HARD | SANDSTONE | 39 | 43 | PINK | HARD | QUARTZITE | 43 | 48 | DK. PNK | HARD | SANDSTONE | 48 | 78 | PINK | HARD | QUARTZITE | 78 | 605 | DK. PNK | HARD | Well Hydrofractured?<br>Yes <input type="checkbox"/> No <input type="checkbox"/> |  | From |  | To |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | Geological Material                  | From | To (ft.)                   | Color   | Hardness                          |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | TOP SOIL                             | 0    | 3                          | BLACK   | SOFT                              |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | CLAY                                 | 3    | 23                         | YELLOW  | MEDIUM                            |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | CLAY                                 | 23   | 29                         | BROWN   | MEDIUM                            |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | CLAY                                 | 29   | 32                         | BLUE    | MEDIUM                            |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | SANDSTONE                            | 32   | 39                         | BROWN   | HARD                              |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | SANDSTONE                            | 39   | 43                         | PINK    | HARD                              |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | QUARTZITE                            | 43   | 48                         | DK. PNK | HARD                              |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  | SANDSTONE                            | 48   | 78                         | PINK    | HARD                              |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| QUARTZITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 78 | 605                | DK. PNK | HARD                              |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Casing Type<br>Single casing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    | Joint              |         | Welded                            |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Drive Shoe?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    | Above/Below        |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Casing Diameter<br>6 in. To 84 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    | Weight<br>lbs./ft. |         | Hole Diameter<br>10 in. To 83 ft. |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         | 8 in. To 84 ft.                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         | 6 in. To 605 ft.                  |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Open Hole<br>Screen? <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    | From 84 ft.        |         | To 605 ft.                        |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    | Type               |         | Make                              |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Static Water Level<br>12 ft. land surface Measure 10/28/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Pumping Level (below land surface)<br>30 ft. 2 hrs. Pumping at 60 g.p.m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Wellhead Completion<br>Pitless adapter manufacturer MAASS 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)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Grouting Information<br>Well Grouted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Specified<br>Material Amount From To<br>high solids bentonite 6 Sacks ft. 84 ft.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Nearest Known Source of Contamination<br>200 feet South Direction Barnyard Type<br>Well disinfected upon completion? <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Pump<br><input type="checkbox"/> Not Installed Date Installed 10/29/2019<br>Manufacturer's name FLOWISE<br>Model Number P35S30 HP 3 Volt 230<br>Length of drop pipe 100 ft Capacity 30 g.p. Typ Submersible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Abandoned<br>Does property have any not in use and not sealed well(s)? <input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Variance<br>Was a variance granted from the MDH for this well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Miscellaneous<br>First Bedrock Cretaceous undiff. Aquifer<br>Last Strat Sioux Quartzite Depth to Bedrock 32 ft<br>Located by Minnesota Department of Health<br>Locate Method GPS SA Off (averaged) (15 meters)<br>System UTM - NAD83, Zone 15, Meters X 349800 Y 4874363<br>Unique Number Verification Info/GPS from data Input Date 08/28/2019                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Angled Drill Hole                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |
| Well Contractor<br>Steffl Drilling and Pump, Inc. 1551 VANHEUVELN, K<br>Licensee Business Lic. or Reg. No. Name of Driller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                    |         |                                   |  |             |  |                    |  |                      |  |                                      |      |                            |         |                                   |          |   |   |       |      |      |   |    |        |        |      |    |    |       |        |      |    |    |      |        |           |    |    |       |      |           |    |    |      |      |           |    |    |         |      |           |    |    |      |      |           |    |     |         |      |                                                                                  |  |      |  |    |  |  |  |

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