

| <div><div>Your Company</div><div>Your Company Information Here</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | <div>LOG OF BORING No. SCDOT-B-01</div> <div>Station: 425+75<br/>Offset: 22 ft RT</div>                                        |             |                                                                                   |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  | 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-------|---|----------------|--|---|--|--|--|--|--|--|--|---|---------------------------------------------|--|---|--|--|--|--|--|--|-------|---|----------------------------------------------------|--|---|--|--|--|--|--|--|-------|---|----------------------------------------------------------------|--|---|-------|---|---|---|---|---|-------|---|--|--|---|--|--|--|--|--|--|-------|---|----------------------------------------------------------------------------------------------|--|---|--|--|--|--|--|--|-------|---|--|--|---|-------|---|---|---|---|---|-------|---|--|--|---|--|--|--|--|--|--|-------|---|--|--|---|-------|---|---|---|----|--|-------|---|--|--|---|--|--|--|--|--|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|-------|---|---|---|----|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|-----------------------------------------------------------------------------------------------|--|----|-------|---|---|---|----|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|-------|---|---|---|----|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|-------|---|---|----|----|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|-------|---|----|----|----|--|-------|----|--------------------------------------------------------------------------------------------------------------------------------|--|----|--|--|--|--|--|--|-------|----|--|--|----|-------|---|----|----|----|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|-------|---|----|----|----|--|-------|----|--|--|----|--|--|--|--|--|--|-------|----|--|--|----|-------|----|----|----|----|--|-------|----|--|--|----|-------|----|----|----|----|--|-------|----|--|--|----|--|--|--|--|--|--|
| Date Drilled: 2026-08-25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | Supervisor: J. Williams                                                                                                        |             |                                                                                   | Notes: I-26 bridge replacement investigation |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| Casing Length: 10 ft                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | Ground Elevation: 214.8                                                                                                        |             |                                                                                   |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  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| Hammer Type: Gravity <input type="checkbox"/> Automatic <input checked="" type="checkbox"/> Other <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Water Level: 11.5 ft during drilling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | Drilling Method: Hollow Stem Auger                                                                                             |             |                                                                                   |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  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| <table><thead><tr><th></th><th>Depth (ft)</th><th>MATERIAL DESCRIPTION</th><th>Graphic Log</th><th>Depth (ft)</th><th>Sample No. /Type</th><th>1st 6"</th><th>2nd 6"</th><th>3rd 6"</th><th>N Value</th><th>STD. PENETRATION TEST DATA (blows/12")</th></tr></thead><tbody><tr><td>214.8</td><td>0</td><td>Ground Surface</td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>1</td><td>ASPHALT CONCRETE; dense, intact, dark grey.</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>213.0</td><td>2</td><td>AGGREGATE BASE; crushed stone, dense, grey, moist.</td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>212.0</td><td>3</td><td>SILTY SAND FILL; loose to compact, brown, moist, trace gravel.</td><td></td><td>3</td><td>SS-01</td><td>3</td><td>4</td><td>5</td><td>9</td><td>&lt;</td></tr><tr><td>211.0</td><td>4</td><td></td><td></td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>210.0</td><td>5</td><td>FINE SAND; loose to medium dense, tan to grey, moist becoming wet below 11.5 ft, trace silt.</td><td></td><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>209.0</td><td>6</td><td></td><td></td><td>6</td><td>SS-02</td><td>3</td><td>4</td><td>2</td><td>7</td><td>&lt;</td></tr><tr><td>208.0</td><td>7</td><td></td><td></td><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>207.0</td><td>8</td><td></td><td></td><td>8</td><td>SS-03</td><td>3</td><td>4</td><td>6</td><td>10</td><td></td></tr><tr><td>206.0</td><td>9</td><td></td><td></td><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>205.0</td><td>10</td><td></td><td></td><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>204.0</td><td>11</td><td></td><td></td><td>11</td><td>SS-04</td><td>3</td><td>5</td><td>7</td><td>12</td><td></td></tr><tr><td>203.0</td><td>12</td><td></td><td></td><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>202.0</td><td>13</td><td>SANDY CLAY; stiff to very stiff, mottled red-brown and grey, moist, low to medium plasticity.</td><td></td><td>13</td><td>SS-05</td><td>4</td><td>6</td><td>8</td><td>14</td><td></td></tr><tr><td>201.0</td><td>14</td><td></td><td></td><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>200.0</td><td>15</td><td></td><td></td><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>199.0</td><td>16</td><td></td><td></td><td>16</td><td>SS-06</td><td>4</td><td>7</td><td>9</td><td>16</td><td></td></tr><tr><td>198.0</td><td>17</td><td></td><td></td><td>17</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>197.0</td><td>18</td><td></td><td></td><td>18</td><td>SS-07</td><td>5</td><td>9</td><td>12</td><td>21</td><td></td></tr><tr><td>196.0</td><td>19</td><td></td><td></td><td>19</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>195.0</td><td>20</td><td></td><td></td><td>20</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>194.0</td><td>21</td><td></td><td></td><td>21</td><td>SS-08</td><td>6</td><td>11</td><td>14</td><td>25</td><td></td></tr><tr><td>193.0</td><td>22</td><td>RESIDUAL SILTY SAND; medium dense to very dense, orange-brown, moist, with weathered rock fragments; auger refusal at 30.0 ft.</td><td></td><td>22</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>192.0</td><td>23</td><td></td><td></td><td>23</td><td>SS-09</td><td>7</td><td>13</td><td>17</td><td>30</td><td></td></tr><tr><td>191.0</td><td>24</td><td></td><td></td><td>24</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>190.0</td><td>25</td><td></td><td></td><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>189.0</td><td>26</td><td></td><td></td><td>26</td><td>SS-10</td><td>8</td><td>17</td><td>22</td><td>39</td><td></td></tr><tr><td>188.0</td><td>27</td><td></td><td></td><td>27</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>187.0</td><td>28</td><td></td><td></td><td>28</td><td>SS-11</td><td>10</td><td>22</td><td>28</td><td>50</td><td></td></tr><tr><td>186.0</td><td>29</td><td></td><td></td><td>29</td><td>SS-12</td><td>15</td><td>25</td><td>35</td><td>60</td><td></td></tr><tr><td>185.0</td><td>30</td><td></td><td></td><td>30</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> |            |                                                                                                                                |             |                                                                                   |                                              |        |        |        | Depth (ft) | MATERIAL DESCRIPTION                   | Graphic Log | Depth (ft) | Sample No. /Type | 1st 6" | 2nd 6" | 3rd 6" | N Value | STD. PENETRATION TEST DATA (blows/12") | 214.8 | 0 | Ground Surface |  | 0 |  |  |  |  |  |  |  | 1 | ASPHALT CONCRETE; dense, intact, dark grey. |  | 1 |  |  |  |  |  |  | 213.0 | 2 | AGGREGATE BASE; crushed stone, dense, grey, moist. |  | 2 |  |  |  |  |  |  | 212.0 | 3 | SILTY SAND FILL; loose to compact, brown, moist, trace gravel. |  | 3 | SS-01 | 3 | 4 | 5 | 9 | < | 211.0 | 4 |  |  | 4 |  |  |  |  |  |  | 210.0 | 5 | FINE SAND; loose to medium dense, tan to grey, moist becoming wet below 11.5 ft, trace silt. |  | 5 |  |  |  |  |  |  | 209.0 | 6 |  |  | 6 | SS-02 | 3 | 4 | 2 | 7 | < | 208.0 | 7 |  |  | 7 |  |  |  |  |  |  | 207.0 | 8 |  |  | 8 | SS-03 | 3 | 4 | 6 | 10 |  | 206.0 | 9 |  |  | 9 |  |  |  |  |  |  | 205.0 | 10 |  |  | 10 |  |  |  |  |  |  | 204.0 | 11 |  |  | 11 | SS-04 | 3 | 5 | 7 | 12 |  | 203.0 | 12 |  |  | 12 |  |  |  |  |  |  | 202.0 | 13 | SANDY CLAY; stiff to very stiff, mottled red-brown and grey, moist, low to medium plasticity. |  | 13 | SS-05 | 4 | 6 | 8 | 14 |  | 201.0 | 14 |  |  | 14 |  |  |  |  |  |  | 200.0 | 15 |  |  | 15 |  |  |  |  |  |  | 199.0 | 16 |  |  | 16 | SS-06 | 4 | 7 | 9 | 16 |  | 198.0 | 17 |  |  | 17 |  |  |  |  |  |  | 197.0 | 18 |  |  | 18 | SS-07 | 5 | 9 | 12 | 21 |  | 196.0 | 19 |  |  | 19 |  |  |  |  |  |  | 195.0 | 20 |  |  | 20 |  |  |  |  |  |  | 194.0 | 21 |  |  | 21 | SS-08 | 6 | 11 | 14 | 25 |  | 193.0 | 22 | RESIDUAL SILTY SAND; medium dense to very dense, orange-brown, moist, with weathered rock fragments; auger refusal at 30.0 ft. |  | 22 |  |  |  |  |  |  | 192.0 | 23 |  |  | 23 | SS-09 | 7 | 13 | 17 | 30 |  | 191.0 | 24 |  |  | 24 |  |  |  |  |  |  | 190.0 | 25 |  |  | 25 |  |  |  |  |  |  | 189.0 | 26 |  |  | 26 | SS-10 | 8 | 17 | 22 | 39 |  | 188.0 | 27 |  |  | 27 |  |  |  |  |  |  | 187.0 | 28 |  |  | 28 | SS-11 | 10 | 22 | 28 | 50 |  | 186.0 | 29 |  |  | 29 | SS-12 | 15 | 25 | 35 | 60 |  | 185.0 | 30 |  |  | 30 |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Depth (ft) | MATERIAL DESCRIPTION                                                                                                           | Graphic Log | Depth (ft)                                                                        | Sample No. /Type                             | 1st 6" | 2nd 6" | 3rd 6" | N Value    | STD. PENETRATION TEST DATA (blows/12") |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| 214.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0          | Ground Surface                                                                                                                 |             | 0                                                                                 |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          | ASPHALT CONCRETE; dense, intact, dark grey.                                                                                    |             | 1                                                                                 |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| 213.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2          | AGGREGATE BASE; crushed stone, dense, grey, moist.                                                                             |             | 2                                                                                 |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| 212.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3          | SILTY SAND FILL; loose to compact, brown, moist, trace gravel.                                                                 |             | 3                                                                                 | SS-01                                        | 3      | 4      | 5      | 9          | <                                      |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| 211.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 210.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5          | FINE SAND; loose to medium dense, tan to grey, moist becoming wet below 11.5 ft, trace silt.                                   |             | 5                                                                                 |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| 209.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 208.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 207.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 206.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 205.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 204.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 203.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 202.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 13         | SANDY CLAY; stiff to very stiff, mottled red-brown and grey, moist, low to medium plasticity.                                  |             | 13                                                                                | SS-05                                        | 4      | 6      | 8      | 14         |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| 201.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 200.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 198.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 197.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 196.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 195.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 194.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 193.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 22         | RESIDUAL SILTY SAND; medium dense to very dense, orange-brown, moist, with weathered rock fragments; auger refusal at 30.0 ft. |             | 22                                                                                |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
| 192.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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  |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  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| 191.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 190.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 189.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 188.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 187.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 186.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| LEGEND                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| SAMPLER TYPE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| SS - Split Spoon<br>ST - Shelby Tube<br>AWG - Rock Core, 1-1/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                                |             | NQ - Rock Core, 1-7/8"<br>CU - Cuttings-<br>CT - Continuous Tube                  |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
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Hollow Stem Auger<br>CFA - Continuous Flight Augers<br>D C - Driving Casing |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |
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Rotary Wash<br>RC - Rock Core                                                |                                              |        |        |        |            |                                        |             |            |                  |        |        |        |         |                                        |       |   |                |  |   |  |  |  |  |  |  |  |   |                                             |  |   |  |  |  |  |  |  |       |   |                                                    |  |   |  |  |  |  |  |  |       |   |                                                                |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |                                                                                              |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |   |   |       |   |  |  |   |  |  |  |  |  |  |       |   |  |  |   |       |   |   |   |    |  |       |   |  |  |   |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |                                                                                               |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |   |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |   |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |                                                                                                                                |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |   |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |       |    |    |    |    |  |       |    |  |  |    |  |  |  |  |  |  |