

**SPECIFICATION**

**SKYLINE RANCH**

**WATER SUPPLY WELL FOR FIRE  
SUPPRESSION**

**TETON COUNTY, IDAHO**

**Prepared by  
Clearwater Geosciences, LLP**

**for**

**Skyline Ranch**

**November 2023**





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## **GENERAL**

### **Background**

The Skyline Ranch Project Site is in the Teton Valley, 5 miles southwest of Driggs and ~ $\frac{1}{4}$  mile northwest of the intersection of W 2250 South and S 5000 West. Maps of the location for the well are shown in Exhibits A, B and C. This specification is for a new fire water supply well to supply a minimum of 500 GPM. The well will be drilled as described in the attached documents.

Please contact Tom Wood (208) 589-5555 for assistance getting the drilling permit.

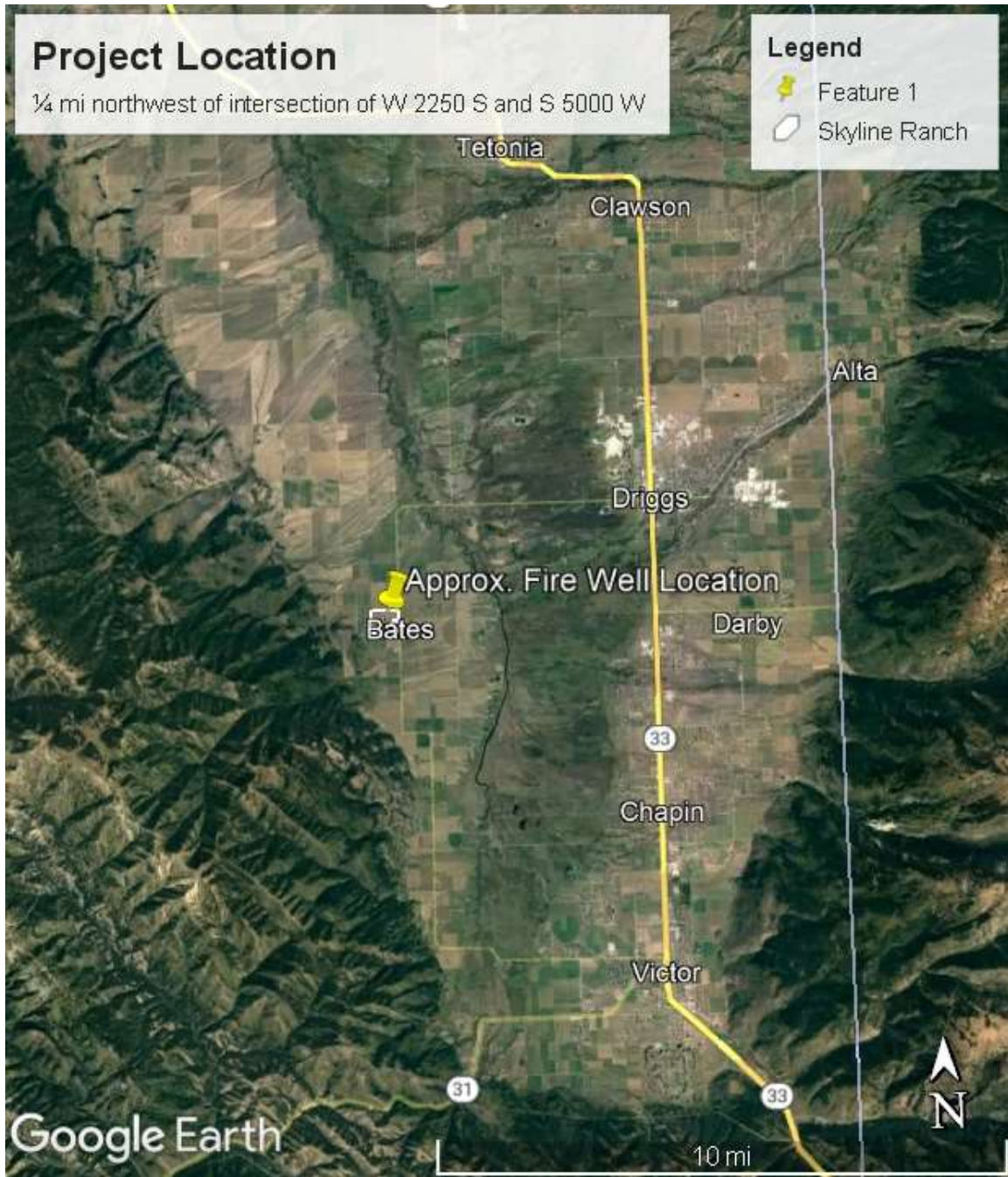


Exhibit A. General location map for Skyline Ranch Development.



**Exhibit B.** Driving access to Skyline Ranch Development.



**Exhibit C.** Approximate location for Fire Well.



## **Well Specification**

### **Skyline Ranch Development Fire Water Supply Well**

This specification is for drilling a fire water well for the Skyline Ranch Development. The Teton County Fire Marshal has specified that the water supply well should provide a minimum of 500 gpm with less than 5 ppm sand.

The local geology is anticipated to be a sequence of gravel and clay to the total depth of the well. Several of the deep well logs near this area are provided in Attachment 1. Two wells within ½ mile of the site are of interest. The 400 ft deep Bruxton well was drilled to 400 ft and perforated from 84 to 400 ft is listed as making 2000 gpm and the Jay Dell Bruxton well drilled to 296 ft made 1200 gpm and perforated from 124 to 250 ft. These two wells give encouragement that the design provided herein can make the necessary 500 gpm.

It is the driller's responsibility to be aware of the drilling conditions in this area and to plan drilling and construction accordingly.

#### **Well Drilling and Testing**

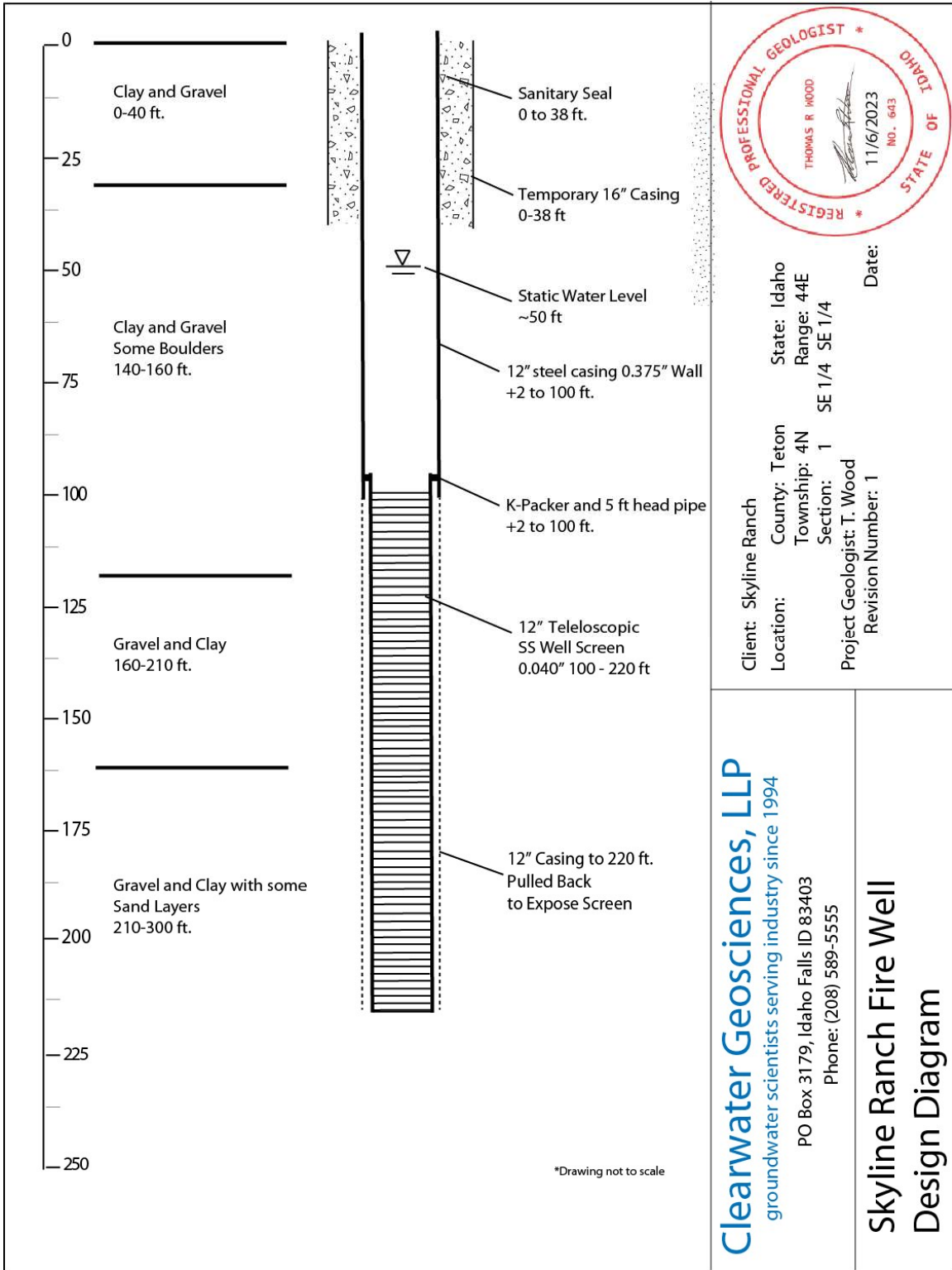
##### **Well Drilling.**

1. Drill or under ream 16-inch casing to 38 ft. or until a minimum of 500 GPM flow is produced with rig air.
2. Drill or under ream 12-inch casing to 220 ft. or until a minimum of 500 GPM flow is produced with rig air.
3. Set 120 ft of 12-inch telescopic, stainless steel, wire-wrapped well screen with 40 thousand slots from 220 to 100 ft or across water bearing zones. The screen 5 ft riser pipe shall be outfitted with a K-Packer and the screen installed by pulling the 12-casing back to expose the well screen.
4. Install bentonite chip sanitary seal from top of sand pack to land surface while simultaneously pulling the 16-inch casing.
5. Using rig air develop the well.
6. Perform step test and a continuous 6-hour pumping test at a pumping rate of 500 gpm. Install a flow meter or orifice plate with manometer and measure flow at 30-minute intervals. The pumping test shall be witnessed by the Geologist. A down hole data logger will be installed by the geologist during the pumping test to monitor water levels during testing.
7. Sand content will also be measured during the testing. The sand content must be less than 5 ppm within 15 minutes after start up.
8. Assume that the water will need to be piped 200 ft west from the well to a location approved by the owner.



| Item Number and Description |  | Quantity                    |     | Total Amount |     |         |
|-----------------------------|--|-----------------------------|-----|--------------|-----|---------|
|                             |  | Unit Price Written in Words |     | Dollars      | Cts | Dollars |
| <b>Skyline Ranch</b>        |  |                             |     |              |     |         |
| SP-1                        | - Mobilization/Demobilization  | 1 L.S.                      |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-2                        | - Furnish, Install, Remove Temporary 16-Inch Casing                                  | 38 L.F.                     |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-3                        | - 12-inch Under Reaming Drilling   | 182 L.F.                    |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-4                        | - Furnish, Install 12-inch Well Casing   | 220 L.F.                    |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-5                        | - Furnish, Install 12-inch Stainless Steel Wire Wrapped Well Screen, 0.040-Inch Slot | 120 L.F.                    |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-6                        | - Sanitary Seal - Bentonite Chips  | 40 C.F.                     |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-7                        | - Well Development with Rig Air  | 8 HOUR                      |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-8                        | - Pump Test Mobilization/Demobilization  | 1 L.S.                      |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-9                        | - Test Pumping and Development   | 12 HOUR                     |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-10                       | -  | 0                           | 0 0 |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-11                       | -  |                             |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| SP-12                       | -  |                             |     |              |     |         |
|                             |  | \$                          |     | \$           |     |         |
| <b>TOTAL BID</b>            |  |                             |     | \$           |     |         |







## **Attachment A**

# **Well Driller Logs in the Vicinity of Skyline Ranch Facility**



Form 2387 \*  
1/78

USE TYPEWRITER OR  
BALLPOINT PEN

STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**WELL DRILLER'S REPORT**

State law requires that this report be filed with the Director, Department of Water Resources  
within 30 days after the completion or abandonment of the well.

| <p><b>1. WELL OWNER</b><br/>Name <u>J.D. Buxton</u><br/>Address <u>Driggs, Idaho 83422</u><br/>Owner's Permit No. <u>22-7309</u></p>   | <p><b>7. WATER LEVEL</b><br/>Static water level <u>60</u> feet below land surface.<br/>Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____<br/>Artesian closed-in pressure _____ p.s.i.<br/>Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug<br/>Temperature _____ °F. Quality _____</p>  |                  |                             |              |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
|--|--|------------------|-----------------------------|--------------|-------------|------------|----------------|------|----|-----|----|-----|---|---|----------|--|---|---|---|----|-----------------|--|---|---|----|----|----------|--|---|---|----|----|-----------------|--|---|---|----|----|------|--|---|---|----|----|-----------------|---|--|---|----|-----|-----------------|---|--|---|-----|-----|------|--|---|---|-----|-----|-----------------|---|--|---|-----|-----|----------|--|---|---|-----|-----|-----------------|---|--|---|-----|-----|------|--|---|---|-----|-----|-----------------|---|--|---|-----|-----|-------------------|--|---|---|-----|-----|----------------------------|---|--|---|-----|-----|------|--|---|---|-----|-----|--------------------------|---|--|---|-----|-----|------|--|---|---|-----|-----|--------|---|--|---|-----|-----|--------------------|--|---|---|-----|-----|--------|---|--|---|-----|-----|------|--|---|---|-----|-----|--------|---|--|---|-----|-----|--------------------|--|---|---|-----|-----|--------|---|--|---|-----|-----|------|--|---|---|-----|-----|-----------------------------|---|--|---|-----|-----|------|--|---|---|-----|-----|-------------------|---|--|---|-----|-----|------|--|---|
| <p><b>2. NATURE OF WORK</b><br/><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement<br/><input type="checkbox"/> Abandoned (describe method of abandoning) _____</p>   | <p><b>8. WELL TEST DATA</b><br/><input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input type="checkbox"/> Air <input type="checkbox"/> Other _____</p> <table border="1"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td><u>2000</u></td> <td><u>180</u></td> <td><u>10 hrs.</u></td> </tr> </table>  | Discharge G.P.M. | Pumping Level               | Hours Pumped | <u>2000</u> | <u>180</u> | <u>10 hrs.</u> |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| Discharge G.P.M.   | Pumping Level  | Hours Pumped     |                             |              |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <u>2000</u>  | <u>180</u>   | <u>10 hrs.</u>   |                             |              |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <p><b>3. PROPOSED USE</b><br/><input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal<br/><input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection<br/><input type="checkbox"/> Other _____ (specify type)</p>  | <p><b>9. LITHOLOGIC LOG</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Hole Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>20"</td><td>0</td><td>4</td><td>Top Soil</td><td></td><td>X</td></tr> <tr><td>"</td><td>4</td><td>24</td><td>Gravel and Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>24</td><td>68</td><td>Red Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>68</td><td>75</td><td>Gravel and Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>75</td><td>84</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>84</td><td>88</td><td>Gravel and Clay</td><td>X</td><td></td></tr> <tr><td>"</td><td>88</td><td>104</td><td>Gravel and Clay</td><td>X</td><td></td></tr> <tr><td>"</td><td>104</td><td>109</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>109</td><td>120</td><td>Gravel and Clay</td><td>X</td><td></td></tr> <tr><td>"</td><td>120</td><td>174</td><td>Clay Red</td><td></td><td>X</td></tr> <tr><td>"</td><td>174</td><td>183</td><td>Cemented Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>183</td><td>192</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>192</td><td>200</td><td>Cemented Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>200</td><td>221</td><td>Clay (Sticky Red)</td><td></td><td>X</td></tr> <tr><td>"</td><td>221</td><td>231</td><td>Gravel (Some Clay Streaks)</td><td>X</td><td></td></tr> <tr><td>"</td><td>231</td><td>236</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>236</td><td>241</td><td>Gravel (Bigger, Cleaner)</td><td>X</td><td></td></tr> <tr><td>"</td><td>241</td><td>244</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>244</td><td>250</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>250</td><td>274</td><td>Clay (Some Gravel)</td><td></td><td>X</td></tr> <tr><td>"</td><td>274</td><td>278</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>278</td><td>303</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>303</td><td>307</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>307</td><td>338</td><td>Clay (Some Gravel)</td><td></td><td>X</td></tr> <tr><td>"</td><td>338</td><td>361</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>361</td><td>365</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>365</td><td>374</td><td>Gravel (little sand &amp; Clay)</td><td>X</td><td></td></tr> <tr><td>"</td><td>374</td><td>385</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>385</td><td>399</td><td>Gravel (Cemented)</td><td>X</td><td></td></tr> <tr><td>"</td><td>399</td><td>400</td><td>Clay</td><td></td><td>X</td></tr> </tbody> </table> | Hole Diam.       | Depth                       |              | Material    | Water      |                | From | To | Yes | No | 20" | 0 | 4 | Top Soil |  | X | " | 4 | 24 | Gravel and Clay |  | X | " | 24 | 68 | Red Clay |  | X | " | 68 | 75 | Gravel and Clay |  | X | " | 75 | 84 | Clay |  | X | " | 84 | 88 | Gravel and Clay | X |  | " | 88 | 104 | Gravel and Clay | X |  | " | 104 | 109 | Clay |  | X | " | 109 | 120 | Gravel and Clay | X |  | " | 120 | 174 | Clay Red |  | X | " | 174 | 183 | Cemented Gravel | X |  | " | 183 | 192 | Clay |  | X | " | 192 | 200 | Cemented Gravel | X |  | " | 200 | 221 | Clay (Sticky Red) |  | X | " | 221 | 231 | Gravel (Some Clay Streaks) | X |  | " | 231 | 236 | Clay |  | X | " | 236 | 241 | Gravel (Bigger, Cleaner) | X |  | " | 241 | 244 | Clay |  | X | " | 244 | 250 | Gravel | X |  | " | 250 | 274 | Clay (Some Gravel) |  | X | " | 274 | 278 | Gravel | X |  | " | 278 | 303 | Clay |  | X | " | 303 | 307 | Gravel | X |  | " | 307 | 338 | Clay (Some Gravel) |  | X | " | 338 | 361 | Gravel | X |  | " | 361 | 365 | Clay |  | X | " | 365 | 374 | Gravel (little sand & Clay) | X |  | " | 374 | 385 | Clay |  | X | " | 385 | 399 | Gravel (Cemented) | X |  | " | 399 | 400 | Clay |  | X |
| Hole Diam.   | Depth  |                  | Material                    | Water        |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
|  | From   | To               |                             | Yes          | No          |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| 20"  | 0  | 4                | Top Soil                    |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 4  | 24               | Gravel and Clay             |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 24   | 68               | Red Clay                    |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 68   | 75               | Gravel and Clay             |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 75   | 84               | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 84   | 88               | Gravel and Clay             | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 88   | 104              | Gravel and Clay             | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 104  | 109              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 109  | 120              | Gravel and Clay             | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 120  | 174              | Clay Red                    |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 174  | 183              | Cemented Gravel             | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 183  | 192              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 192  | 200              | Cemented Gravel             | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 200  | 221              | Clay (Sticky Red)           |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 221  | 231              | Gravel (Some Clay Streaks)  | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 231  | 236              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 236  | 241              | Gravel (Bigger, Cleaner)    | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 241  | 244              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 244  | 250              | Gravel                      | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 250  | 274              | Clay (Some Gravel)          |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 274  | 278              | Gravel                      | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 278  | 303              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 303  | 307              | Gravel                      | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 307  | 338              | Clay (Some Gravel)          |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 338  | 361              | Gravel                      | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 361  | 365              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 365  | 374              | Gravel (little sand & Clay) | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 374  | 385              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 385  | 399              | Gravel (Cemented)           | X            |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 399  | 400              | Clay                        |              | X           |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <p><b>4. METHOD DRILLED</b><br/><input type="checkbox"/> Rotary <input type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary<br/><input checked="" type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____</p> <p><b>5. WELL CONSTRUCTION</b><br/>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____<br/>Thickness _____ Diameter _____ From _____ To _____<br/><u>250</u> inches <u>20</u>" inches + <u>1</u> feet <u>401</u> feet<br/>_____ inches _____ inches _____ feet _____ feet<br/>_____ inches _____ inches _____ feet _____ feet<br/>_____ inches _____ inches _____ feet _____ feet</p> <p>Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br/>Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br/>Perforated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br/>How perforated? <input type="checkbox"/> Factory <input checked="" type="checkbox"/> Knife <input type="checkbox"/> Torch<br/>Size of perforation <u>3/8</u> inches by <u>2</u> inches</p> <p>Number _____ From _____ To _____<br/><u>1600</u> perforations <u>84</u> feet <u>400</u> feet<br/>_____ perforations _____ feet _____ feet<br/>_____ perforations _____ feet _____ feet</p> <p>Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br/>Manufacturer's name _____ Model No. _____<br/>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br/>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br/>Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____<br/>Placed from _____ feet to _____ feet<br/>Surface seal depth <u>20</u>" Material used in seal: <input checked="" type="checkbox"/> Cement grout <input type="checkbox"/> Well cuttings<br/><input type="checkbox"/> Pudding clay <input type="checkbox"/> Temp. surface casing<br/>Sealing procedure used: <input checked="" type="checkbox"/> Slurry pit <input type="checkbox"/> Overbore to seal depth<br/>Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent Weld<br/><input type="checkbox"/> Cemented between strata<br/>Describe access port <u>2" pipe</u></p> | <p><b>10.</b> Work started <u>Sept. 18, 1979</u> finished <u>Oct. 31, 1979</u></p>   |                  |                             |              |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <p><b>6. LOCATION OF WELL</b><br/>Sketch map location must agree with written location.</p> <p>Subdivision Name _____<br/>Lot No. _____ Block No. _____<br/>County <u>Teton</u><br/><u>SE</u> 1/4 Sec. <u>1</u>, T. <u>4</u> N. R. <u>44</u> E. N. 1/4</p>   | <p><b>11. DRILLERS CERTIFICATION</b> <u>cb dl</u><br/>I/We certify that all minimum well construction standards were complied with at the time the rig was removed.<br/>Firm Name <u>Paul Vollmer &amp; Son</u> Firm No. <u>67</u><br/>Address <u>Aberdeen, Idaho 83210</u> Date <u>Nov. 2, 1979</u><br/>Signed by (Firm Official) <u>Paul Vollmer Jr</u><br/>" and _____<br/>(Operator) <u>Paul Vollmer Sr</u></p>  |                  |                             |              |             |            |                |      |    |     |    |     |   |   |          |  |   |   |   |    |                 |  |   |   |    |    |          |  |   |   |    |    |                 |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                          |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT



Form 238-7  
6/07

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

COPY

1. WELL TAG NO. D 0075686  
Drilling Permit No. \_\_\_\_\_  
Water right or injection well # \_\_\_\_\_

2. OWNER:  
Name Foster, Kerstyn and Tyler  
Address P.O. Box 604  
City Driggs State ID Zip 83422

3. WELL LOCATION:  
Twp 4 North  or South  Rge. 44 East  or West   
Sec. 12 1/4 NE 1/4 NE 1/4  
Gov't Lot \_\_\_\_\_ County Teton  
Lat. 43 ° 41.480' (Deg. and Decimal minutes)  
Long. 111 ° 12.130' (Deg. and Decimal minutes)  
Address of Well Site 5000 W 2250 S  
City Driggs

4. USE:  
 Domestic  Municipal  Monitor  Irrigation  Thermal  Injection  
 Other \_\_\_\_\_

5. TYPE OF WORK:  
 New well  Replacement well  Modify existing well  
 Abandonment  Other \_\_\_\_\_

6. DRILL METHOD:  
 Air Rotary  Mud Rotary  Cable  Other \_\_\_\_\_

7. SEALING PROCEDURES:

| Seal material | From (ft) | To (ft) | Quantity (lbs or ft <sup>3</sup> ) | Placement method/procedure |
|---------------|-----------|---------|------------------------------------|----------------------------|
| bentonite     | 0'        | 40'     | 1400 lbs                           | temp casing                |

8. CASING/LINER:

| Diameter (nominal) | From (ft) | To (ft) | Gauge/Schedule | Material | Casing                              | Liner                    | Threaded                 | Welded                              |
|--------------------|-----------|---------|----------------|----------|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| 6"                 | +2        | 158'    | .250           | steel    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Was drive shoe used?  Y  N Shoe Depth(s) 158'

9. PERFORATIONS/SCREENS:  
Perforations  Y  N Method \_\_\_\_\_  
Manufactured screen  Y  N Type \_\_\_\_\_  
Method of installation \_\_\_\_\_

| From (ft) | To (ft) | Slot size | Number | Diameter (nominal) | Material | Gauge or Schedule |
|-----------|---------|-----------|--------|--------------------|----------|-------------------|
|           |         |           |        |                    |          |                   |
|           |         |           |        |                    |          |                   |
|           |         |           |        |                    |          |                   |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_  
Packer  Y  N Type \_\_\_\_\_

10. FILTER PACK:

| Filter Material | From (ft) | To (ft) | Quantity (lbs or ft <sup>3</sup> ) | Placement method |
|-----------------|-----------|---------|------------------------------------|------------------|
|                 |           |         |                                    |                  |
|                 |           |         |                                    |                  |
|                 |           |         |                                    |                  |

11. FLOWING ARTESIAN:  
Flowing Artesian?  Y  N Artesian Pressure (PSIG) \_\_\_\_\_  
Describe control device \_\_\_\_\_

12. STATIC WATER LEVEL and WELL TESTS:  
Depth first water encountered (ft) 90' Static water level (ft) 90'  
Water temp. (°F) 58° Bottom hole temp. (°F) 58°  
Describe access point \_\_\_\_\_

Well test:

| Drawdown (feet) | Discharge or Yield (gpm) | Test duration (minutes) | Pump                     | Basin                    | Air                                 | Flowing artesian         |
|-----------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|
| 150'            | 20                       | 45                      | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Water quality test or comments: \_\_\_\_\_

13. LITHOLOGIC LOG and/or repairs or abandonment:

| Bore Dia. (in) | From (ft) | To (ft) | Remarks, lithology or description of repairs or abandonment, water temp. | Water |   |
|----------------|-----------|---------|--|-------|---|
|                |           |         |  | Y     | N |
| 10"            | 0'        | 40'     | clay, gravel, top soil   |       | X |
| 6"             | 40'       | 70'     | clay, gravel   |       | X |
|                | 70'       | 72'     | cemented gravel layer  |       | X |
|                | 72'       | 93'     | clay, gravel   | X     |   |
|                | 93'       | 95'     | cemented gravel layer  | X     |   |
|                | 95'       | 110'    | clay   |       | X |
|                | 110'      | 112'    | cemented gravel layer  | X     |   |
|                | 112'      | 140'    | gravel, clay very low GPM  | X     |   |
|                | 140'      | 150'    | clay   |       | X |
|                | 150'      | 165'    | clay, gravel   | X     |   |

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Department of Water Resources  
Eastern Region

Completed Depth (Measurable): 158'  
Date Started: Feb 13, 2019 Date Completed: Feb 15, 2019

14. DRILLER'S CERTIFICATION:  
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Denning Well Drilling Co. No. 518  
\*Principal Driller [Signature] Date Feb 15, 2019  
\*Driller [Signature] Date Feb 15, 2019  
\*Operator II \_\_\_\_\_ Date \_\_\_\_\_  
Operator I [Signature] Date Feb 15, 2019  
\*Signature of Principal Driller and rig operator are required.



Clearwater Geosciences, LLP
Ground Water Development and Exploration

REPORT OF WELL DRILLER
State of Idaho

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State law requires that this report shall be filed with the State Registration Engineer within 30 days after completion or abandonment of the well.

WELL OWNER: JAY DELL BUXTON
Name
Address DRIGGS, IDAHO

Size of drilled hole: 16" Total
depth of well: 296 Standing water
level below ground: 110 Temp.
Fahr. 56 Test delivery: 1200 gpm
or cfs Pump? [X] Bail [ ]

Owner's Permit No. G33334
NATURE OF WORK (check): Replacement well [ ]
New well [X] Deepened [ ] Abandoned [ ]

Water is to be used for: irrigation

METHOD OF CONSTRUCTION: Rotary [ ] Cable [X]
Dug [ ] Other [ ]

CASING SCHEDULE: Threaded [ ] Welded [X]
16" Diam. from 0 ft. to 254 ft.
"Diam. from ft. to ft.
"Diam. from ft. to ft.
"Diam. from ft. to ft.
Thickness of casing: .250 Material:
Steel [X] concrete [ ] wood [ ] other [ ]

Length of time of test: Hrs. Min.
Drawdown: 185 ft. Artesian pressure: ft.
above land surface Give flow cfs
or gpm. Shutoff pressure:
Controlled by: Valve [ ] Cap [ ] Plug [ ]
No control [ ] Does well leak around casing?
Yes [ ] No [X]

PERFORATED? Yes [X] No [ ] Type of
perforator used:

Size of perforations: 1/2" by 3"
100 perforations from 124 ft. to 250 ft.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

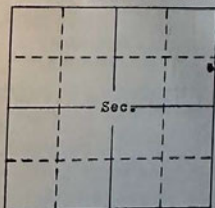
WAS SCREEN INSTALLED? Yes [ ] No [X]
Manufacturer's name:
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

CONSTRUCTION: Well gravel packed? Yes [ ]
No. [X] size of gravel Gravel
placed from ft. to ft. Surface seal
provided? Yes [ ] No [ ] To what depth?
ft. Material used in seal:

Did any strata contain unusable water? Yes [ ]
No. [X] Type of water:
Depth of strata 110 ft. Method of sealing
strata off:

Surface casing used? Yes [X] No. [ ]
Cemented in place? Yes [ ] No [X]

Locate well in section



LOCATION OF WELL: County TETON
S. N. E. 1/4 Sec. 12 T. 4 N. 1/2 R. 44 E. 1/4

Table with columns: DEPTH (FEET), MATERIAL, WATER (YES OR NO). Rows include: 0-2 Top soil, 2-11 brown sandy clay, 11-34 clay and gravel, 34-42 brown clay, 42-49 cobble rocks, 49-54 clay and gravel, 54-62 cobble rocks, 62-124 clay and gravel (water), 124-127 pea gravel and sand, 127-153 brown clay and gravel, 153-174 gravel conglomerate, 174-182 clay and gravel, 182-185 gravel conglomerate, 185-197 clay and gravel, 197-202 brown clay, 202-214 gravel conglomerate, 214-220 cobbles, 220-224 gravel conglomerate, 224-252 brown clay and gravel, 252-263 gravel conglomerate, clay, 263-283 brown sticky clay, 283-288 clay and gravel, 288-291 sticky clay, 291-296 clay and gravel.

CO 613

Work started: FEB 21, 1968
Work finished: April 8, 1968
Well Driller's Statement: This well was
drilled under my supervision and this report
is true to the best of my knowledge.
Name: G.L. HOPKINS
Address: THORNTON, IDAHO
Signed by: [Signature]
License No. 32 Date: April 17, 1968

4469

USGS

Use other side for additional remarks



Manufactured by Alexander Clark Business Forms - Boise, Idaho - (208) 322-0511

IDAHO DEPARTMENT OF WATER RESOURCES  
WELL DRILLER'S REPORT

Office Use Only  
Inspected by \_\_\_\_\_  
Twp \_\_\_\_\_ Rge \_\_\_\_\_ Sec \_\_\_\_\_  
1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4 \_\_\_\_\_  
Lat: \_\_\_\_\_ Long: \_\_\_\_\_

WELL TAG NO. D0065558  
DRILLING PERMIT NO. \_\_\_\_\_  
Other IDWR No. \_\_\_\_\_

2. OWNER:  
Name San Ram Research  
Address 3270 E 17th St # 229  
City Armorel State Id. Zip 83401

3. LOCATION OF WELL by legal description:  
Sketch map location must agree with written location.

|   |  |   |  |   |  |
|---|--|---|--|---|--|
| N |  | Twp. <u>4</u>                           |  | North <input checked="" type="checkbox"/> or South <input type="checkbox"/> |  |
| E |  | Rge. <u>44</u>                          |  | East <input type="checkbox"/> or West <input type="checkbox"/>              |  |
| S |  | Sec. <u>12</u>                          |  | 1/4 <u>NE</u> 1/4 <u>SE</u> 1/4   |  |
| W |  | Gov't Lot _____                         |  | County <u>Teton</u>   |  |
| X |  | Lat: _____                              |  | Long: _____   |  |
| S |  | Address of Well Site <u>So. Boks Rd</u> |  | City _____  |  |

(Give at least name of road - Distance to Road or Landmark)

4. USE:  
 Domestic  Municipal  Monitor  Irrigation  
 Thermal  Injection  Other \_\_\_\_\_

5. TYPE OF WORK check all that apply (Replacement etc.)  
 New Well  Modify  Abandonment  Other \_\_\_\_\_

6. DRILL METHOD  
 Air Rotary  Cable  Mud Rotary  Other \_\_\_\_\_

7. SEALING PROCEDURES

| Material         | From     | To         | AMOUNT<br>Sacks or Pounds | METHOD           |
|------------------|----------|------------|---------------------------|------------------|
| <u>Bentonite</u> | <u>0</u> | <u>40'</u> | <u>26 Sacks</u>           | <u>over Pipe</u> |

Was drive shoe used?  Y  N Shoe Depth(s) \_\_\_\_\_  
Was drive shoe seal tested?  Y  N How? \_\_\_\_\_

8. CASING/LINER:

| Diameter  | From        | To          | Gauge       | Material     | Casing                              | Liner                               | Welded                   | Threaded                 |
|-----------|-------------|-------------|-------------|--------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| <u>6"</u> | <u>12'</u>  | <u>193'</u> | <u>250"</u> | <u>Steel</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| <u>5"</u> | <u>185'</u> | <u>245'</u> | <u>24"</u>  | <u>Steel</u> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Length of Headpipe \_\_\_\_\_ Length of Tailpipe \_\_\_\_\_

9. PERFORATIONS/SCREENS  
Method  Torch   
Screens \_\_\_\_\_ Screen Type \_\_\_\_\_

| From        | To          | Slot Size          | Number          | Diameter  | Material | Casing                   | Liner                    |
|-------------|-------------|--------------------|-----------------|-----------|----------|--------------------------|--------------------------|
| <u>196'</u> | <u>244'</u> | <u>1/4" x 1/8"</u> | <u>3 per ft</u> | <u>2"</u> |          | <input type="checkbox"/> | <input type="checkbox"/> |

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:  
88' ft. below ground Artesian pressure \_\_\_\_\_ lb.  
Depth flow encountered \_\_\_\_\_ ft. Describe access port or control devices: \_\_\_\_\_

11. WELL TESTS:

| Yield gal/min | Drawdown | Pumping Level | Time |
|---------------|----------|---------------|------|
|               |          |               |      |

Water Temp. \_\_\_\_\_ Bottom hole temp. \_\_\_\_\_  
Water Quality test or comments: \_\_\_\_\_

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

| Bore Dia   | From        | To          | Remarks: Lithology, Water Quality & Temperature | Y | N                                   |
|------------|-------------|-------------|---|---|-------------------------------------|
| <u>10"</u> | <u>0</u>    | <u>18'</u>  | <u>Clay</u>                                     |   | <input checked="" type="checkbox"/> |
| <u>6"</u>  | <u>18'</u>  | <u>40'</u>  | <u>Clay Gravel</u>                              |   | <input checked="" type="checkbox"/> |
| <u>6"</u>  | <u>40'</u>  | <u>55'</u>  | <u>Clay Gravel</u>                              |   | <input checked="" type="checkbox"/> |
| <u>6"</u>  | <u>55'</u>  | <u>90'</u>  | <u>Clay Sand</u>                                |   | <input checked="" type="checkbox"/> |
| <u>6"</u>  | <u>90'</u>  | <u>120'</u> | <u>Clay Gravel</u>                              |   | <input checked="" type="checkbox"/> |
| <u>6"</u>  | <u>120'</u> | <u>190'</u> | <u>Clay Sand</u>                                |   | <input checked="" type="checkbox"/> |
| <u>6"</u>  | <u>190'</u> | <u>235'</u> | <u>Clay Sand Gravel</u>                         |   | <input checked="" type="checkbox"/> |
| <u>6"</u>  | <u>235'</u> | <u>260'</u> | <u>Clay Gravel</u>                              |   | <input checked="" type="checkbox"/> |

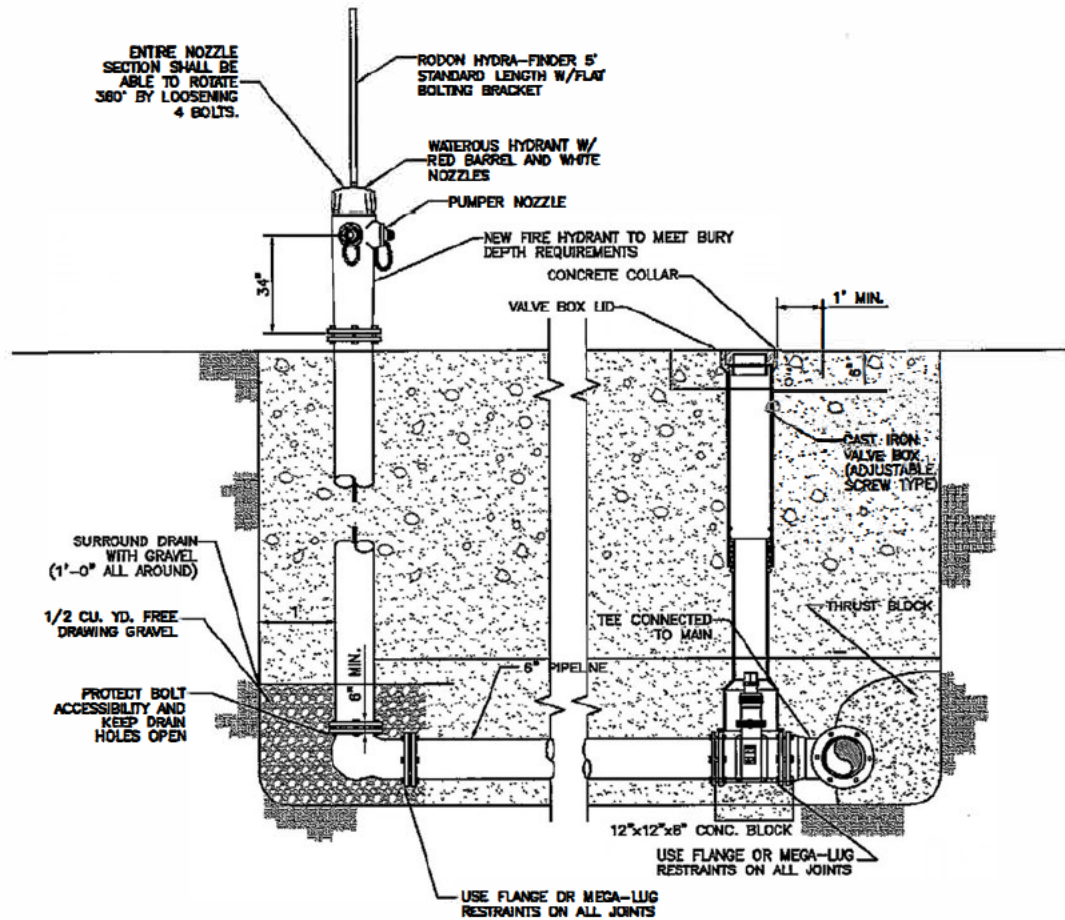
RECEIVED  
APR 15 2015  
Department of Water Resources  
Eastern Region

Completed Depth 260' (Measurable)  
Date: Started 8-20-14 Completed 8-28-14

13. DRILLER'S CERTIFICATION  
We certify that all minimum well construction standards were complied with at the time the rig was removed.  
Company Name Denning Drilling Inc Firm No. 518  
Firm Official David Denning Date 8-28-14  
and Driller or Operator \_\_\_\_\_ Date \_\_\_\_\_  
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES





**CONSTRUCTION NOTES:**

1. ALL PIPELINES SHALL BE INSTALLED AT THE LOCATIONS AND DEPTHS INDICATED ON THE PLANS OR AS OTHERWISE DIRECTED BY THE ENGINEER.
2. ALL PIPELINE MATERIALS SHALL CONFORM TO ASTM D3034-80, SCHEDULE 40, ASTM F578-81, OR ASTM F704-83.
3. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH DARGO DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ), WATER QUALITY RULES AND REGULATIONS.
4. ALL DISTRIBUTION PIPE SHALL BE APPROVED BY THE CITY OF DRIGGS PUBLIC WORKS.
5. ALL DISTRIBUTION FITTINGS SHALL BE CAST IRON OR DUCTILE IRON, ANNA C-110 CLASS 250.
6. PIPE SHALL BE PLACED WITHIN THE RIGHT-OF-WAY DESIGNATED, AND IN NO CASE SHALL THE PIPELINE BE CLOSER THAN 3 FEET FROM THE PROPERTY LINE.
7. MINIMUM HORIZONTAL SEPARATION FROM SEWER SHALL BE 10' MEASURED OUTSIDE WALL TO OUTSIDE WALL OF PIPES.
8. IF HORIZONTAL SEPARATION CANNOT BE MAINTAINED THEN WATER LINE SHALL BE 1'-0" VERTICALLY ABOVE SEWER OR SEWER SHALL BE CASED UNTIL SEPARATION CAN BE MET.
9. ALL AFFIXEMENTS TO BE WRAPPED WITH 8 MIL PLASTIC TO PREVENT CONCRETE FROM ADHERING TO ANY PART OF FITTING.
10. JOINT RESTRAINTS SHALL BE USED FOR THRUST SUPPORT.
11. WATER VALVE LOCATIONS SHALL BE 5' FROM THE C.L. OF THE MAIN LINE TO THE C.L. OF A MAIN LINE VALVE AND A MAX. OF 3' FROM THE C.L. OF MAIN LINE TO THE C.L. OF THE FIRE HYDRANT OR PRIVATE SERVICE VALVE, OR AS DIRECTED BY THE ENGINEER.
12. FIRE HYDRANTS AND CURB STOPS SHALL BE LOCATED OUT OF SIDEWALK AREA WHERE POSSIBLE. LOCATE 1' BEHIND WALK IN UTILITY EASEMENT AS SHOWN OR 1' IN FRONT OF WALK IF NO EASEMENT IS AVAILABLE BEHIND WALK.
13. CONTRACTOR SHALL PAINT CURB 10 FEET ON EACH SIDE OF HYDRANT.
14. CONTRACTOR SHALL PROVIDE A HYDRANT WRENCH FOR EACH PHASE OF THE PROJECT.
15. IF DEPTH IS GREATER THAN 6' EXTENSION(S) TO OPERATING NUT IS(ARE) REQUIRED.

**STANDARD DRAWINGS & SPECIFICATIONS  
FIRE HYDRANT**

**CITY OF DRIGGS - STANDARD DETAILS**

|            |          |
|------------|----------|
| SCALE      | NONE     |
| DATE:      | 5-3-2016 |
| DRAWING #: | COD-W-06 |



## Water Right Report : 22-14141( Decreed/Active)

## Water Right Owners

| Owner Type     | Name                       | Address    | City       | State      | Postal Code |
|----------------|----------------------------|------------|------------|------------|-------------|
| Current Owner  | SKYLINE HOLDINGS GROUP LLC | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED]  |
| Original Owner | BUXTON, JAY DELL           | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED]  |
| Previous Owner | SUNRAIN VARIETIES LLC      | [REDACTED] | [REDACTED] | [REDACTED] | [REDACTED]  |

## Water Right Status

Priority Date : 10/10/1979  
 Basis : Decreed  
 Status : Active

## Water Source

| Source       | Source Qualifier | Tributary | Tributary Qualifier |
|--------------|------------------|-----------|---------------------|
| GROUND WATER |                  |           |                     |

## Points Of Diversion (Location)

| Source       | Township | Range | Section | Govt. Lot | QQQ | QQ | Q  | County | Diversion Type |
|--------------|----------|-------|---------|-----------|-----|----|----|--------|----------------|
| GROUND WATER | 04N      | 44E   | 1       | 0         | NE  | SW | SE | TETON  |                |

## Water Uses

| Beneficial Use | From  | To    | Diversion Rate | Volume     |
|----------------|-------|-------|----------------|------------|
| IRRIGATION     | 04/15 | 10/15 | 1.73 CFS       | 347.10 AFA |
| <b>TOTAL</b>   |       |       | 1.73 CFS       | 347.10 CFS |

## Places of Use

Printable View

Paged View

## Place of Use Legal Description : IRRIGATION (TETON county)

| Township | Range | Section | Lot | QQQ | QQ | Q  | Acres |
|----------|-------|---------|-----|-----|----|----|-------|
| 04N      | 44E   | 1       |     | SW  | SE | 23 |       |
| 04N      | 44E   | 1       |     | SE  | SE | 31 |       |
| 04N      | 44E   | 12      |     | NE  | NE | 29 |       |
| 04N      | 44E   | 12      |     | NW  | NE | 33 |       |

## Irrigation Totals

Total Acres    Acre Limit  
 115.70

## Conditions

## Code Conditions

C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.

## Dates


Licensed Date :  
 Decreed Date : 11/24/2008  
 Permit Proof Due Date :  
 Permit Proof Made Date :  
 Permit Approved Date :  
 Permit Moratorium Expiration Date :  
 Enlargement Use Priority Date :

## Other Information

State or Federal : S  
 Water District Number : TBD  
 Generic Max Rate Per Acre : 0.02  
 Generic Max Volume Per Acre : 3.5  
 Civil Case Number :  
 Decree Plaintiff :  
 Decree Defendant :

# WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

| <p><b>1. WELL OWNER</b></p> <p>Name <u>J.D. Buxton</u><br/>Address <u>Driggs, Idaho 83422</u><br/>Owner's Permit No. <u>22-7309</u></p>  | <p><b>7. WATER LEVEL</b></p> <p>Static water level <u>60</u> feet below land surface.<br/>Flowing? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No G.P.M. flow _____<br/>Artesian closed-in pressure _____ p.s.i.<br/>Controlled by: <input type="checkbox"/> Valve <input type="checkbox"/> Cap <input type="checkbox"/> Plug<br/>Temperature _____ OF. Quality _____</p>  |                  |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
|--|---|------------------|-----------------------------|--------------|--------------------|-------------------|---------------|-----------------|--------------|--------------|------------|------------|--------------|--------------|------------|------------|--------------|--------------|------------|------------|-----------------|------|----|--------------------------|----------------|-----------------|--------------------|------------|------------|--------------------|------------|------------|---|--|---|---|----|----|------|--|---|---|----|----|-----------------|---|--|---|----|-----|-----------------|---|--|---|-----|-----|------|--|---|---|-----|-----|-----------------|---|--|---|-----|-----|----------|--|---|---|-----|-----|-----------------|---|--|---|-----|-----|------|--|---|---|-----|-----|-----------------|---|--|---|-----|-----|-------------------|--|---|---|-----|-----|----------------------------|---|--|---|-----|-----|------|--|---|---|-----|-----|------------------------|---|--|---|-----|-----|------|--|---|---|-----|-----|--------|---|--|---|-----|-----|--------------------|--|---|---|-----|-----|--------|---|--|---|-----|-----|------|--|---|---|-----|-----|--------|---|--|---|-----|-----|--------------------|--|---|---|-----|-----|--------|---|--|---|-----|-----|------|--|---|---|-----|-----|-----------------------------|---|--|---|-----|-----|------|--|---|---|-----|-----|-------------------|---|--|---|-----|-----|------|--|---|
| <p><b>2. NATURE OF WORK</b></p> <p><input checked="" type="checkbox"/> New well <input type="checkbox"/> Deepened <input type="checkbox"/> Replacement<br/><input type="checkbox"/> Abandoned (describe method of abandoning) _____</p>  | <p><b>8. WELL TEST DATA</b></p> <p><input type="checkbox"/> Pump <input type="checkbox"/> Bailor <input type="checkbox"/> Air <input type="checkbox"/> Other _____</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Discharge G.P.M.</th> <th>Pumping Level</th> <th>Hours Pumped</th> </tr> <tr> <td style="text-align: center;">2000</td> <td style="text-align: center;">160</td> <td style="text-align: center;">10 hr.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>   | Discharge G.P.M. | Pumping Level               | Hours Pumped | 2000               | 160               | 10 hr.        |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| Discharge G.P.M.   | Pumping Level   | Hours Pumped     |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| 2000   | 160   | 10 hr.           |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
|  |   |                  |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <p><b>3. PROPOSED USE</b></p> <p><input type="checkbox"/> Domestic <input checked="" type="checkbox"/> Irrigation <input type="checkbox"/> Test <input type="checkbox"/> Municipal<br/><input type="checkbox"/> Industrial <input type="checkbox"/> Stock <input type="checkbox"/> Waste Disposal or Injection<br/><input type="checkbox"/> Other _____ (specify type)</p>   | <p><b>9. LITHOLOGIC LOG</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Hole<br/>Diam.</th> <th colspan="2">Depth</th> <th rowspan="2">Material</th> <th colspan="2">Water</th> </tr> <tr> <th>From</th> <th>To</th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr><td>"</td><td>0</td><td>4</td><td>Top Soil</td><td></td><td>X</td></tr> <tr><td>"</td><td>4</td><td>24</td><td>Gravel and Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>24</td><td>68</td><td>Red Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>68</td><td>75</td><td>Gravel and Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>75</td><td>84</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>84</td><td>88</td><td>Gravel and Clay</td><td>X</td><td></td></tr> <tr><td>"</td><td>88</td><td>104</td><td>Gravel and Clay</td><td>X</td><td></td></tr> <tr><td>"</td><td>104</td><td>109</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>109</td><td>120</td><td>Gravel and Clay</td><td>X</td><td></td></tr> <tr><td>"</td><td>120</td><td>174</td><td>Clay Red</td><td></td><td>X</td></tr> <tr><td>"</td><td>174</td><td>183</td><td>Cemented Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>183</td><td>192</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>192</td><td>200</td><td>Cemented Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>200</td><td>221</td><td>Clay (Sticky Red)</td><td></td><td>X</td></tr> <tr><td>"</td><td>221</td><td>231</td><td>Gravel (Some Clay Streaks)</td><td>X</td><td></td></tr> <tr><td>"</td><td>231</td><td>236</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>236</td><td>241</td><td>Gravel (Blacker Clean)</td><td>X</td><td></td></tr> <tr><td>"</td><td>241</td><td>244</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>244</td><td>250</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>250</td><td>274</td><td>Clay (Some Gravel)</td><td></td><td>X</td></tr> <tr><td>"</td><td>274</td><td>278</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>278</td><td>303</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>303</td><td>307</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>307</td><td>338</td><td>Clay (Some Gravel)</td><td></td><td>X</td></tr> <tr><td>"</td><td>338</td><td>361</td><td>Gravel</td><td>X</td><td></td></tr> <tr><td>"</td><td>361</td><td>385</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>374</td><td>374</td><td>Gravel (little sand &amp; Clay)</td><td>X</td><td></td></tr> <tr><td>"</td><td>374</td><td>385</td><td>Clay</td><td></td><td>X</td></tr> <tr><td>"</td><td>385</td><td>399</td><td>Gravel (Cemented)</td><td>X</td><td></td></tr> <tr><td>"</td><td>399</td><td>400</td><td>Clay</td><td></td><td>X</td></tr> </tbody> </table> | Hole<br>Diam.    | Depth                       |              | Material           | Water             |               | From            | To           | Yes          | No         | "          | 0            | 4            | Top Soil   |            | X            | "            | 4          | 24         | Gravel and Clay |      | X  | "                        | 24             | 68              | Red Clay           |            | X          | "                  | 68         | 75         | Gravel and Clay   |  | X | " | 75 | 84 | Clay |  | X | " | 84 | 88 | Gravel and Clay | X |  | " | 88 | 104 | Gravel and Clay | X |  | " | 104 | 109 | Clay |  | X | " | 109 | 120 | Gravel and Clay | X |  | " | 120 | 174 | Clay Red |  | X | " | 174 | 183 | Cemented Gravel | X |  | " | 183 | 192 | Clay |  | X | " | 192 | 200 | Cemented Gravel | X |  | " | 200 | 221 | Clay (Sticky Red) |  | X | " | 221 | 231 | Gravel (Some Clay Streaks) | X |  | " | 231 | 236 | Clay |  | X | " | 236 | 241 | Gravel (Blacker Clean) | X |  | " | 241 | 244 | Clay |  | X | " | 244 | 250 | Gravel | X |  | " | 250 | 274 | Clay (Some Gravel) |  | X | " | 274 | 278 | Gravel | X |  | " | 278 | 303 | Clay |  | X | " | 303 | 307 | Gravel | X |  | " | 307 | 338 | Clay (Some Gravel) |  | X | " | 338 | 361 | Gravel | X |  | " | 361 | 385 | Clay |  | X | " | 374 | 374 | Gravel (little sand & Clay) | X |  | " | 374 | 385 | Clay |  | X | " | 385 | 399 | Gravel (Cemented) | X |  | " | 399 | 400 | Clay |  | X |
| Hole<br>Diam.  | Depth   |                  | Material                    | Water        |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
|  | From  | To               |                             | Yes          | No                 |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 0   | 4                | Top Soil                    |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 4   | 24               | Gravel and Clay             |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 24  | 68               | Red Clay                    |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 68  | 75               | Gravel and Clay             |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 75  | 84               | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 84  | 88               | Gravel and Clay             | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 88  | 104              | Gravel and Clay             | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 104   | 109              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 109   | 120              | Gravel and Clay             | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 120   | 174              | Clay Red                    |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 174   | 183              | Cemented Gravel             | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 183   | 192              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 192   | 200              | Cemented Gravel             | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 200   | 221              | Clay (Sticky Red)           |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 221   | 231              | Gravel (Some Clay Streaks)  | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 231   | 236              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 236   | 241              | Gravel (Blacker Clean)      | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 241   | 244              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 244   | 250              | Gravel                      | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 250   | 274              | Clay (Some Gravel)          |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 274   | 278              | Gravel                      | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 278   | 303              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 303   | 307              | Gravel                      | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 307   | 338              | Clay (Some Gravel)          |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 338   | 361              | Gravel                      | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 361   | 385              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 374   | 374              | Gravel (little sand & Clay) | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 374   | 385              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 385   | 399              | Gravel (Cemented)           | X            |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| "  | 399   | 400              | Clay                        |              | X                  |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <p><b>4. METHOD DRILLED</b></p> <p><input type="checkbox"/> Rotary <input type="checkbox"/> Air <input type="checkbox"/> Hydraulic <input type="checkbox"/> Reverse rotary<br/><input checked="" type="checkbox"/> Cable <input type="checkbox"/> Dug <input type="checkbox"/> Other _____</p>   | <p><b>10.</b></p> <p>Work started <u>Sept. 18, 1979</u> finished <u>Oct. 31, 1979</u></p>   |                  |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <p><b>5. WELL CONSTRUCTION</b></p> <p>Casing schedule: <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Concrete <input type="checkbox"/> Other _____</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Thickness</th> <th>Diameter</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>.250</u> inches</td> <td><u>20"</u> inches</td> <td><u>1</u> feet</td> <td><u>401</u> feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ inches</td> <td>_____ inches</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> <p>Was casing drive shoe used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br/>Was a packer or seal used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br/>Perforated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br/>How perforated? <input type="checkbox"/> Factory <input checked="" type="checkbox"/> Knife <input type="checkbox"/> Torch<br/>Size of perforation <u>3/8</u> inches by <u>2</u> inches</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Number</th> <th>From</th> <th>To</th> </tr> </thead> <tbody> <tr> <td><u>1600</u> perforations</td> <td><u>84</u> feet</td> <td><u>400</u> feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> <tr> <td>_____ perforations</td> <td>_____ feet</td> <td>_____ feet</td> </tr> </tbody> </table> <p>Well screen installed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br/>Manufacturer's name _____<br/>Type _____ Model No. _____<br/>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br/>Diameter _____ Slot size _____ Set from _____ feet to _____ feet<br/>Gravel packed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Size of gravel _____<br/>Placed from _____ feet to _____ feet<br/>Surface seal depth <u>20"</u> Material used in seal: <input checked="" type="checkbox"/> Cement grout<br/><input type="checkbox"/> Pudding clay <input checked="" type="checkbox"/> Well cuttings<br/>Sealing procedure used: <input checked="" type="checkbox"/> Slurry pit <input type="checkbox"/> Temp. surface casing<br/><input type="checkbox"/> Overbore to seal depth<br/>Method of joining casing: <input type="checkbox"/> Threaded <input checked="" type="checkbox"/> Welded <input type="checkbox"/> Solvent Weld<br/><input type="checkbox"/> Cemented between strata<br/>Describe access port <u>2" pipe</u></p> | Thickness   | Diameter         | From                        | To           | <u>.250</u> inches | <u>20"</u> inches | <u>1</u> feet | <u>401</u> feet | _____ inches | _____ inches | _____ feet | _____ feet | _____ inches | _____ inches | _____ feet | _____ feet | _____ inches | _____ inches | _____ feet | _____ feet | Number          | From | To | <u>1600</u> perforations | <u>84</u> feet | <u>400</u> feet | _____ perforations | _____ feet | _____ feet | _____ perforations | _____ feet | _____ feet | <p><b>11. DRILLERS CERTIFICATION</b> <u>cb dl</u></p> <p>I/We certify that all minimum well construction standards were complied with at the time the rig was removed.</p> <p>Firm Name <u>Paul Vollmer &amp; Son</u> Firm No. <u>67</u><br/>Address <u>Aberdeen, Idaho 83210</u> Date <u>Nov. 2, 1979</u><br/>Signed by (Firm Official) <u>Paul Vollmer</u><br/>and<br/>(Operator) <u>Paul Vollmer</u></p> |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| Thickness  | Diameter  | From             | To                          |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <u>.250</u> inches   | <u>20"</u> inches   | <u>1</u> feet    | <u>401</u> feet             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| _____ inches   | _____ inches  | _____ feet       | _____ feet                  |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| _____ inches   | _____ inches  | _____ feet       | _____ feet                  |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| _____ inches   | _____ inches  | _____ feet       | _____ feet                  |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| Number   | From  | To               |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <u>1600</u> perforations   | <u>84</u> feet  | <u>400</u> feet  |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| _____ perforations   | _____ feet  | _____ feet       |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| _____ perforations   | _____ feet  | _____ feet       |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |
| <p><b>6. LOCATION OF WELL</b></p> <p>Sketch map location must agree with written location.</p>  <p>Subdivision Name _____<br/>Lot No. _____ Block No. _____<br/>County <u>Teton</u><br/><u>SE 1/4</u> Sec. <u>1</u>, T. <u>4</u> N. R. <u>44</u> E. W.</p>  | <p>Department of Water Resources<br/>Factors District Office</p>  |                  |                             |              |                    |                   |               |                 |              |              |            |            |              |              |            |            |              |              |            |            |                 |      |    |                          |                |                 |                    |            |            |                    |            |            |   |  |   |   |    |    |      |  |   |   |    |    |                 |   |  |   |    |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |          |  |   |   |     |     |                 |   |  |   |     |     |      |  |   |   |     |     |                 |   |  |   |     |     |                   |  |   |   |     |     |                            |   |  |   |     |     |      |  |   |   |     |     |                        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |        |   |  |   |     |     |                    |  |   |   |     |     |        |   |  |   |     |     |      |  |   |   |     |     |                             |   |  |   |     |     |      |  |   |   |     |     |                   |   |  |   |     |     |      |  |   |