

# Drilling Log

|                                                   |               |                    |                 |                                             |                |                            |               |
|---------------------------------------------------|---------------|--------------------|-----------------|---------------------------------------------|----------------|----------------------------|---------------|
| Project Name <b>CESSNA</b>                        |               |                    |                 |                                             |                | Boring No. <b>C-4</b>      |               |
| Project No. <b>85-141-4-001</b>                   |               |                    |                 |                                             |                | Page <b>1</b> of <b>3</b>  |               |
| Ground Elevation <b>TOP</b><br><b>1297.90</b>     |               |                    | Location        |                                             |                | Total Footage <b>45.0'</b> |               |
| Drilling Type                                     | Hole Size     | Overburden Footage | Bedrock Footage | No. of Samples                              | No. Core Boxes | Depth To Water             | Date Measured |
| <b>HSA</b>                                        | <b>6 1/4"</b> | <b>45.0'</b>       | <b>0'</b>       | <b>7</b>                                    | <b>0</b>       | <b>See Remarks</b>         | <b>—</b>      |
| Drilling Co. <b>Layne - Western Company, Inc.</b> |               |                    |                 | Driller (s) <b>Buck Blank + Bryan Meyer</b> |                |                            |               |
| Drilling Rig. <b>CME 750 (ATV)</b>                |               |                    |                 | Type of Penetration Test <b>Standard</b>    |                |                            |               |
| Date <b>8-12-86</b>                               |               | To <b>8-13-86</b>  |                 | Field Observer (s) <b>J. David Langford</b> |                |                            |               |

  

| Depth | Description                                                                             | Class. | Blow Count       | Recov.           | Sample or Box No. | Remarks              |
|-------|-----------------------------------------------------------------------------------------|--------|------------------|------------------|-------------------|----------------------|
|       |                                                                                         |        |                  |                  |                   | <b>Start 4:05 PM</b> |
| 1     |                                                                                         |        |                  |                  |                   |                      |
| 2     |                                                                                         |        |                  |                  |                   |                      |
| 3     |                                                                                         |        |                  |                  |                   |                      |
| 4     |                                                                                         |        |                  |                  |                   |                      |
| 5     | <b>Brown + Grayish Brown Silty Clay, Moist, Med. Plastic, w/ some fine sand, Stiff.</b> |        | <b>2 1/4 / 5</b> | <b>18" / 18"</b> | <b>SS-1</b>       |                      |
| 6     |                                                                                         |        |                  |                  |                   |                      |
| 7     |                                                                                         |        |                  |                  |                   |                      |
| 8     |                                                                                         |        |                  |                  |                   |                      |
| 9     | <b>Rusty Brown Sandy Silty Clay, Moist to wet, Med. Plastic, w/ Fine Sand.</b>          |        | <b>3 / 2 1/2</b> | <b>18" / 18"</b> | <b>SS-2</b>       |                      |
| 10    |                                                                                         |        |                  |                  |                   |                      |
| 11    |                                                                                         |        |                  |                  |                   |                      |
| 12    |                                                                                         |        |                  |                  |                   |                      |
| 13    |                                                                                         |        |                  |                  |                   |                      |
| 14    |                                                                                         |        |                  |                  |                   |                      |

# Drilling Log, continued

| Project Name <b>CESSNA</b>      |                                                                                    |              |            |                    |                   | Boring No. <b>C-4</b>     |  |
|---------------------------------|------------------------------------------------------------------------------------|--------------|------------|--------------------|-------------------|---------------------------|--|
| Project No. <b>85-141-4-001</b> |                                                                                    |              |            |                    |                   | Page <b>2</b> of <b>3</b> |  |
|                                 |                                                                                    |              |            |                    |                   | Date <b>8-12-86</b>       |  |
| Depth                           | Description                                                                        | Log or Class | Blow Count | Core Recov. & Loss | Box or Sample No. | Remarks                   |  |
| 15                              | Rusty Brown Sandy Silty Clay, Moist to wet, Firm, w/ Fine sand, Med. Plastic.      |              | 2 1/2 / 14 | 18" / 18"          | SS-3              |                           |  |
| 16                              |                                                                                    |              |            |                    |                   |                           |  |
| 17                              |                                                                                    |              |            |                    |                   |                           |  |
| 18                              |                                                                                    |              |            |                    |                   |                           |  |
| 19                              |                                                                                    |              |            |                    |                   |                           |  |
| 20                              | Lt. Brown to Tan Sandy Clay, Moist to wet, Med. Plastic, Fine to Medium Sand, Firm |              | 4 1/3 / 5  | 18" / 18"          | SS-4              |                           |  |
| 21                              |                                                                                    |              |            |                    |                   |                           |  |
| 22                              |                                                                                    |              |            |                    |                   |                           |  |
| 23                              |                                                                                    |              |            |                    |                   |                           |  |
| 24                              |                                                                                    |              |            |                    |                   |                           |  |
| 25                              | Tan and Gray Clay, Moist, Highly Plastic, Stiff.                                   |              | 3 1/4 / 5  | 18" / 18"          | SS-5              |                           |  |
| 26                              |                                                                                    |              |            |                    |                   |                           |  |
| 27                              |                                                                                    |              |            |                    |                   |                           |  |
| 28                              | Brown Sand, Wet, Fine to Medium, Loose.                                            |              | 2 1/16     | 16" / 18"          | SS-6              |                           |  |
| 29                              |                                                                                    |              |            |                    |                   |                           |  |
| 30                              |                                                                                    |              |            |                    |                   |                           |  |
| 31                              |                                                                                    |              |            |                    |                   |                           |  |

First Encountered  
Free groundwater  
@ 29.5'

# Drilling Log, continued

| Project Name <b>CESSNA</b>      |                                         |              |            |                    |                   | Boring No. <b>C-4</b>                                                                                                                                                                                                                                                            |  |
|---------------------------------|-----------------------------------------|--------------|------------|--------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Project No. <b>85-141-4-001</b> |                                         |              |            |                    |                   | Page <b>3</b> of <b>3</b>                                                                                                                                                                                                                                                        |  |
|                                 |                                         |              |            |                    |                   | Date <b>8-12-86</b>                                                                                                                                                                                                                                                              |  |
| Depth                           | Description                             | Log or Class | Blow Count | Core Recov. & Loss | Box or Sample No. | Remarks                                                                                                                                                                                                                                                                          |  |
| 32                              | Brown Sand, wet, Fine to Medium, Loose. |              | 2 1/6      | 16" / 15"          | SS-6              |                                                                                                                                                                                                                                                                                  |  |
| 33                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 34                              | -----                                   |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 35                              | Tan Silty Sand, Saturated, Fine Sand.   |              |            |                    | SS-7              | Unable to obtain SPT. Collected sample from cuttings.                                                                                                                                                                                                                            |  |
| 36                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 37                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 38                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 39                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 40                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 41                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 42                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 43                              | Same as above, Fine to Coarse Sand      |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 44                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 45                              | T.D. = 45.0'                            |              |            |                    |                   | Drilled to 45' w/ HSA @ 5:50pm. Set up to rotary wash and clean out HSA @ 7:15 pm. Set 2" Ø PVC casing to 45' @ 7:30pm. Completed pulling HSA @ 7:45pm. Hole caved to 28.0'. Bentonite pellet seal from 24.0' to 28.0'. H <sub>2</sub> O @ 20'-10" Below T.O.P. upon completion. |  |
| 46                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 47                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |
| 48                              |                                         |              |            |                    |                   |                                                                                                                                                                                                                                                                                  |  |

