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<th>Depth (ft)</th>
<th>Sampling Method</th>
<th>Time</th>
<th>PID Reading</th>
<th>USCS Symbol</th>
<th>Percent Recovery</th>
<th>Soil Characteristics &amp; Remarks</th>
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<td>DP</td>
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</tbody>
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NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI  BORING/WELL NO.: A3
FACILITY#: CAMP MINDEN  DATE COMPLETED: 08/17/2015
ADDRESS: AREA 1 DISPOSAL SITE  GW DEPTH (ENCOUNTERED): NA
CITY,STATE: MINDEN, LOUISIANA  GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001  WELL T-O-C ELEVATION: NA

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<th>DEPTH (FT)</th>
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<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
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<tr>
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<td>DP</td>
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<td>NM</td>
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NOTE:
BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
# SOIL BORING AND WELL CONSTRUCTION LOG

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<thead>
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<td>GW DEPTH (ENCOUNTERED):</td>
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<td>CITY,STATE:</td>
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<td>GW DEPTH (STATIC):</td>
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<td>WELL T-O-C ELEVATION:</td>
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**NOTE:**
Borehole was terminated at 2 ft. BGS., bore hole was plugged and abandoned on August 20, 2015.)
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI  BORING/WELL NO.: A1.6
FACILITY#: CAMP MINDEN  DATE COMPLETED: 08/17/2015
ADDRESS: AREA I DISPOSAL SITE  GW DEPTH (ENCOUNTERED): NA
CITY,STATE: MINDEN, LOUISIANA  GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001  WELL T-O-C ELEVATION: NA

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<th>PERCENT RECOVERY</th>
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NOTE: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)

N = ALL TIMES MILITARY  NO = NO RECOVERY
O = ☆ - SAMPLE ANALYZED  DP = DIRECT PUST
T = GW = GROUNDWATER  NM = NOT MEASURED
E = HA = HAND AUGER  ST = SHELBY TUBE
S = NA = NOT APPLICABLE  TD = TOTAL DEPTH

DRILLING COMPANY: DEVONIAN GROUP  DRILLER NAME: CORY HEBERT
DRILL RIG TYPE: 6620 DT  DRILL DIAM & MATH: 2 INCH DIRECT PUSH
SEMS, INC., REP.: GARY BYRD/BEN DUREL

NOTES:

CLAY  SAND PACK  SILT

SEMS Inc.
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**NOTE:**
Borehole was terminated at 2 ft. BGS., bore hole was plugged and abandoned on August 20, 2015.
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI  BORING/WELL NO.: C1.6
FACILITY#: CAMP MINDEN  DATE COMPLETED: 08/17/2015
ADDRESS: AREA 1 DISPOSAL SITE  GW DEPTH (ENCOUNTERED): NA
CITY,STATE: MINDEN, LOUISIANA  GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001  WELL T-O-C ELEVATION: NA

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<th>Depth (FT)</th>
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<td>NM</td>
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<td>stiff red CLAY</td>
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NOTE:
BOREHOLE WAS TERMINATED AT 2 FT.
BGS., BORE HOLE WAS PLUGGED AND
ABANDONED ON AUGUST 20, 2015.

DRILLING COMPANY: DEVONIAN GROUP
DRILLER NAME: CORY HEBERT
DRILL RIG TYPE: 6620 DT
DRILL DIA&M. METH.: 2 INCH DIRECT PUSH
SEMS, INC., REP.: GARY BYRD/BEN DUREL

SOIL/GRAPHIC SYMBOL
CAP

DEMAND

SAND PACK
CLAY
SILT

NOTES

N  ALL TIMES MILITARY  NR-NO RECOVERY
O  =SAMPLE ANALYZED  DP-DIRECT PUST
T  GW-GROUNDWATER  NM-NOT MEASURED
E  HA-HAND AUGER  ST-SHELBY TUBE
S  NA-NOT APPLICABLE  TD-TOTAL DEPTH

SEMSS, Inc.
**SOIL BORING AND WELL CONSTRUCTION LOG**

- **OWNER:** ESI
- **BORING/WELL NO.:** C3
- **FACILITY #:** CAMP MINDEN
- **DATE COMPLETED:** 08/17/2015
- **ADDRESS:** AREA I DISPOSAL SITE
- **GW DEPTH (ENCOUNTERED):** NA
- **CITY, STATE:** MINDEN, LOUISIANA
- **GW DEPTH (STATIC):** NA
- **PROJECT ID #:** 750-0001
- **WELL T-O-C ELEVATION:** NA

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**NOTE:**

Borehole was terminated at 2 ft. BGS, bore hole was plugged and abandoned on August 20, 2015.

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**NOTES:**

- ALL TIMES MILITARY
- NR—NO RECOVERY
- ★—SAMPLE ANALYZED
- DP—DIRECT PUST
- GW—GROUNDWATER
- NM—NOT MEASURED
- HA—HAND AUGER
- ST—SHELBY TUBE
- NA—NOT APPLICABLE
- TD—TOTAL DEPTH

**DRILLING COMPANY:** DEVONIAN GROUP
**DRILLER NAME:** CORY HEBERT
**DRILL RIG TYPE:** 6620 DT
**DRILL DIAM & METH.:** 2 INCH DIRECT PUSH
**SEMS, INC., REP.:** GARY BYRD/BEN DUREL
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BORING/WELL NO.:** C5  
**FACILITY #:** CAMP MINDEN  
**DATE COMPLETED:** 08/17/2015  
**ADDRESS:** AREA 1 DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA  
**CITY, STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA  
**PROJECT ID #:** 750-0001  
**WELL T-O-C ELEVATION:** NA

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**NOTE:** BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
**SOIL BORING AND WELL CONSTRUCTION LOG**

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<td>GW DEPTH (ENCOUNTERED):</td>
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<td>CITY,STATE:</td>
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<td>PROJECT ID#:</td>
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<td>WELL T-O-C ELEVATION:</td>
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<td>NM</td>
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<td>stiff red CLAY</td>
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**NOTE:**

BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BORING/WELL NO.:** E-3  
**FACILITY#:** CAMP MINDEN  
**DATE COMPLETED:** 08/17/2015  
**ADDRESS:** AREA 1 DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA  
**CITY,STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA  
**PROJECT ID#:** 750-0001  
**WELL T-O-C ELEVATION:** NA

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<td>2</td>
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<td>Top 8 inches consist of large pebbles &gt;2 inches long with poorly sorted sand and silt grains. Second foot-light gray colored siltly layer with Fe particlals grades into dark brown, hard, dry.</td>
</tr>
</tbody>
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**NOTE:**  
Borehole was terminated at 2 ft. BGS, bore hole was plugged and abandoned on August 20, 2015.)
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BORING/WELL NO.:** G1

**FACILITY:** CAMP MINDEN  
**DATE COMPLETED:** 08/17/2015

**ADDRESS:** AREA I DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA

**CITY, STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA

**PROJECT ID#:** 750-0001  
**WELL T-O-C ELEVATION:** NA

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<td>top 8 inches, loose PEBBLES. Second foot-gray CLAY turning brown</td>
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</tbody>
</table>

**NOTE:**  
BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
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<td>stiff gray CLAY to 2' trending to red</td>
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**NOTE:** BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BORING/WELL NO.:** G3

**FACILITY#:** CAMP MINDEN  
**DATE COMPLETED:** 08/17/2015

**ADDRESS:** AREA 1 DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA

**CITY,STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA

**PROJECT ID#:** 750-0001  
**WELL T-O-C ELEVATION:** NA

### Soil characteristics & Remarks

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<th>Depth (ft)</th>
<th>Sampling Method</th>
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<td>top foot: 0-6 inches: dry SANDY SILT, brown with patches. 6-12 inches: poorly sorted SANDS and PEBBLES up to 1-1/2 inch long.  second foot: CLAY-ISH SILT with some SAND pockets, red—brown mainly with some light gray.</td>
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**NOTE:** BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)

**NOTES:**

- ALL TIMES MILITARY NR—NO RECOVERY
- ✴ SAMPLE ANALYZED DP—DIRECT PUSH
- GW—GROUNDWATER NM—NOT MEASURED
- HA—HAND AUGER ST—SHELBY TUBE
- NA—NOT APPLICABLE TD—TOTAL DEPTH

**DRILLING COMPANY:** DEVONIAN GROUP  
**DRILLER NAME:** CORY HEBERT  
**DRILL RIG TYPE:** 6620 DT  
**DRILL DIAM & METH.:** 2 INCH DIRECT PUSH  
**SEMS, INC., REP.:** GARY BYRD/GEN. DUREL
<table>
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</tbody>
</table>

**NOTE:**
- Top foot: brittle CLAY SILT with minor amounts of SAND. Mainly gray SILT with pockets of red and orange color.
- Second foot: dense gray SILTY CLAY with numerous red and orange pockets of CLAY.

BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)

---

**NOTES:**
- ALL TIMES MILITARY NR—NO RECOVERY
- SAMPLE Analyzed DP—DIRECT PUST
- GW—GROUNDWATER NM—NOT MEASURED
- HA—HAND AUGER ST—SHELBY TUBE
- NA—NOT APPLICABLE TD—TOTAL DEPTH

**DRILLING COMPANY:** DEVONIAN GROUP
**DRILLER NAME:** CORY HEBERT
**DRILL RIG TYPE:** 6520 GT
**DRILL DIA&M. METH.:** 2 INCH DIRECT PUSH
**SEMS, INC., REF.:** CARY BYRD/BEN DUREL
<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1500</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>top foot: gray-brown Silt layer 0-4 inches, 4-12 inches: gray Silty Clay with red-orange pockets and nodules</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>second foot: gray Clay with red-orange nodules</td>
</tr>
</tbody>
</table>

**NOTE:** Borehole was terminated at 2 ft. BGS, bore hole was plugged and abandoned on August 20, 2015.
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Sampling Method</th>
<th>Time</th>
<th>PID</th>
<th>USCS Symbol</th>
<th>Percent Recovery</th>
<th>Soil Characteristics &amp; Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1600</td>
<td>NM</td>
<td>CL</td>
<td>1.00</td>
<td>first foot: gray SILTY CLAY with minor red-orange nodules second foot: dark gray CLAY with red-orange nodules</td>
</tr>
</tbody>
</table>

**Note:**
Borehole was terminated at 2 ft. BGS, bore hole was plugged and abandoned on August 20, 2015.
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI
BORING/WELL NO.: K3
FACILITY#: CAMP. MINDEN
DATE COMPLETED: 08/17/2015
ADDRESS: AREA I DISPOSAL SITE
GW DEPTH (ENCOUNTERED): NA
CITY, STATE: MINDEN, LOUISIANA
GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001
WELL T-O-C ELEVATION: NA

DEPTH (FT) | SAMPLING METHOD | TIME | PID READING | USCS SYMBOL | PERCENT RECOVERY | SOIL CHARACTERISTICS & REMARKS | SOIL/GRAPHIC SYMBOL | DEPTH (FT)
---|---|---|---|---|---|---|---|---
2 | DP | 1610 | NM | CL | 100 | --gray–tan SILTY CLAY, red–orange Fe nodules throughout | CAP |

NOTE:
BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)

N | ALL TIMES MILITARY | NR—NO RECOVERY | DRILLING COMPANY: DEVONIAN GROUP
O | ★—SAMPLE ANALYZED | DP—DIRECT PUST | DRILLER NAME: CORY HEBERT
T | GW—GROUNDWATER | NM—NOT MEASURED | DRILL RIG TYPE: 4820 DT
E | HA—HAND AUGER | ST—SHELBY TUBE | DRILL DIA&M. METH.: 2 INCH DIRECT PUSH
S | NA—NOT APPLICABLE | TD—TOTAL DEPTH | SEMS, INC., REP.: GARY BYRD/BEN DUBEY
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BOARING/WELL NO.:** K5  
**FACILITY#:** CAMP MINDEN  
**DATE COMPLETED:** 08/17/2015  
**ADDRESS:** AREA 1 DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA  
**CITY,STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA  
**PROJECT ID#:** 750-0001  
**WELL T–O–C ELEVATION:** NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
<th>SOIL/SPECIFIC SYMBOL</th>
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<tr>
<td>2</td>
<td>DP</td>
<td>1620</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>very fine SANDY SILTY CLAY, tan brown color, red-orange nodules throughout Note: BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.</td>
<td>CAP</td>
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</tbody>
</table>

**NOTES**

- ALL TIMES MILITARY
- NT—SAMPLE ANALYZED
- DT—DIRECT PUST
- GW—GROUNDWATER
- NM—NOT MEASURED
- HA—HAND AUGER
- ST—SHELBY TUBE
- NA—NOT APPLICABLE

**DRILLING COMPANY:** DEVONIAN GROUP  
**DRILLER NAME:** CORY HEBERT  
**DRILL RIG TYPE:** 6620 DT  
**DRILL DIAM & METH:** 2 INCH DIRECT PUST  
**SEMS, INC., REP.:** GARY BYRD/GEN DUREL

---

**SEMIS, Inc.**
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BORING/WELL NO.:** K1  
**FACILITY#:** CAMP MINDEN  
**DATE COMPLETED:** 08/17/2015  
**ADDRESS:** AREA I DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA  
**CITY,STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA  
**PROJECT ID#:** 750-0001  
**WELL T-O-C ELEVATION:** NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
</tr>
</thead>
</table>
| 2          | DP              | 1645 | NM          | CL           | 100              | - first foot:  
              0-6 inches: CLAY-ISH SILT, tan brown  
              6-24 inches: gray-brown SILTY CLAY with red-orange nodules |

**NOTE:** BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)

**SOIL SYMBOL**  
-  
-  

**DEPT (FT)**  
-  
-  

**DRILLING COMPANY:** DEVONIAN GROUP  
**DRILLER NAME:** CORY HEBERT  
**DRILL RIG TYPE:** 6620 DT  
**DRILL DIAM. METH.:** 2 INCH DIRECT PUSH  
**SEMS, INC., REP.:** GARY BYRD/DPN DUREL  

**NOTES**

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<th>N</th>
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<td>N</td>
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<tr>
<td>30</td>
<td>ALL TIMES MILITARY</td>
<td>NR-NO RECOVERY</td>
<td>DP-DIRECT PUST</td>
<td>DM-DIRECT MANDU</td>
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<tr>
<td>28</td>
<td>GW-GROUNDWATER</td>
<td>NM-NOT MEASURED</td>
<td>ST-SHELBY TUBE</td>
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<tr>
<td>24</td>
<td>HA-HAND AUGER</td>
<td>NA-NOT APPLICABLE</td>
<td>TD-TOTAL DEPTH</td>
<td></td>
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**SEM5, Inc.**
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI
FACILITY#: CAMP MINDEN
ADDRESS: AREA I DISPOSAL SITE
CITY, STATE: MINDEN, LOUISIANA
PROJECT ID#: 750-0001
BORING/WELL NO.: 11
DATE COMPLETED: 08/17/2015
GW DEPTH (ENCOUNTERED): NA
GW DEPTH (STATIC): NA
WELL T-O-C ELEVATION: NA

<table>
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<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID</th>
<th>READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
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<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1700</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>--gray-brown SILTY CLAY with red-orange nodules throughout</td>
<td></td>
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</tbody>
</table>

NOTE:
BOR EHOLE WAS TERMINATED AT 2 FT.
BOE, BORE HOLE WAS PLUGGED AND
ABANDONED ON AUGUST 20, 2015.

NOTES:

DRILLING COMPANY: DEVONIAN GROUP
DRILLER NAME: CORY HEBERT
DRILL RIG TYPE: 6620 DT
DRILL DIAM & METH.: 2 INCH DIRECT PUSH
SEMS, INC., REP.: GARY RYRD/DAV DURELL

REDUCED SERVICE/SOIL BORINGS 11

SEMS, Inc.
### Soil Boring and Well Construction Log

**Owner:** ESI  
**Boring/Well No.:** M1 MS/MSD  
**Facility:** CAMP MINDEN  
**Date Completed:** 08/17/2015  
**Address:** AREA I DISPOSAL SITE  
**City, State:** MINDEN, LOUISIANA  
**Project ID:** 750-0001  
**GW Depth (Encountered):** NA  
**GW Depth (Static):** NA  
**Well T-O-C Elevation:** NA

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Sampling Method</th>
<th>Time</th>
<th>PID Reading</th>
<th>USCS Symbol</th>
<th>Percent Recovery</th>
<th>Soil Characteristics &amp; Remarks</th>
<th>Soil/Graphic Symbol</th>
<th>Depth (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1715</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>tan-grey SILTY-CLAY with orange-red pockets of CLAY</td>
<td>CAP</td>
<td>2</td>
</tr>
</tbody>
</table>

**Note:**
Borehole was terminated at 2 ft. BGS, bore hole was plugged and abandoned on August 20, 2015.

---

**Notes:**
- All Times Military: NR — No Recovery  
- Sample Analyzed: DP — Direct Push  
- Groundwater: NM — Not Measured  
- Hand Auger: ST — Shelby Tube  
- Not Applicable: TD — Total Depth

**Drilling Company:** Devonian Group  
**Driller Name:** Cory Hbert  
**Drill Rig Type:** 6620 DT  
**Drill Diameter & Method:** 2 Inch Direct Push  
**SEMS, Inc., Rep.:** Gary Byrd/Ben Durel
<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>0800</td>
<td>NM</td>
<td>CL</td>
<td>.100</td>
<td>-first foot: tan-gray Silty layer with very fine SAND and CLAY</td>
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<td>-second foot: tan-gray CLAY with red-orange nodules</td>
</tr>
</tbody>
</table>

**NOTE:**
Borehole was terminated at 2 ft. BGS., bore hole was plugged and abandoned on August 20, 2015.)

- CLAY
- SAND PACK
- SILT

**NOTES**
- ALL TIMES MILITARY NR—NO RECOVERY
- DP—DIRECT PUST
- NM—NOT MEASURED
- ST—SHELBY TUBE
- TD—TOTAL DEPTH

**DRILLING COMPANY:** DEVONIAN GROUP
**DRILLER NAME:** CORY HEBERT
**DRILL RIG TYPE:** 6620 DT
**DRILL DIA & METHOD:** 2 INCH DIRECT PUST
**SEMS, INC., REP.:** CARY BYRD/BEN DUREL
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI  BORING/WELL NO.: M3
FACILITY#: CAMP MINDEN  DATE COMPLETED: 08/18/2015
ADDRESS: AREA 1 DISPOSAL SITE
CITY,STATE: MINDEN, LOUISIANA
PROJECT ID#: 750-0001
GW DEPTH (ENCOUNTERED): NA
GW DEPTH (STATIC): NA
WELL T–O–C ELEVATION: NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>0815</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>-tan brown SILTY CLAY with very fine sand present as well as red and orange CLAY nodules</td>
</tr>
</tbody>
</table>

NOTE:
BOREHOLE WAS TERMINATED AT 2 FT.
BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.

NOTES:
ALL TIMES MILITARY
STAR – SAMPLE ANALYZED
GW – GROUNDWATER
HA – HAND AUGER
NA – NOT APPLICABLE
NR – NO RECOVERY
DIRECT PUST
NOT MEASURED
SHELBY TUBE
TO – TOTAL DEPTH

DRILLING COMPANY: DEVONIAN GROUP
DRILLER NAME: CORY HEBERT
DRILL RIG TYPE: 6620 DT
DRILL DIAM & METHOD: 2 INCH DIRECT PUSH
SEMS, INC., REP.: GARY BYRD/GLEN DUREL
**SOIL BORING AND WELL CONSTRUCTION LOG**

- **OWNER:** ESI
- **BORING/WELL NO.:** L4
- **FACILITY #:** CAMP MINDEN
- **DATE COMPLETED:** 08/17/2015
- **ADDRESS:** AREA I DISPOSAL SITE
- **GW DEPTH (ENCOUNTERED):** NA
- **GW DEPTH (STATIC):** NA
- **CITY, STATE:** MINDEN, LOUISIANA
- **WELL T-O-C ELEVATION:** NA
- **PROJECT ID #:** 750-0001

**DEPTH (FT)** | **SAMPLING METHOD** | **TIME** | **PID** | **READING** | **USCS SYMBOL** | **PERCENT RECOVERY** | **SOIL CHARACTERISTICS & REMARKS** | **SOIL/GRAPHIC SYMBOL** | **DEPTH (FT)**
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
2 | DP | 0840 | NM | CL | .100 | -top 6 inches: poorly sorted coarse to fine brown and orange SAND grains, poorly sorted with pebbles  
-6-24 inches: dense gray CLAY with minor orange-red nodules

**NOTE:** BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)

**CODES:**
- N: ALL TIMES MILITARY  
- O: NR—NO RECOVERY  
- T: SAMPLE ANALYZED  
- S: DIRECT PUST  
- E: GROUNDWATER  
- H: NOT MEASURED  
- A: HAND AUGER  
- S: SHELBY TUBE  
- T: NOT APPLICABLE  

**DRILLING COMPANY:** DEVOonian GROUP  
**DRILLER NAME:** CORY HEBERT  
**DRILL RIG TYPE:** 6620 DT  
**DRILL DIAM & METHOD:** 2 INCH DIRECT PUST  
**SEMS, INC., REP.:** CARY BYRD/BEN DUREL
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI
BORING/WELL NO.: M5
FACILITY#: CAMP MINDEN
DATE COMPLETED: 08/18/2015
ADDRESS: AREA I DISPOSAL SITE
GW DEPTH (ENCOUNTERED): NA
CITY, STATE: MINDEN, LOUISIANA
GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001
WELL T-O-C ELEVATION: NA

<table>
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<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
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<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>0850</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>-tan-gray SILTY CLAY with some very fine SAND, orange nodules present</td>
</tr>
</tbody>
</table>

NOTE:
BOREHOLE WAS TERMINATED AT 2 FT.
BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.

DRILLING COMPANY: DEVONIAN GROUP
DRILLER NAME: CORY HEBERT
DRILL RIG TYPE: 6620 DT
DRILL DIAM & METH.: 2 INCH DIRECT PUSH
SEMS, INC., REP.: GARY BYRD/BEN DUREL
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI  BORING/WELL NO.: PO.7
FACILITY#: CAMP MINDEN  DATE COMPLETED: 08/18/2015
ADDRESS: AREA I DISPOSAL SITE  GW DEPTH (ENCOUNTERED): NA
CITY,STATE: MINDEN, LOUISIANA  GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001  WELL T-O-C ELEVATION: NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
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</thead>
<tbody>
<tr>
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<td>NM</td>
<td>CL</td>
<td>100</td>
<td>gray-blue CLAY with minor SILT, soft, throughout minor red-orange nodules</td>
</tr>
</tbody>
</table>

NOTE:
BOREHOLE WAS TERMINATED AT 2 FT.
BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>0920</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>SILTY red and gray CLAY, primarily red-orange</td>
</tr>
</tbody>
</table>

NOTE:
BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.

N: ALL TIMES MILITARY, NR—NO RECOVERY
O: SAMPLE ANALYZED
T: GROUNDWATER, NM—NOT MEASURED
E: HAND AUGER, ST—SHELBY TUBE
S: NOT APPLICABLE, TD—TOTAL DEPTH

DRILLING COMPANY: DEVONIAN GROUP
DRILLER NAME: GARY HEBERT
DRILL RIG TYPE: 6620 DT
DRILL DIAM. METH.: 2 INCH DIRECT PUSH
SEMS, INC., REP.: CARY BYRD/BEN DUREL
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BORING/WELL NO.:** PO.2  
**FACILITY #:** CAMP MINDEN  
**DATE COMPLETED:** 08/18/2015  
**ADDRESS:** AREA I DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA  
**CITY, STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA  
**PROJECT ID #:** 750-0001  
**WELL T–O–C ELEVATION:** NA

<table>
<thead>
<tr>
<th>Depth (FT)</th>
<th>Sampling Method</th>
<th>Time</th>
<th>PID Reading</th>
<th>USCS Symbol</th>
<th>Percent Recovery</th>
<th>Soil Characteristics &amp; Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>0940</td>
<td>NM</td>
<td>SP</td>
<td>CL 100</td>
<td>Top soil: dark brown SILT for first 8 inches</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Poorly sorted coarse SAND &gt;2 cm long mixed with fine SAND 4 inches long</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Remainder is a red SILT layer with poorly very fine SAND and minor CLAY present</td>
</tr>
</tbody>
</table>

**NOTE:** Borehole was terminated at 2 ft. BGS, BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.

<table>
<thead>
<tr>
<th>Depth (FT)</th>
<th>Soil Symbol</th>
<th>Soil Characteristic</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>CAP</td>
<td>Cap</td>
</tr>
<tr>
<td>30</td>
<td>CLAY</td>
<td>Clay</td>
</tr>
</tbody>
</table>

**NOTES:**

- **ALL TIMES MILITARY**
- **NR—NO RECOVERY**
- **DP—DIRECT PUST**
- **NM—NOT MEASURED**
- **ST—SHELBY TUBE**
- **TD—TOTAL DEPTH**
- **DEVONIAN GROUP**
- **CORY HEBERT**
- **8620 DT**
- **2 INCH DIRECT PUSH**
- **GARY BYRD/GEN DUREL**
- **SEMS, INC., REP.:**
<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Sampling Method</th>
<th>Time</th>
<th>PID Reading</th>
<th>USCS Symbol</th>
<th>Percent Recovery</th>
<th>Soil Characteristics &amp; Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1010</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>-top 6 inches: SANDY SILT, tan-orange in color</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>-6-24 inches: SANDY CLAY, primarily orange in color with numerous pebble sized CLAY throughout</td>
</tr>
</tbody>
</table>

**NOTES:**
1) COLLECTED ADDITIONAL SAMPLES FOR CLIENT AND EXTRA ANALYSIS
2) BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI  BORING/WELL NO.: P-0.4  MS/MSD
FACILITY#: CAMP MINDEN  DATE COMPLETED: 08/18/2015
ADDRESS: AREA I DISPOSAL SITE  GW DEPTH (ENCOUNTERED): NA
CITY,STATE: MINDEN, LOUISIANA  GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001  WELL T-O-C ELEVATION: NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USC CLASS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1030</td>
<td>NM</td>
<td>SC</td>
<td>100</td>
<td>orange and gray CLAY SILT layers, primarily orange and periodically has very fine SAND present.</td>
</tr>
</tbody>
</table>

NOTE:
BOROHOLE WAS TERMINATED AT 2 FT.
BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)

MILITARY NOT APPLICABLE

DRILLING COMPANY: DEVONIAN GROUP  DRILLER: CORY HEBERT  DRILL RIG TYPE: 6820 DT  DRILL DIAM. & METH.: 2 INCH DIRECT PUSH  SEMS, INC., REP.: GARY BYRD/BEN DUREL

NOTES

CLAY  SAND PACK  SILT

REDPLINE SERVICE/SOIL BORINGS/P-0.4
**SOIL BORING AND WELL CONSTRUCTION LOG**

**OWNER:** ESI  
**BORING/WELL NO.:** H2  
**FACILITY#:** CAMP MINDEN  
**DATE COMPLETED:** 08/18/2015  
**ADDRESS:** AREA I DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA  
**CITY,STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA  
**PROJECT ID#:** 750-0001  
**WELL T-O-C ELEVATION:** NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>PID SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
<th>SOIL/SOIL CANONICAL SYMBOL</th>
<th>DEPTH (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1300</td>
<td>NM</td>
<td>SP</td>
<td>SC/SP 100</td>
<td>first foot: CLAY poor SILT with some fine SAND, orange—light brown in color</td>
<td>CAP</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2nd foot: extremely poorly sorted orange and gray SAND</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.

**NOTES:**

- ALL TIMES MILITARY NR—NO RECOVERY
- GW—GROUNDWATER NM—NOT MEASURED
- HA—HAND AUGER ST—SHELBY TUBE
- NA—NOT APPLICABLE TD—TOTAL DEPTH

**DRILLING COMPANY:** Devonian Group  
**DRILLER NAME:** Cory Hbert  
**DRILL RIG TYPE:** 6620 DT  
**DRILL DIAM & MTH.:** 2 inch direct push  
**SEMS, INC., REP.:** Cary Byrd/Ben Durell
### SOIL BORING AND WELL CONSTRUCTION LOG

**Owner:** ESI  
**Facility #:** CAMP MINDEN  
**Address:** AREA I DISPOSAL SITE  
**City, State:** MINDEN, LOUISIANA  
**Project ID #:** 750-0001  
**Boring/Well No.:** B2.3  
**Date Completed:** 08/18/2015  
**GW Depth (Encountered):** NA  
**GW Depth (Static):** NA  
**Well T-O-C Elevation:** NA

<table>
<thead>
<tr>
<th>Depth (ft)</th>
<th>Sampling Method</th>
<th>Time</th>
<th>PID Reading</th>
<th>USCS Symbol</th>
<th>Percent Recovery</th>
<th>Soil Characteristics &amp; Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1320</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>gray brown orange SILTY CLAY</td>
</tr>
</tbody>
</table>

**Note:**
Boreshole was terminated at 2 ft. BGS, bore hole was plugged and abandoned on August 20, 2015.

**Drilling Company:** DEVONIAN GROUP  
**Driller Name:** CORY HEBERT  
**Drill Rig Type:** 6620 DT  
**Drill Dia & Meth:** 2 inch direct push  
**SEMS Inc., Rep:** CARY BYRD/BEN DUREL
SOIL BORING AND WELL CONSTRUCTION LOG

OWNER: ESI  BORING/WELL NO.: E 6.5
FACILITY#: CAMP MINDEN  DATE COMPLETED: 08/18/2015
ADDRESS: AREA 1 DISPOSAL SITE  GW DEPTH (ENCOUNTERED): NA
CITY,STATE: MINDEN, LOUISIANA  GW DEPTH (STATIC): NA
PROJECT ID#: 750-0001  WELL T-O-C ELEVATION: NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1345</td>
<td>NM</td>
<td>CL</td>
<td>100</td>
<td>–dark brown SANDY SILT for 6 inches then CLAY with brown-orange SILT</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
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<tr>
<td>30</td>
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</tr>
</tbody>
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NOTE:
BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.

N = ALL TIMES MILITARY  NR = NO RECOVERY
O = SAMPLE ANALYZED  DP = DIRECT PUST
T = GW = GROUNDWATER  NM = NOT MEASURED
E = HA = HAND AUGER  ST = SHELBY TUBE
S = NA = NOT APPLICABLE  TD = TOTAL DEPTH

DRILLING COMPANY: Devonian Group  DRILLER NAME: Cory Hebert
DRILL RIG TYPE: HsD-01  DRILL DIAM. & METH.: 2 INCH DIRECT PUSH
SEMS, INC., REP.: Cary Byrd/Ben Dubel

SEMS, Inc.
### SOIL BORING AND WELL CONSTRUCTION LOG

**OWNER:** ESI  
**BORING/WELL NO.:** F 7.5 MS/MSD  
**FACILITY#:** CAMP MINDEN  
**DATE COMPLETED:** 08/18/2015  
**ADDRESS:** AREA I DISPOSAL SITE  
**GW DEPTH (ENCOUNTERED):** NA  
**CITY,STATE:** MINDEN, LOUISIANA  
**GW DEPTH (STATIC):** NA  
**PROJECT ID#:** 750-0001  
**WELL T-O-C ELEVATION:** NA

<table>
<thead>
<tr>
<th>DEPTH (FT)</th>
<th>SAMPLING METHOD</th>
<th>TIME</th>
<th>PID READING</th>
<th>USCS SYMBOL</th>
<th>PERCENT RECOVERY</th>
<th>SOIL CHARACTERISTICS &amp; REMARKS</th>
<th>SOIL/GRAPHIC SYMBOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>1400</td>
<td>NM</td>
<td>SM</td>
<td>100</td>
<td>-gray and brown-orange SANDY SILT</td>
<td>CAP</td>
</tr>
</tbody>
</table>

**NOTE:**  
BOREHOLE WAS TERMINATED AT 2 FT. BGS., BORE HOLE WAS PLUGGED AND ABANDONED ON AUGUST 20, 2015.)
<table>
<thead>
<tr>
<th>Depth (FT)</th>
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<th>PID Reading</th>
<th>USCS Symbol</th>
<th>Percent Recovery</th>
<th>Soil Characteristics &amp; Remarks</th>
<th>Soil/Graphic Symbol</th>
<th>Depth (FT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>DP</td>
<td>14:30</td>
<td>NM</td>
<td>SM 100</td>
<td>Gray and brown to orange SANDY SILT</td>
<td>CAP</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**NOTE:**
Borehole was terminated at 2 FT. BGS., bore hole was plugged and abandoned on August 20, 2015.