

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>Name Top Datum |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used  |                   |                           |                   |               |                |              |                            |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. |                   |                           |                   |               |                |              |                            |
| Purpose of String   | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |
|   |                   |                           |                   |               |                |              |                            |

| ADDITIONAL CEMENTING / SQUEEZE RECORD  |                  |                |              |                            |
|--|------------------|----------------|--------------|----------------------------|
| Purpose:   | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

|   |  |         |             |               |         |
|---|--|---------|-------------|---------------|---------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |         |             |               |         |
| Estimated Production Per 24 Hours                                   | Oil Bbls.  | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |

|   |  |                                    |
|---|--|------------------------------------|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5) (Submit ACO-4)</i> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|--|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record<br><i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |

|                |       |         |            |  |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|

|           |                        |
|-----------|------------------------|
| Form      | ACO1 - Well Completion |
| Operator  | L. D. Drilling, Inc.   |
| Well Name | MIDDLETON 35-1         |
| Doc ID    | 1706029                |

All Electric Logs Run

|                                 |
|---------------------------------|
|                                 |
| Compensated Density/Neutron Log |
| Dual Induction Log              |
| Micro Log                       |
| Sonic Log                       |

|           |                        |
|-----------|------------------------|
| Form      | ACO1 - Well Completion |
| Operator  | L. D. Drilling, Inc.   |
| Well Name | MIDDLETON 35-1         |
| Doc ID    | 1706029                |

Tops

| Name           | Top  | Datum |
|----------------|------|-------|
| Anhydrite      | 1946 | +582  |
| Base Anhydrite | 1983 | +545  |
| Stotler        | 3348 | -820  |
| Heebner        | 3740 | -1212 |
| Lansing        | 3778 | -1250 |
| Stark          | 4030 | -1502 |
| Fort Scott     | 4278 | -1750 |
| Cherokee       | 4305 | -1777 |
| Mississippi    | 4383 | -1855 |





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

**DATE**

January  
**09**  
 2023

**DST #1 Formation: LKC "E" Test Interval: 3855 - 3875' Total Depth: 3875'**

Time On: 17:56 01/09 Time Off: 02:12 01/10  
 Time On Bottom: 20:35 01/09 Time Off Bottom: 23:35 01/09

Electronic Volume Estimate:

286'

1st Open

Minutes: 30

Current Reading:

7.3" at 30 min

Max Reading: 7.3"

1st Close

Minutes: 5

Current Reading:

0" at 5 min

Max Reading: 0"

2nd Open

Minutes: 45

Current Reading:

20.8" at 45 min

Max Reading: 20.8"

2nd Close

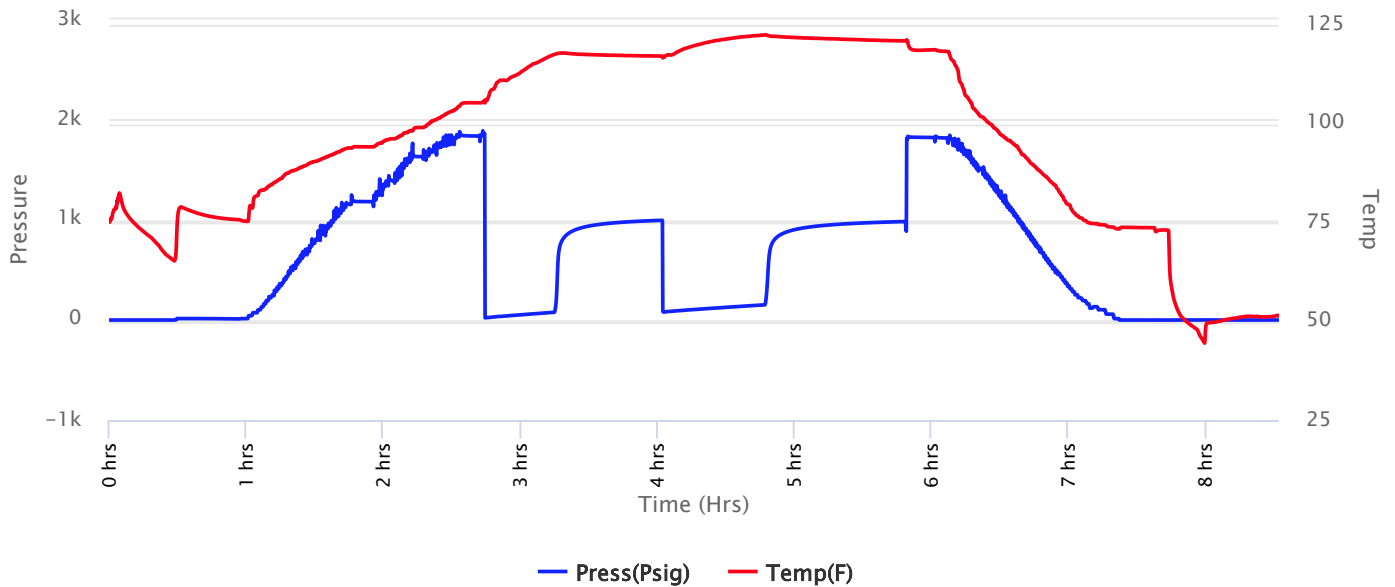
Minutes: 10

Current Reading:

0" at 10 min

Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**09**  
 2023

**DST #1 Formation: LKC "E" Test Interval: 3855 - 3875' Total Depth: 3875'**  
 Time On: 17:56 01/09 Time Off: 02:12 01/10  
 Time On Bottom: 20:35 01/09 Time Off Bottom: 23:35 01/09

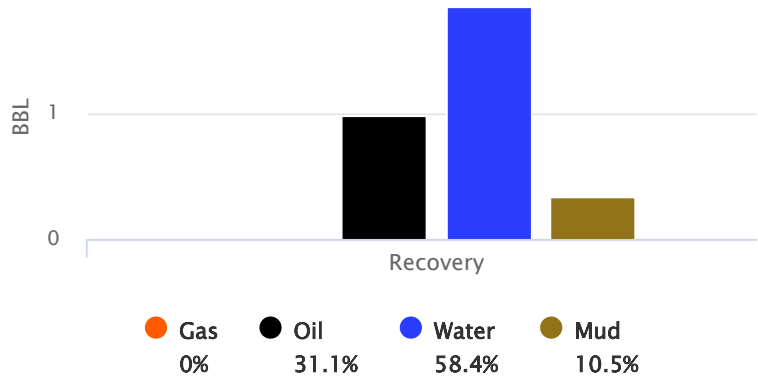
| Recovered |         |                      |       |       |         |       |
|-----------|---------|----------------------|-------|-------|---------|-------|
| Foot      | BBLs    | Description of Fluid | Gas % | Oil % | Water % | Mud % |
| 186       | 1.90836 | SLOCSLMCW            | 0     | 1     | 94      | 5     |
| 93        | 0.95418 | O                    | 0     | 100   | 0       | 0     |
| 31        | 0.31806 | SLOCWCM              | 0     | 5     | 20      | 75    |

Total Recovered: 310 ft  
 Total Barrels Recovered: 3.1806

Reversed Out  
 NO

|   |            |            |
|---|------------|------------|
| Initial Hydrostatic Pressure                | 1838       | PSI        |
| Initial Flow                                | 23 to 75   | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>993</b> | <b>PSI</b> |
| Final Flow Pressure                         | 82 to 148  | PSI        |
| <b>Final Closed in Pressure</b>             | <b>981</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 1824       | PSI        |
| Temperature                                 | 122        | °F         |
| Pressure Change Initial Close / Final Close | 1.2        | %          |

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

**DATE**

January  
**09**  
2023

| DST #1 | Formation: LKC "E"          | Test Interval: 3855 - 3875'  | Total Depth: 3875' |
|--------|-----------------------------|------------------------------|--------------------|
|        | Time On: 17:56 01/09        | Time Off: 02:12 01/10        |                    |
|        | Time On Bottom: 20:35 01/09 | Time Off Bottom: 23:35 01/09 |                    |

**BUCKET MEASUREMENT:**

1st Open: Wsb built to 7.25"

1st Close: No blow back

2nd Open: Wsb built to bob in 23 minutes

2nd Close: No blow back

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 97% Water 2% Mud

Gravity: 23.5 @ 60 °F

Measured RW: 1.8 @ 39 degrees °F

RW at Formation Temp: 0.64 @ 122 °F

Chlorides: 5300 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**09**  
 2023

**DST #1      Formation: LKC "E"      Test Interval: 3855 - 3875'      Total Depth: 3875'**  
 Time On: 17:56 01/09      Time Off: 02:12 01/10  
 Time On Bottom: 20:35 01/09      Time Off Bottom: 23:35 01/09

**Down Hole Makeup**

|  |                                 |
|--|---------------------------------|
| <b>Heads Up:</b> 14.57 FT  | <b>Packer 1:</b> 3850 FT        |
| <b>Drill Pipe:</b> 3837 FT<br><i>ID-3 1/4</i>  | <b>Packer 2:</b> 3855 FT        |
| <b>Weight Pipe:</b> FT<br><i>ID-2 7/8</i>  | <b>Top Recorder:</b> 3839.42 FT |
| <b>Collars:</b> FT<br><i>ID-2 1/4</i>  | <b>Bottom Recorder:</b> 3857 FT |
| <b>Test Tool:</b> 33.57 FT<br><i>ID-3 1/2-FH</i><br><i>Jars</i><br><i>Safety Joint</i> | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 20  | <b>Surface Choke:</b> 1"        |
| <u><b>Anchor Makeup</b></u>  | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT  |                                 |
| <b>Perforations: (top):</b> FT<br><i>4 1/2-FH</i>                                      |                                 |
| <b>Change Over:</b> FT   |                                 |
| <b>Drill Pipe: (in anchor):</b> FT<br><i>ID-3 1/4</i>                                  |                                 |
| <b>Change Over:</b> FT   |                                 |
| <b>Perforations: (below):</b> 19 FT<br><i>4 1/2-FH</i>                                 |                                 |





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**09**  
 2023

**DST #1      Formation: LKC "E"      Test Interval: 3855 - 3875'      Total Depth: 3875'**  
 Time On: 17:56 01/09      Time Off: 02:12 01/10  
 Time On Bottom: 20:35 01/09      Time Off Bottom: 23:35 01/09

**Gas Volume Report**

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|







**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
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**DST #2**      **Formation: LKC "H&I"**      **Test Interval: 3933 - 3985'**      **Total Depth: 3985'**  
 Time On: 12:30 01/10      Time Off: 19:00 01/10  
 Time On Bottom: 14:33 01/10      Time Off Bottom: 16:33 01/10

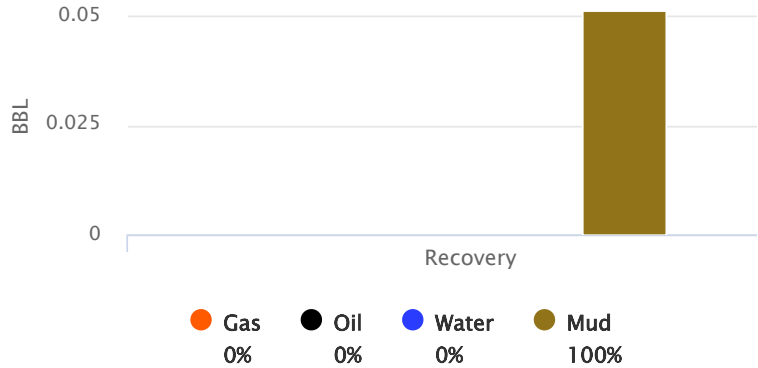
Recovered

| Foot | BBLs   | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|--------|----------------------|-------|-------|---------|-------|
| 5    | 0.0513 | M                    | 0     | 0     | 0       | 100   |

Total Recovered: 5 ft  
 Total Barrels Recovered: 0.0513

Reversed Out  
 NO

**Recovery at a glance**



|   |            |            |
|---|------------|------------|
| Initial Hydrostatic Pressure                | 1920       | PSI        |
| Initial Flow                                | 36 to 64   | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>64</b>  | <b>PSI</b> |
| Final Flow Pressure                         | 90 to 90   | PSI        |
| <b>Final Closed in Pressure</b>             | <b>875</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 1916       | PSI        |
| Temperature                                 | 112        | °F         |
| Pressure Change Initial Close / Final Close | 0.0        | %          |

GIP cubic foot volume: 0









**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
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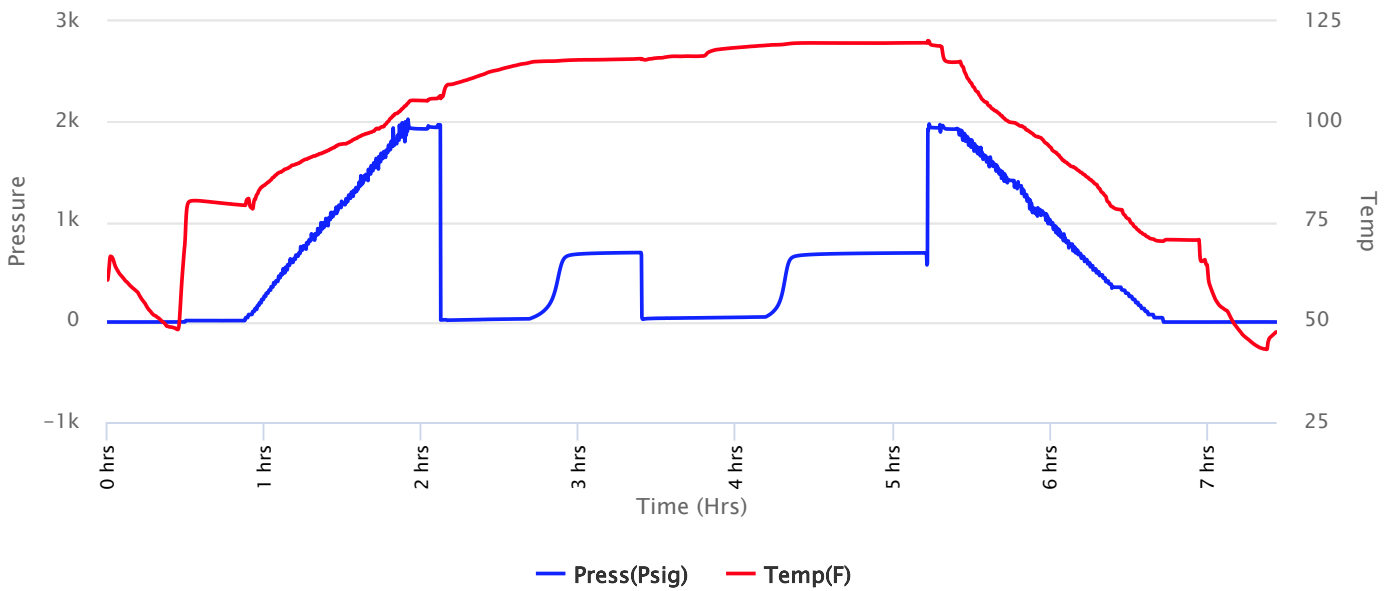
**DST #3    Formation: LKC "J"    Test Interval: 3997 - 4017'    Total Depth: 4017'**

Time On: 03:50 01/11    Time Off: 11:04 01/11  
 Time On Bottom: 05:54 01/11    Time Off Bottom: 08:54 01/11

Electronic Volume Estimate:  
 619'

| <u>1st Open</u>                  | <u>1st Close</u>              | <u>2nd Open</u>                  | <u>2nd Close</u>              |
|----------------------------------|-------------------------------|----------------------------------|-------------------------------|
| Minutes: 30                      | Minutes: 10                   | Minutes: 45                      | Minutes: 10                   |
| Current Reading: 23.9" at 30 min | Current Reading: 0" at 10 min | Current Reading: 35.9" at 45 min | Current Reading: 0" at 10 min |
| Max Reading: 23.9"               | Max Reading: 0"               | Max Reading: 35.9"               | Max Reading: 0"               |

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
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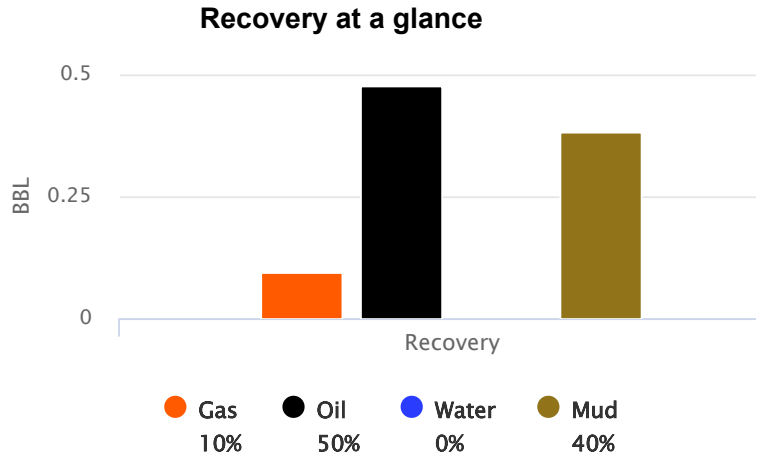
**DST #3      Formation: LKC "J"      Test Interval: 3997 - 4017'      Total Depth: 4017'**  
 Time On: 03:50 01/11      Time Off: 11:04 01/11  
 Time On Bottom: 05:54 01/11      Time Off Bottom: 08:54 01/11

| Recovered |         | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|-----------|---------|----------------------|-------|-------|---------|-------|
| Foot      | BBLs    |                      |       |       |         |       |
| 31        | 0.31806 | SLGCO                | 10    | 90    | 0       | 0     |
| 62        | 0.63612 | SLGCHOCM             | 10    | 30    | 0       | 60    |

Total Recovered: 93 ft  
 Total Barrels Recovered: 0.95418

Reversed Out  
 NO

|   |            |            |
|---|------------|------------|
| Initial Hydrostatic Pressure                | 1968       | PSI        |
| Initial Flow                                | 21 to 21   | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>693</b> | <b>PSI</b> |
| Final Flow Pressure                         | 36 to 50   | PSI        |
| <b>Final Closed in Pressure</b>             | <b>689</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 1940       | PSI        |
| Temperature                                 | 120        | °F         |
| Pressure Change Initial Close / Final Close | 0.6        | %          |



GIP cubic foot volume: 0.53572



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery &  
pressures

**DATE**

January  
**11**  
2023

|               |                             |  |                           |
|---------------|-----------------------------|--|---------------------------|
| <b>DST #3</b> | <b>Formation: LKC "J"</b>   | <b>Test Interval: 3997 -<br/>4017'</b> | <b>Total Depth: 4017'</b> |
|               | Time On: 03:50 01/11        | Time Off: 11:04 01/11                  |                           |
|               | Time On Bottom: 05:54 01/11 | Time Off Bottom: 08:54 01/11           |                           |

**BUCKET MEASUREMENT:**

1st Open: Wsb built to bob in 16 minutes

1st Close: No blow back

2nd Open: Strong blow built to bob in 12 minutes

2nd Close: No blow back

**REMARKS:**

682' GIP

Tool Sample: 10% Gas 30% Oil 0% Water 60% Mud

Gravity: 42.3 @ 60 °F



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
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 Field Name: Whitney SW  
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**DST #3      Formation: LKC "J"      Test Interval: 3997 - 4017'      Total Depth: 4017'**  
 Time On: 03:50 01/11      Time Off: 11:04 01/11  
 Time On Bottom: 05:54 01/11      Time Off Bottom: 08:54 01/11

**Down Hole Makeup**

|  |                                 |
|--|---------------------------------|
| <b>Heads Up:</b> 27.57 FT  | <b>Packer 1:</b> 3992 FT        |
| <b>Drill Pipe:</b> 3992 FT<br><i>ID-3 1/4</i>  | <b>Packer 2:</b> 3997 FT        |
| <b>Weight Pipe:</b> FT<br><i>ID-2 7/8</i>  | <b>Top Recorder:</b> 3981.42 FT |
| <b>Collars:</b> FT<br><i>ID-2 1/4</i>  | <b>Bottom Recorder:</b> 3999 FT |
| <b>Test Tool:</b> 33.57 FT<br><i>ID-3 1/2-FH</i><br><i>Jars</i><br><i>Safety Joint</i> | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 20  | <b>Surface Choke:</b> 1"        |
| <u><b>Anchor Makeup</b></u>  | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT  |                                 |
| <b>Perforations: (top):</b> FT<br><i>4 1/2-FH</i>                                      |                                 |
| <b>Change Over:</b> FT   |                                 |
| <b>Drill Pipe: (in anchor):</b> FT<br><i>ID-3 1/4</i>                                  |                                 |
| <b>Change Over:</b> FT   |                                 |
| <b>Perforations: (below):</b> 19 FT<br><i>4 1/2-FH</i>                                 |                                 |



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

**DATE**

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**DST #3      Formation: LKC "J"      Test Interval: 3997 -      Total Depth: 4017'**  
**4017'**

Time On: 03:50 01/11

Time Off: 11:04 01/11

Time On Bottom: 05:54 01/11

Time Off Bottom: 08:54 01/11

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.1

**Viscosity:** 50

**Filtrate:** 8.8

**Chlorides:** 3000 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

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**DST #3      Formation: LKC "J"      Test Interval: 3997 - 4017'      Total Depth: 4017'**  
Time On: 03:50 01/11      Time Off: 11:04 01/11  
Time On Bottom: 05:54 01/11      Time Off Bottom: 08:54 01/11

**Gas Volume Report**

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|







**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Test Complete

**DATE**  
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**DST #4**      **Formation: L/KC "K"**      **Test Interval: 4028 - 4054'**      **Total Depth: 4054'**  
 Time On: 19:59 01/11      Time Off: 03:46 01/12  
 Time On Bottom: 22:37 01/11      Time Off Bottom: 01:37 01/12

Recovered

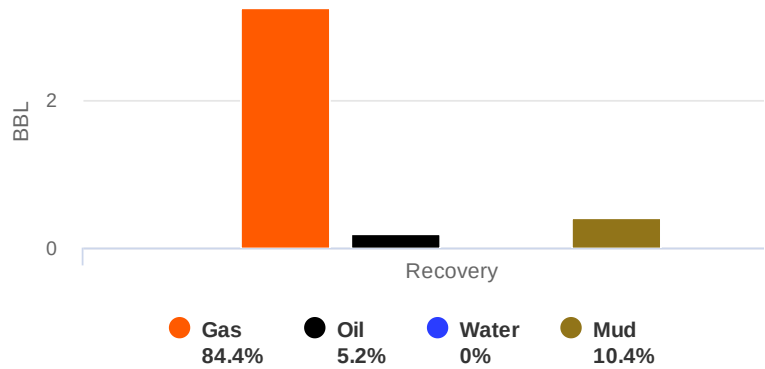
| Foot | BBLS   | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|------|--------|----------------------|-------|-------|---------|-------|
| 310  | 3.1806 | G                    | 100   | 0     | 0       | 0     |
| 65   | 0.6669 | SLGCHOCM             | 10    | 30    | 0       | 60    |

Total Recovered: 375 ft  
 Total Barrels Recovered: 3.8475

**Reversed Out**  
 NO

|   |            |            |
|---|------------|------------|
| Initial Hydrostatic Pressure                | 1962       | PSI        |
| Initial Flow                                | 22 to 29   | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>714</b> | <b>PSI</b> |
| Final Flow Pressure                         | 32 to 46   | PSI        |
| <b>Final Closed in Pressure</b>             | <b>697</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 1956       | PSI        |
| Temperature                                 | 117        | °F         |
| Pressure Change Initial Close / Final Close | 2.4        | %          |

**Recovery at a glance**



GIP cubic foot volume: 18.23191



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**  
Test Complete

**DATE**  
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|               |                                |  |                           |
|---------------|--------------------------------|--|---------------------------|
| <b>DST #4</b> | <b>Formation: L/KC<br/>"K"</b> | <b>Test Interval: 4028 -<br/>4054'</b> | <b>Total Depth: 4054'</b> |
|               | Time On: 19:59 01/11           | Time Off: 03:46 01/12                  |                           |
|               | Time On Bottom: 22:37 01/11    | Time Off Bottom: 01:37 01/12           |                           |

**BUCKET MEASUREMENT:**

1st Open: Weak, surface blow building to 6.4 ins.

1st Close: No blow back.

2nd Open: Weak, surface blow building. BOB in 31 mins.

2nd Close: No blow back.







**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

**DATE**

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**DST #5**      **Formation: Marmaton/Altamont**      **Test Interval: 4173 - 4236'**      **Total Depth: 4236'**

Time On: 01:28 01/13      Time Off: 08:37 01/13  
 Time On Bottom: 04:12 01/13      Time Off Bottom: 06:12 01/13

Electronic Volume Estimate:

0'

1st Open  
 Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

1st Close  
 Minutes: 10

Current Reading:

0" at 10 min

Max Reading: 0"

2nd Open  
 Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

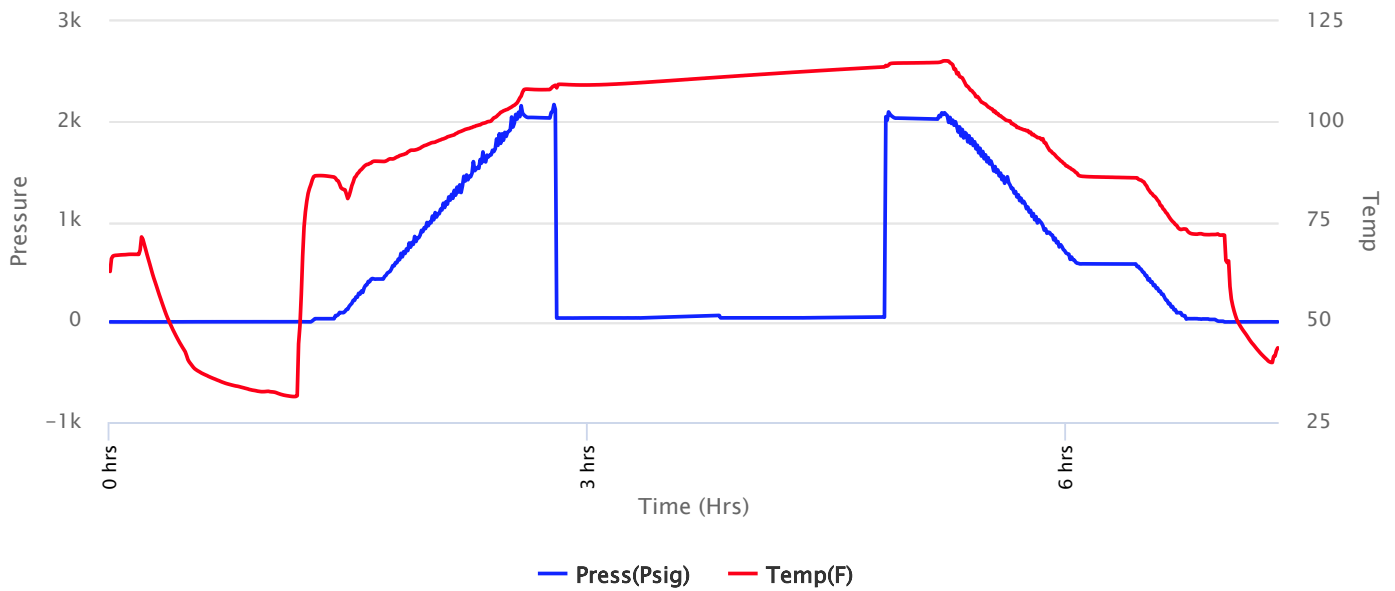
2nd Close  
 Minutes: 10

Current Reading:

0" at 10 min

Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

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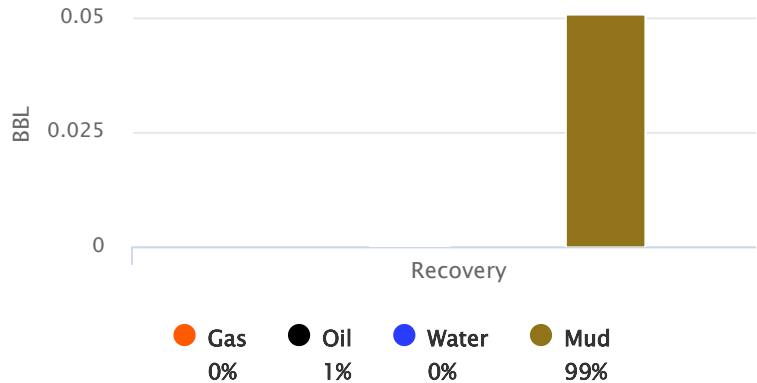
**DST #5**      **Formation: Marmaton/Altamont**      **Test Interval: 4173 - 4236'**      **Total Depth: 4236'**  
 Time On: 01:28 01/13      Time Off: 08:37 01/13  
 Time On Bottom: 04:12 01/13      Time Off Bottom: 06:12 01/13

| Recovered |        | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|-----------|--------|----------------------|-------|-------|---------|-------|
| Foot      | BBLs   |                      |       |       |         |       |
| 5         | 0.0513 | SLOCM                | 0     | 1     | 0       | 99    |

Total Recovered: 5 ft  
 Total Barrels Recovered: 0.0513

**Reversed Out**  
 NO

**Recovery at a glance**



|   |           |            |
|---|-----------|------------|
| Initial Hydrostatic Pressure                | 2036      | PSI        |
| Initial Flow                                | 39 to 40  | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>64</b> | <b>PSI</b> |
| Final Flow Pressure                         | 41 to 41  | PSI        |
| <b>Final Closed in Pressure</b>             | <b>49</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 2035      | PSI        |
| Temperature                                 | 115       | °F         |
| Pressure Change Initial Close / Final Close | 23.4      | %          |

GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

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|               |   |                                    |                           |
|---------------|---|------------------------------------|---------------------------|
| <b>DST #5</b> | <b>Formation:</b><br><b>Marmaton/Altamont</b> | <b>Test Interval: 4173 - 4236'</b> | <b>Total Depth: 4236'</b> |
|               | Time On: 01:28 01/13                          | Time Off: 08:37 01/13              |                           |
|               | Time On Bottom: 04:12 01/13                   | Time Off Bottom: 06:12 01/13       |                           |

**BUCKET MEASUREMENT:**

1st Open: Wsb died in 5 minutes

1st Close: No blow back

2nd Open: Wsb died 1 minute

2nd Close: No blow back





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

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**DST #5**      **Formation: Marmaton/Altamont**      **Test Interval: 4173 - 4236'**      **Total Depth: 4236'**  
Time On: 01:28 01/13      Time Off: 08:37 01/13  
Time On Bottom: 04:12 01/13      Time Off Bottom: 06:12 01/13

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.2

**Viscosity:** 41

**Filtrate:** 10.4

**Chlorides:** 3600 ppm







**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

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**DST #6      Formation: Fort Scott      Test Interval: 4262 - 4320'      Total Depth: 4320'**

Time On: 18:40 01/13      Time Off: 01:51 01/14  
 Time On Bottom: 21:33 01/13      Time Off Bottom: 23:33 01/13

Electronic Volume Estimate:

0'

1st Open  
 Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

1st Close  
 Minutes: 10

Current Reading:

0" at 10 min

Max Reading: 0"

2nd Open  
 Minutes: 30

Current Reading:

0" at 30 min

Max Reading: 0"

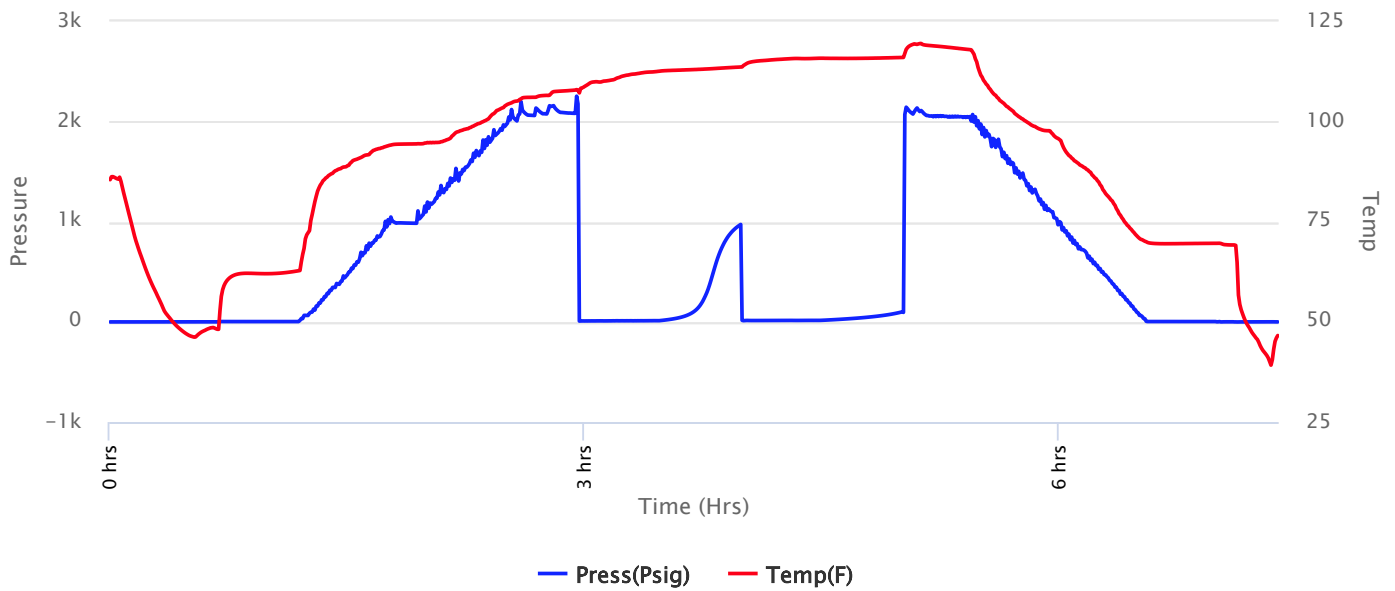
2nd Close  
 Minutes: 10

Current Reading:

0" at 10 min

Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
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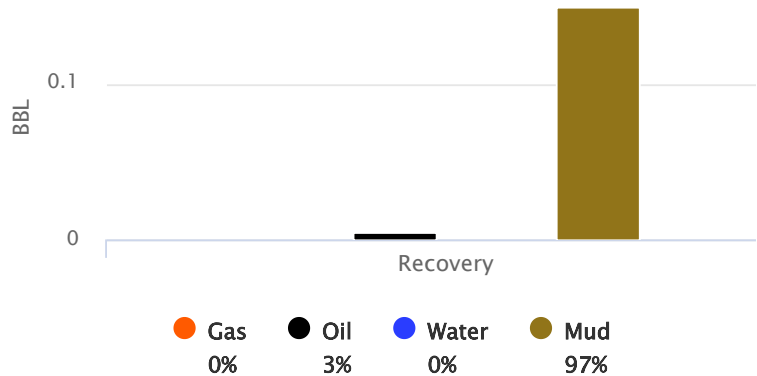
**DST #6**      **Formation: Fort Scott**      **Test Interval: 4262 - 4320'**      **Total Depth: 4320'**  
 Time On: 18:40 01/13      Time Off: 01:51 01/14  
 Time On Bottom: 21:33 01/13      Time Off Bottom: 23:33 01/13

| Recovered |        | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|-----------|--------|----------------------|-------|-------|---------|-------|
| Foot      | BBLs   |                      |       |       |         |       |
| 15        | 0.1539 | SLOCM                | 0     | 3     | 0       | 97    |

Total Recovered: 15 ft  
 Total Barrels Recovered: 0.1539

Reversed Out  
 NO

**Recovery at a glance**



|   |            |            |
|---|------------|------------|
| Initial Hydrostatic Pressure                | 2082       | PSI        |
| Initial Flow                                | 10 to 20   | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>933</b> | <b>PSI</b> |
| Final Flow Pressure                         | 14 to 18   | PSI        |
| <b>Final Closed in Pressure</b>             | <b>78</b>  | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 2128       | PSI        |
| Temperature                                 | 116        | °F         |
| Pressure Change Initial Close / Final Close | 91.7       | %          |

GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

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|               |                              |                                    |                           |
|---------------|------------------------------|------------------------------------|---------------------------|
| <b>DST #6</b> | <b>Formation: Fort Scott</b> | <b>Test Interval: 4262 - 4320'</b> | <b>Total Depth: 4320'</b> |
|               | Time On: 18:40 01/13         | Time Off: 01:51 01/14              |                           |
|               | Time On Bottom: 21:33 01/13  | Time Off Bottom: 23:33 01/13       |                           |

**BUCKET MEASUREMENT:**

1st Open: Wsb died in 5 minutes

1st Close: No blow back

2nd Open: Wsb died in 4 minutes

2nd Close: No blow back



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
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**DST #6**      **Formation: Fort Scott**      **Test Interval: 4262 - 4320'**      **Total Depth: 4320'**  
 Time On: 18:40 01/13      Time Off: 01:51 01/14  
 Time On Bottom: 21:33 01/13      Time Off Bottom: 23:33 01/13

**Down Hole Makeup**

|  |                                 |
|--|---------------------------------|
| <b>Heads Up:</b> 13.57 FT  | <b>Packer 1:</b> 4257 FT        |
| <b>Drill Pipe:</b> 4243 FT<br><i>ID-3 1/4</i>  | <b>Packer 2:</b> 4262 FT        |
| <b>Weight Pipe:</b> FT<br><i>ID-2 7/8</i>  | <b>Top Recorder:</b> 4246.42 FT |
| <b>Collars:</b> FT<br><i>ID-2 1/4</i>  | <b>Bottom Recorder:</b> 4296 FT |
| <b>Test Tool:</b> 33.57 FT<br><i>ID-3 1/2-FH</i><br><i>Jars</i><br><i>Safety Joint</i> | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 58  | <b>Surface Choke:</b> 1"        |
| <u><b>Anchor Makeup</b></u>  | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT  |                                 |
| <b>Perforations: (top):</b> FT<br><i>4 1/2-FH</i>                                      |                                 |
| <b>Change Over:</b> .5 FT  |                                 |
| <b>Drill Pipe: (in anchor):</b> 31 FT<br><i>ID-3 1/4</i>                               |                                 |
| <b>Change Over:</b> .5 FT  |                                 |
| <b>Perforations: (below):</b> 25 FT<br><i>4 1/2-FH</i>                                 |                                 |



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

**DATE**

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**DST #6**      **Formation: Fort Scott**      **Test Interval: 4262 - 4320'**      **Total Depth: 4320'**  
Time On: 18:40 01/13      Time Off: 01:51 01/14  
Time On Bottom: 21:33 01/13      Time Off Bottom: 23:33 01/13

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.4

**Viscosity:** 43

**Filtrate:** 8.8

**Chlorides:** 3500 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
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**DST #6**      **Formation: Fort Scott**      **Test Interval: 4262 - 4320'**      **Total Depth: 4320'**  
 Time On: 18:40 01/13      Time Off: 01:51 01/14  
 Time On Bottom: 21:33 01/13      Time Off Bottom: 23:33 01/13

**Gas Volume Report**

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Tripping out of hole with  
 test tool

**DATE**  
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**DST #8      Formation: Miss      Test Interval: 4397 - 4410'      Total Depth: 4410'**

Time On: 09:35 01/15      Time Off: 00:00 01/01  
 Time On Bottom: 12:03 01/15      Time Off Bottom: 15:03 01/15

Electronic Volume Estimate:  
 129'

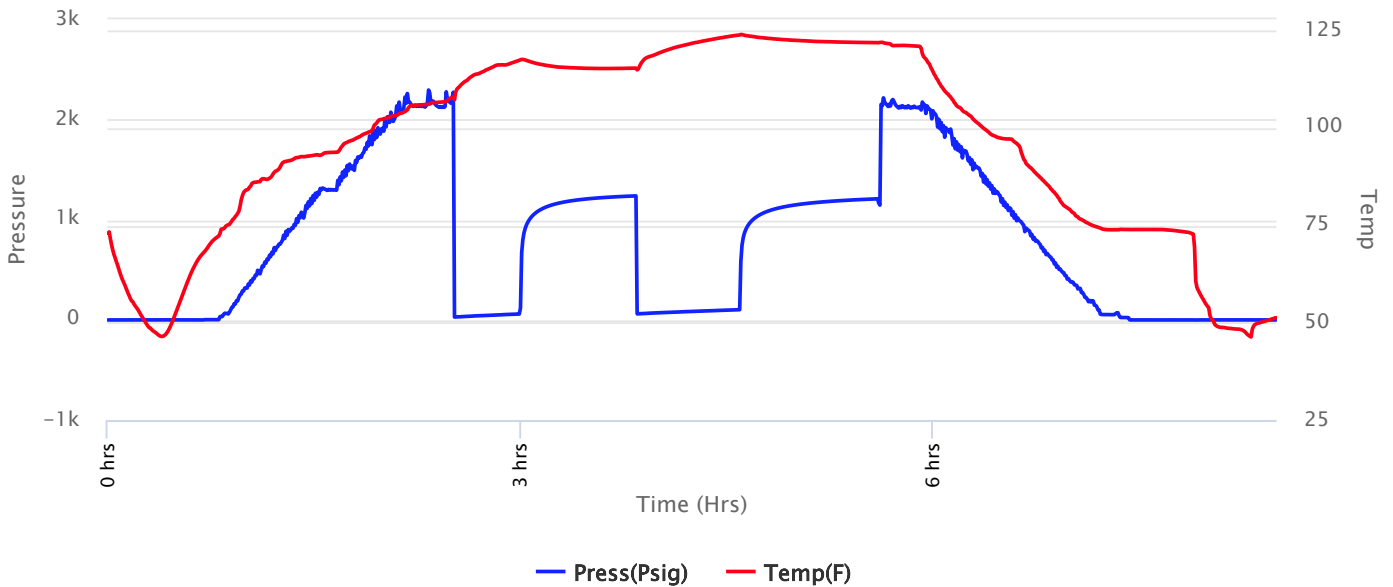
1st Open  
 Minutes: 30  
 Current Reading:  
 5" at 30 min  
 Max Reading: 5"

1st Close  
 Minutes: 10  
 Current Reading:  
 0" at 10 min  
 Max Reading: 0"

2nd Open  
 Minutes: 45  
 Current Reading:  
 6" at 45 min  
 Max Reading: 6"

2nd Close  
 Minutes: 10  
 Current Reading:  
 0" at 10 min  
 Max Reading: 0"

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Tripping out of hole with test tool

**DATE**  
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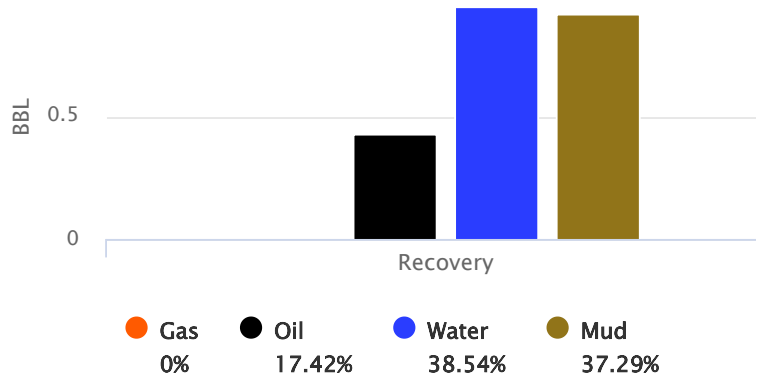
**DST #8**      **Formation: Miss**      **Test Interval: 4397 - 4410'**      **Total Depth: 4410'**  
 Time On: 09:35 01/15      Time Off: 00:00 01/01  
 Time On Bottom: 12:03 01/15      Time Off Bottom: 15:03 01/15

| Recovered |        |                      |       |       |         |       |
|-----------|--------|----------------------|-------|-------|---------|-------|
| Foot      | BBLs   | Description of Fluid | Gas % | Oil % | Water % | Mud % |
| 35        | 0.3591 | O                    | 0     | 100   | 0       | 0     |
| 25        | 0.2565 | SLWCOCM              | 0     | 20    | 10      | 70    |
| 180       | 1.8468 | SLOCHMCW             | 0     | 1     | 50      | 40    |

Total Recovered: 240 ft  
 Total Barrels Recovered: 2.4624

Reversed Out  
 NO

**Recovery at a glance**



|   |             |            |
|---|-------------|------------|
| Initial Hydrostatic Pressure                | 2174        | PSI        |
| Initial Flow                                | 31 to 31    | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>1237</b> | <b>PSI</b> |
| Final Flow Pressure                         | 64 to 102   | PSI        |
| <b>Final Closed in Pressure</b>             | <b>1208</b> | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 2173        | PSI        |
| Temperature                                 | 122         | °F         |
| Pressure Change Initial Close / Final Close | 2.3         | %          |

GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Tripping out of hole with  
test tool

**DATE**

January  
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2023

|               |                             |                              |                           |
|---------------|-----------------------------|------------------------------|---------------------------|
| <b>DST #8</b> | <b>Formation: Miss</b>      | <b>Test Interval: 4397 -</b> | <b>Total Depth: 4410'</b> |
|               |                             | <b>4410'</b>                 |                           |
|               | Time On: 09:35 01/15        | Time Off: 00:00 01/01        |                           |
|               | Time On Bottom: 12:03 01/15 | Time Off Bottom: 15:03 01/15 |                           |

**BUCKET MEASUREMENT:**

1st Open: Wsb built to 6"  
1st Close: No blow back  
2nd Open: Wsb built to 5"  
2nd Close: No blow back

**REMARKS:**

Tool Sample: 5% Gas 25% Oil 10% Water 60% Mud

Gravity: 43.6 @ 60 °F



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Tripping out of hole with  
 test tool

**DATE**  
 January  
**15**  
 2023

**DST #8      Formation: Miss      Test Interval: 4397 - 4410'      Total Depth: 4410'**  
 Time On: 09:35 01/15      Time Off: 00:00 01/01  
 Time On Bottom: 12:03 01/15      Time Off Bottom: 15:03 01/15

**Down Hole Makeup**

|  |                                 |
|--|---------------------------------|
| <b>Heads Up:</b> 3.57 FT   | <b>Packer 1:</b> 4392 FT        |
| <b>Drill Pipe:</b> 4368 FT<br><i>ID-3 1/4</i>  | <b>Packer 2:</b> 4397 FT        |
| <b>Weight Pipe:</b> FT<br><i>ID-2 7/8</i>  | <b>Top Recorder:</b> 4381.42 FT |
| <b>Collars:</b> FT<br><i>ID-2 1/4</i>  | <b>Bottom Recorder:</b> 4399 FT |
| <b>Test Tool:</b> 33.57 FT<br><i>ID-3 1/2-FH</i><br><i>Jars</i><br><i>Safety Joint</i> | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 13  | <b>Surface Choke:</b> 1"        |
| <u><b>Anchor Makeup</b></u>  | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT  |                                 |
| <b>Perforations: (top):</b> FT<br><i>4 1/2-FH</i>                                      |                                 |
| <b>Change Over:</b> FT   |                                 |
| <b>Drill Pipe: (in anchor):</b> FT<br><i>ID-3 1/4</i>                                  |                                 |
| <b>Change Over:</b> FT   |                                 |
| <b>Perforations: (below):</b> 12 FT<br><i>4 1/2-FH</i>                                 |                                 |



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Tripping out of hole with  
test tool

**DATE**

January  
**15**  
2023

**DST #8**      **Formation: Miss**      **Test Interval: 4397 - 4410'**      **Total Depth: 4410'**

Time On: 09:35 01/15      Time Off: 00:00 01/01  
Time On Bottom: 12:03 01/15      Time Off Bottom: 15:03 01/15

**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.4      **Viscosity:** 49      **Filtrate:** 13.6      **Chlorides:** 3600 ppm



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Tripping out of hole with  
 test tool

**DATE**  
 January  
**15**  
 2023

**DST #8      Formation: Miss      Test Interval: 4397 - 4410'      Total Depth: 4410'**  
 Time On: 09:35 01/15      Time Off: 00:00 01/01  
 Time On Bottom: 12:03 01/15      Time Off Bottom: 15:03 01/15

**Gas Volume Report**

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

**DATE**

January  
**14**  
 2023

**DST #7      Formation: Miss      Test Interval: 4330 - 4400'      Total Depth: 4400'**

Time On: 13:30 01/14      Time Off: 01:41 01/15  
 Time On Bottom: 20:42 01/14      Time Off Bottom: 23:42 01/14

Electronic Volume Estimate:

41'

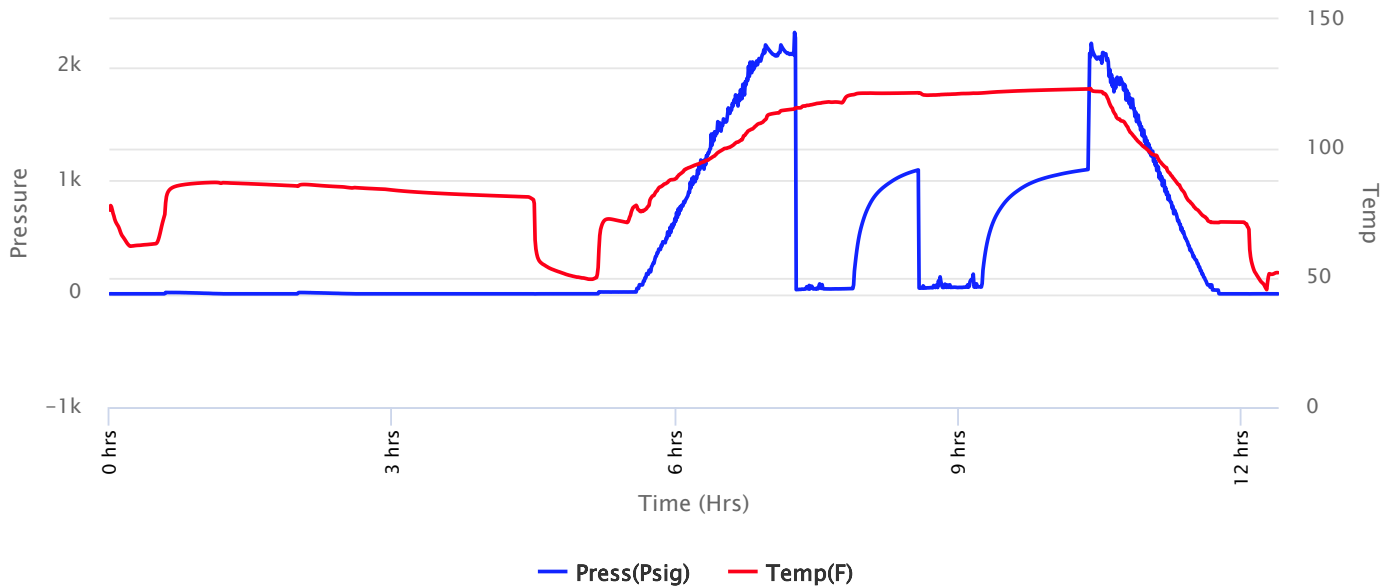
1st Open  
 Minutes: 30  
 Current Reading:  
 2.3" at 30 min  
 Max Reading: 2.3"

1st Close  
 Minutes: 10  
 Current Reading:  
 0" at 10 min  
 Max Reading: 0"

2nd Open  
 Minutes: 45  
 Current Reading:  
 1.2" at 45 min  
 Max Reading: 1.2"

2nd Close  
 N/A

Inside Recorder





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**14**  
 2023

**DST #7**      **Formation: Miss**      **Test Interval: 4330 - 4400'**      **Total Depth: 4400'**  
 Time On: 13:30 01/14      Time Off: 01:41 01/15  
 Time On Bottom: 20:42 01/14      Time Off Bottom: 23:42 01/14

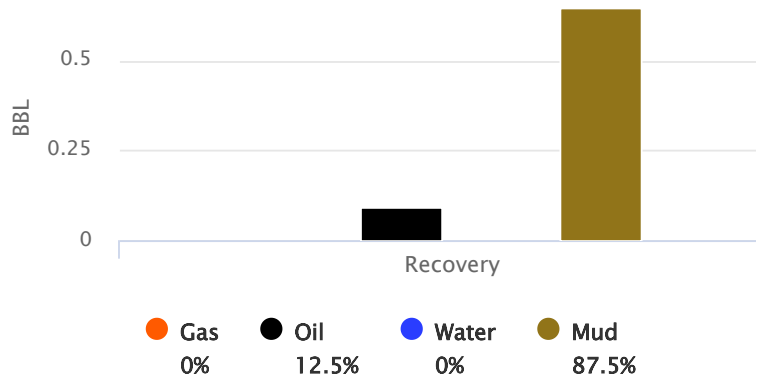
| Recovered |         | Description of Fluid | Gas % | Oil % | Water % | Mud % |
|-----------|---------|----------------------|-------|-------|---------|-------|
| Foot      | BBLs    |                      |       |       |         |       |
| 2         | 0.02052 | O                    | 0     | 100   | 0       | 0     |
| 70        | 0.7182  | SLOCM                | 0     | 10    | 0       | 90    |

Total Recovered: 72 ft  
 Total Barrels Recovered: 0.73872

Reversed Out  
 NO

|   |             |            |
|---|-------------|------------|
| Initial Hydrostatic Pressure                | 2258        | PSI        |
| Initial Flow                                | 42 to 46    | PSI        |
| <b>Initial Closed in Pressure</b>           | <b>1091</b> | <b>PSI</b> |
| Final Flow Pressure                         | 52 to 90    | PSI        |
| <b>Final Closed in Pressure</b>             | <b>90</b>   | <b>PSI</b> |
| Final Hydrostatic Pressure                  | 2157        | PSI        |
| Temperature                                 | 124         | °F         |
| Pressure Change Initial Close / Final Close | 91.8        | %          |

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
County: GOVE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2527 EGL  
Field Name: Whitney SW  
Pool: Infield  
Job Number: 625  
API #: 15-063-22423

**Operation:**

Uploading recovery & pressures

**DATE**

January  
**14**  
2023

|               |                             |                                    |                           |
|---------------|-----------------------------|------------------------------------|---------------------------|
| <b>DST #7</b> | <b>Formation: Miss</b>      | <b>Test Interval: 4330 - 4400'</b> | <b>Total Depth: 4400'</b> |
|               | Time On: 13:30 01/14        | Time Off: 01:41 01/15              |                           |
|               | Time On Bottom: 20:42 01/14 | Time Off Bottom: 23:42 01/14       |                           |

**BUCKET MEASUREMENT:**

1st Open: Wsb built to 2"  
1st Close: No blow back  
2nd Open: Wsb built to  
2nd Close: No blow back

**REMARKS:**

Broke hydraulic tool making up tool. Changed it out, and continued with test.

Tool Sample: 0% Gas 15% Oil 0% Water 85% Mud



**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2527 EGL  
 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**14**  
 2023

**DST #7      Formation: Miss      Test Interval: 4330 - 4400'      Total Depth: 4400'**  
 Time On: 13:30 01/14      Time Off: 01:41 01/15  
 Time On Bottom: 20:42 01/14      Time Off Bottom: 23:42 01/14

**Down Hole Makeup**

|  |                                 |
|--|---------------------------------|
| <b>Heads Up:</b> 8.57 FT   | <b>Packer 1:</b> 4325 FT        |
| <b>Drill Pipe:</b> 4306 FT<br><i>ID-3 1/4</i>  | <b>Packer 2:</b> 4330 FT        |
| <b>Weight Pipe:</b> FT<br><i>ID-2 7/8</i>  | <b>Top Recorder:</b> 4314.42 FT |
| <b>Collars:</b> FT<br><i>ID-2 1/4</i>  | <b>Bottom Recorder:</b> -2 FT   |
| <b>Test Tool:</b> 33.57 FT<br><i>ID-3 1/2-FH</i><br><i>Jars</i><br><i>Safety Joint</i> | <b>Well Bore Size:</b> 7 7/8    |
| <b>Total Anchor:</b> 70  | <b>Surface Choke:</b> 1"        |
| <b>Anchor Makeup</b>   | <b>Bottom Choke:</b> 5/8"       |
| <b>Packer Sub:</b> 1 FT  |                                 |
| <b>Perforations: (top):</b> 3 FT<br><i>4 1/2-FH</i>                                    |                                 |
| <b>Change Over:</b> .5 FT  |                                 |
| <b>Drill Pipe: (in anchor):</b> 62 FT<br><i>ID-3 1/4</i>                               |                                 |
| <b>Change Over:</b> .5 FT  |                                 |
| <b>Perforations: (below):</b> 3 FT<br><i>4 1/2-FH</i>                                  |                                 |





**Company: L. D. Drilling, Inc**  
**Lease: Middleton #35-1**

SEC: 35 TWN: 15S RNG: 27W  
 County: GOVE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
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 Field Name: Whitney SW  
 Pool: Infield  
 Job Number: 625  
 API #: 15-063-22423

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 January  
**14**  
 2023

**DST #7      Formation: Miss      Test Interval: 4330 - 4400'      Total Depth: 4400'**  
 Time On: 13:30 01/14      Time Off: 01:41 01/15  
 Time On Bottom: 20:42 01/14      Time Off Bottom: 23:42 01/14

**Gas Volume Report**

1st Open

2nd Open

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|

| Time | Orifice | PSI | MCF/D |
|------|---------|-----|-------|
|------|---------|-----|-------|



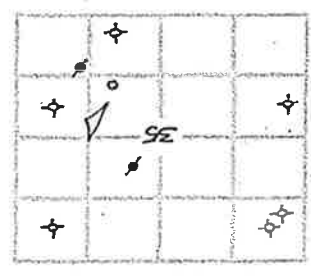
**KIM B. SHOEMAKER**  
 CONSULTING GEOLOGIST  
 316-884-8709 • WICHITA, KS  
 GEOLOGIST'S REPORT  
 DRILLING TRAC AND SAMPLE LOG

COMPANY: L. D. DRILLING, INC.  
 LEASE: # 35-1 MIDDLETON  
 FIELD: WHITNEY SW  
 LOCATION: 1966 FSL & 1848 FEL  
 SEC: 35 TWP: 15s R6E 27w  
 COUNTY: Gove  
 STATE: KANSAS

CONTRACTOR: L. D. DRILLING, INC.  
 DATE: 1-16-23  
 WELL NO: 4517  
 WELL TYPE: CHEMICAL  
 WELL DEPTH: 3453  
 WELL LOG: DUAL IND. DENS-N. MICRO, SONIC

STAINES SAND FROM 3500 TO 4517  
 GRITTED THE KEPT FROM 3300 TO 4517  
 SAMPLES EXAMINED FROM 3500 TO 4517  
 GEOLOGICAL SUPERVISION FROM 3600 TO 4517  
 GEOLOGIST ON WELL: Kim B. SHOEMAKER

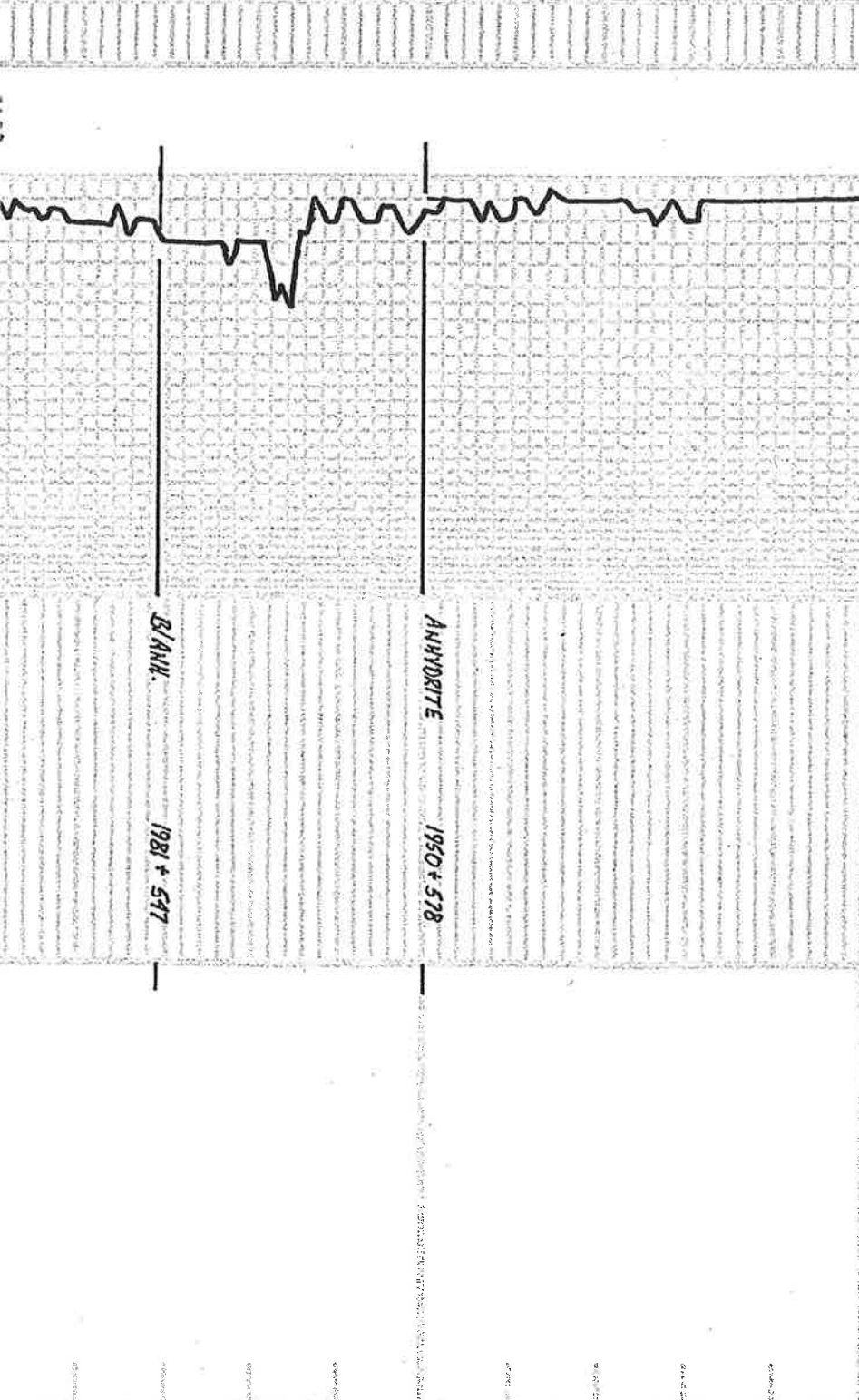
| FORMATION TOPS | LOGS      | WELLS     |
|----------------|-----------|-----------|
| ANHYDRITE      | 1946+582  | 1950+578  |
| S/ANA          | 1983+545  | 1981+517  |
| STYLER         | 3348-820  | 3348-820  |
| HEBNER         | 3740-1212 | 3740-1212 |
| LANSING        | 3778-1250 | 3780-1252 |
| STARK          | 4030-1502 | 4030-1502 |
| FORT SCOTT     | 4278-1750 | 4278-1750 |
| CHEROKEE       | 4305-1777 | 4306-1778 |
| MISSISSIPPI    | 4383-1855 | 4384-1856 |



- WELLS**
- 1-2 @ 590'
  - 1-3 @ 311'
  - 1-4 @ 803'
  - 1-5 @ 1370'
  - 1-6 @ 2176'
  - 1-7 @ 2620'
  - 1-8 @ 3323'
  - 1-9 @ 3788'
  - 1-10 @ 3945'
  - 1-11 @ 4004'
  - 1-12 @ 4054'
  - 1-13 @ 4120'
  - 1-14 @ 4357'
- WELLS**
- 1-15 @ 4410'
  - 1-16 @ 4517'
- API: 15-063-22423

**LEGEND**

|  |           |
|--|-----------|
|  | Anhydrite |
|  | Sand      |
|  | Shale     |
|  | Sandstone |
|  | Carb. ch. |
|  | Limestone |
|  | Chalk     |
|  | Dolomite  |



2000

3300

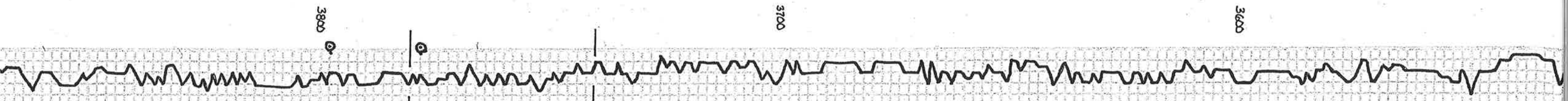
3400

3500

STOTLER

337B-820

Extremely faint, illegible text covering the lower half of the page, possibly bleed-through from the reverse side.



VIS: 49 WT: 88  
 WT: 80 CLK: 2000

**TORONTO**

V.L.O.C

LS wt. Lg. Foss. col.  
 Sh. Lg.  
 LS wt. sil. Foss.

Samples are labeled

LS. Lg. sil. Foss.

LS. Lg. sil. Foss.

Sh. Lg. sil.

LS. Lg. sil. Foss.

LS. wt. Lg. Foss.

LS. Lg. sil. Foss.

Sh. Lg.

LS. wt. Foss. sil. Galat.

LS. T. wt. Foss.

LS. T. wt. Foss. Galat.

LS. Lg. sil. Foss.

**HEBNER** 3790-1212  
 Sh. Blk. Calc.  
 LS. Blg. sil. Foss.

Sh. Blk. L.

LS. T. wt. sil. Foss. sil. Δ  
 Δ wt.

**LANSING** 3780-1252  
 LS. T. wt. sil. Foss. sil. Δ

Δ wt.

LS. T. Lg. DM.

Sh. Blg.

Sh. Blk.

LS. wt. sil. Foss. sil. Δ R. Lg.  
 T. Bl. sil. T. Foss. No. Floor. No. floor.

LS. Lg. sil. Foss.

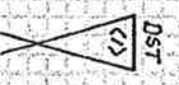
LS. T. wt. sil. Foss. sil. chly.

LS. wt. Lg. sil. Foss. sil. chly.

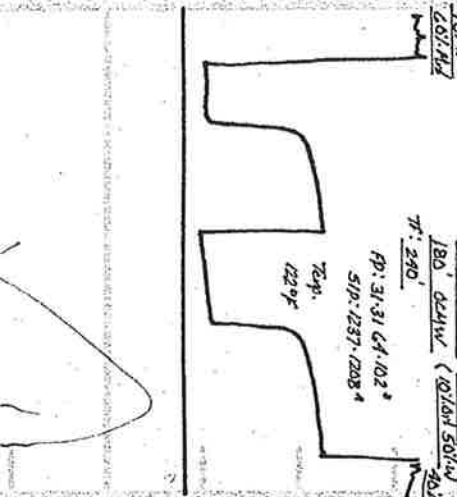
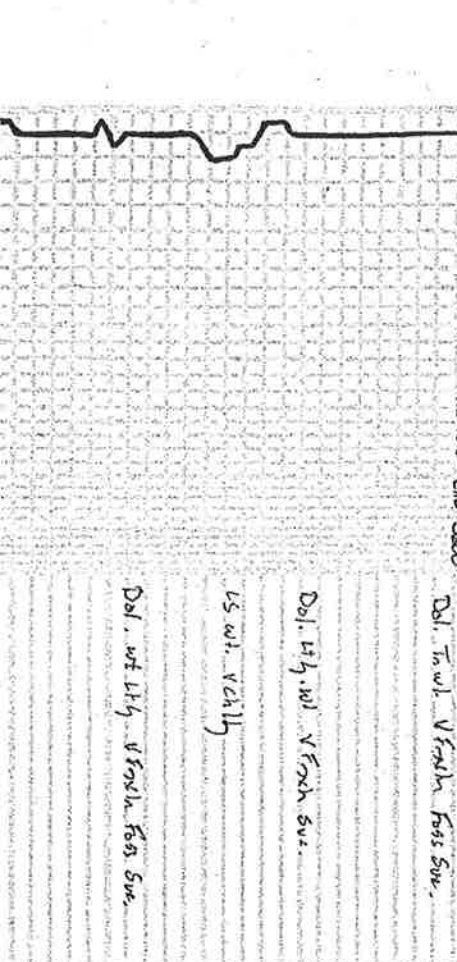
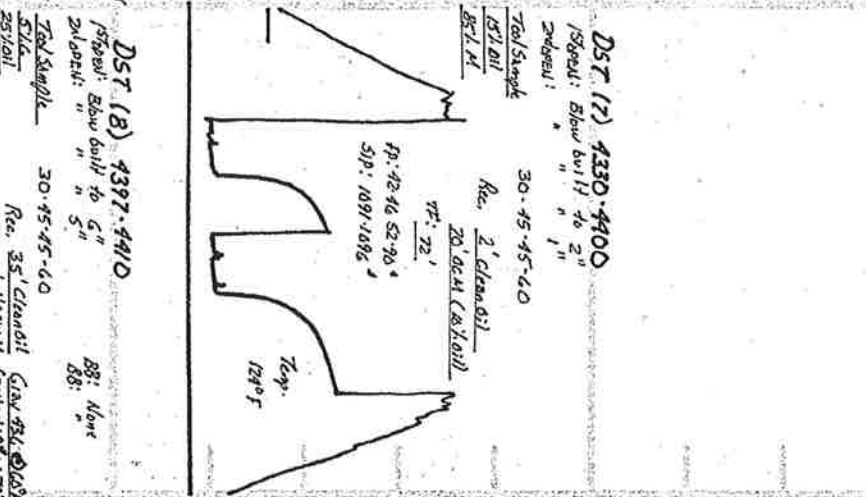
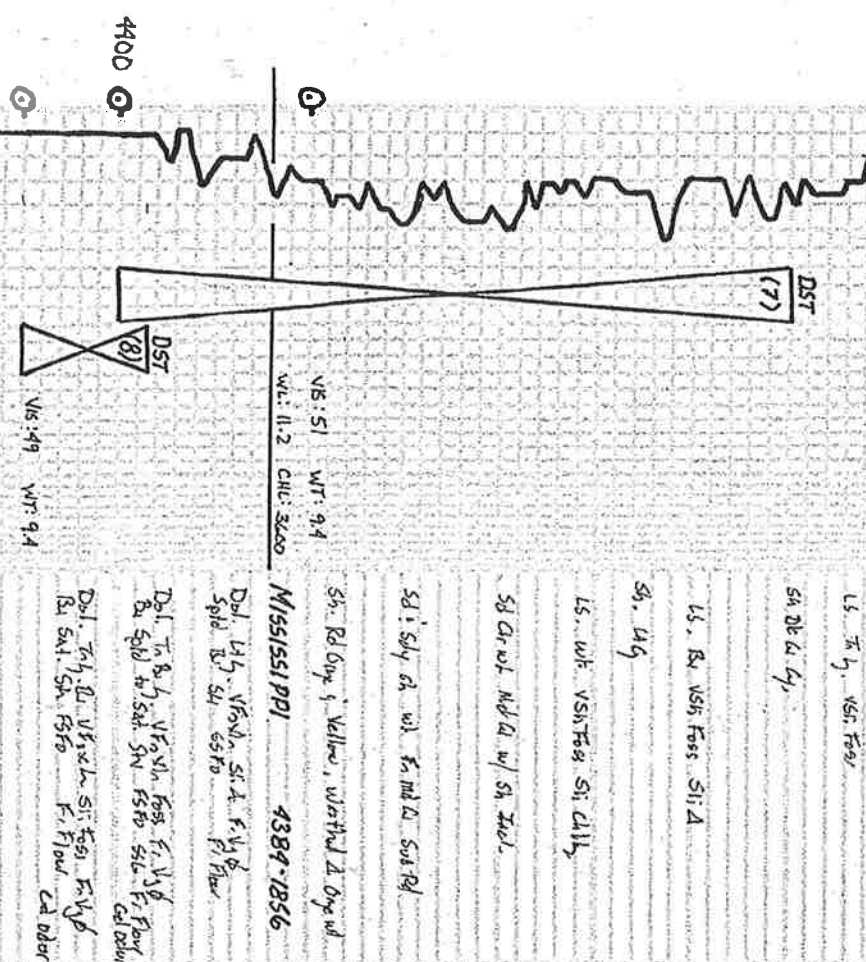
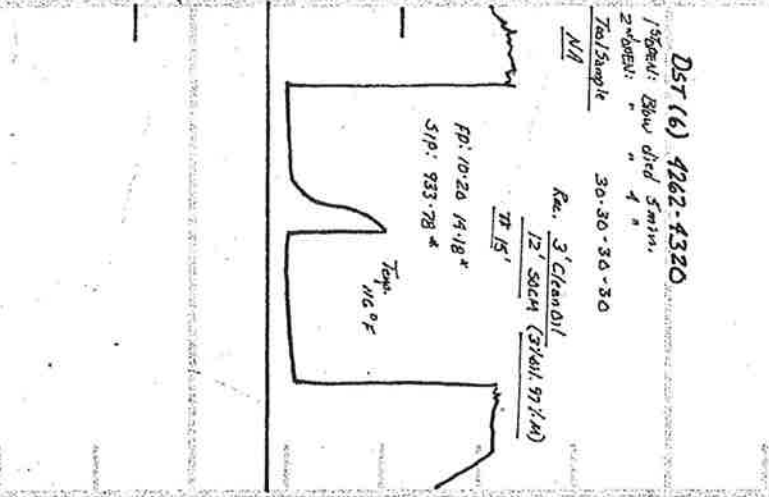
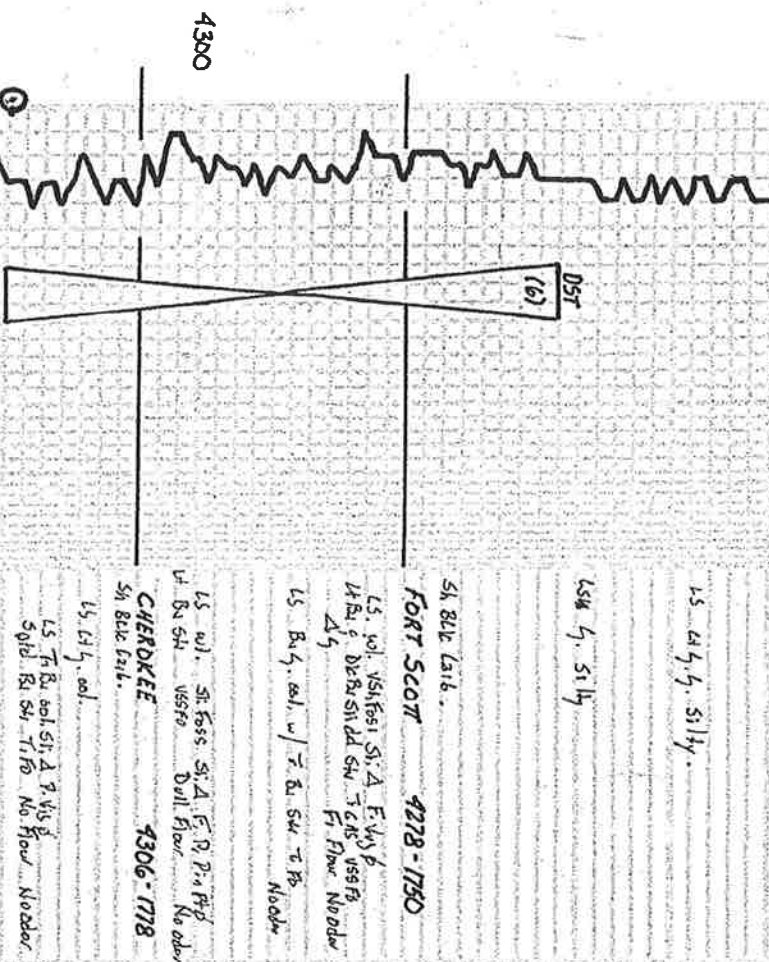
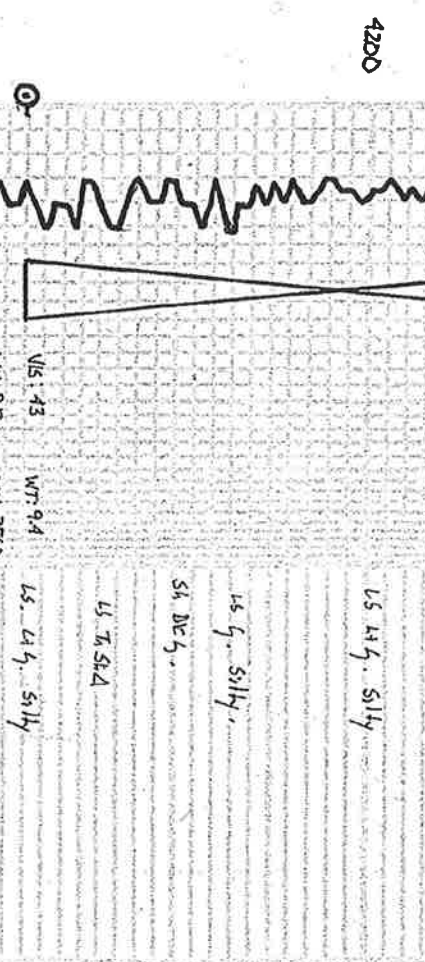
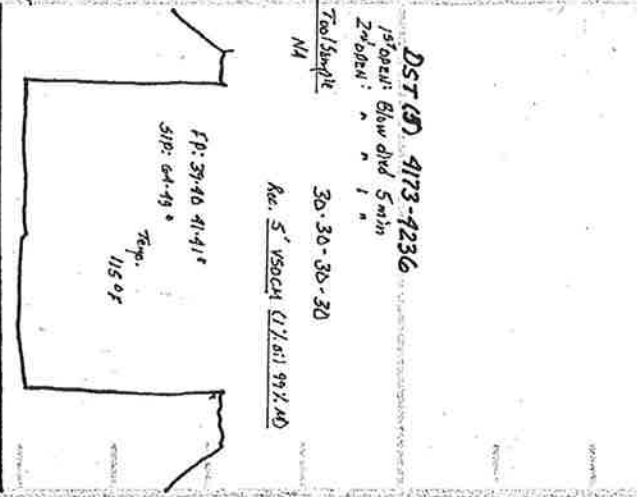
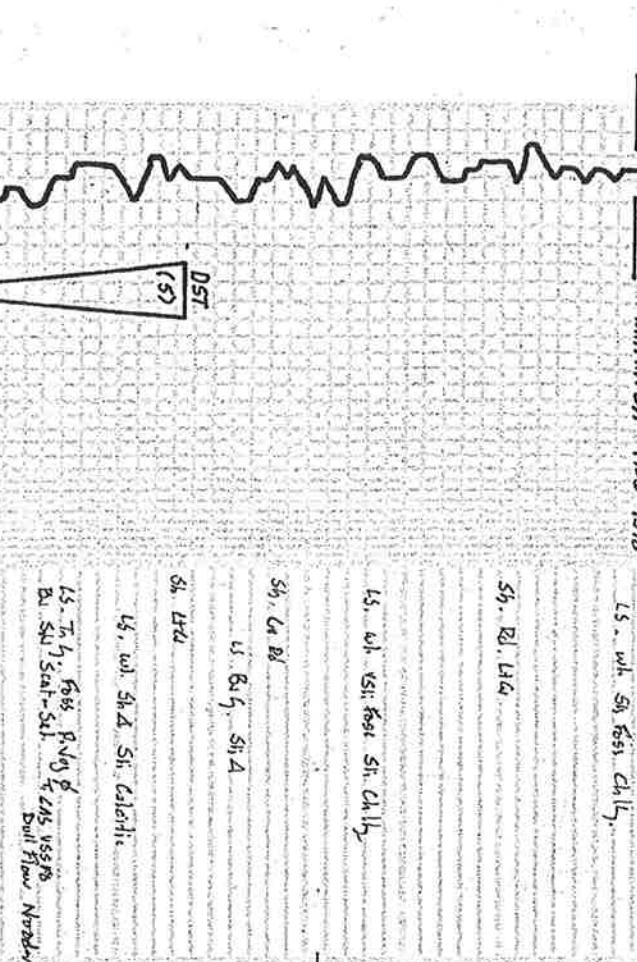
Sh. Blg.

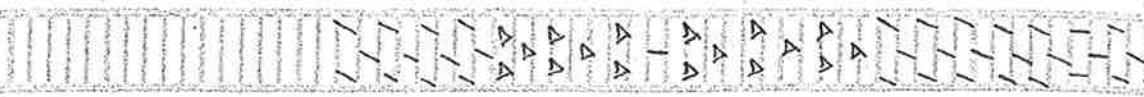
LS. T. wt. sil. Foss. sil. chly.  
 L. Bl. sil. sil. T. Lg. T. Foss. J. Coll. T. Foss.

**DST (1) 3855-3875**  
 1500psi. Slow built to 7 1/4"  
 2nd open: 2000psi. 23min.  
 Tool Sample 30.45-45-60  
 Rec. 93' Cleanoil  
 180' 1500psi (1700' 900' 50' 100')  
 88' 10" G.N. 23.5000'









4500



RTD 4517-1989

IS Wt. Vchly

Dol. Wt. Lty. Vchly. Foss. Sw.

Δ Wt. G. Foss.

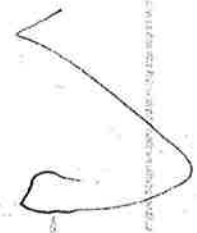
IS Wt. Chly

Δ G. Foss.

Dol. Wt. G. Foss.

Dol. Wt. G. Foss.

Δ Wt. G.





Remit To: Hurricane Services, Inc.  
 250 N. Water, Suite 200  
 Wichita, KS 67202  
 316-303-9515

Customer:  
 L D DRILLING, INC.  
 7 SW 26TH AVE  
 GREAT BEND, KS 67530

Invoice Date: 1/17/2023  
 Invoice #: 0366079  
 Lease Name: Middleton  
 Well #: 35-1 (New)  
 County: Gove, Ks  
 Job Number: WP3842  
 District: Oakley

| Date/Description             | HRS/QTY   | Rate      | Total    |
|------------------------------|-----------|-----------|----------|
| 2 Stage Longstring           | 0.000     | 0.000     | 0.00     |
| H-LD Cement Blend            | 150.000   | 50.000    | 7,500.00 |
| H-CON                        | 305.000   | 25.000    | 7,625.00 |
| Cement baskets 5 1/2"        | 2.000     | 300.000   | 600.00   |
| 5 1/2" Stop Ring             | 2.000     | 30.000    | 60.00    |
| 5 1/2" Turbolizers           | 11.000    | 125.000   | 1,375.00 |
| 5 1/2" Floatshoe-Flapper AFU | 1.000     | 375.000   | 375.00   |
| 5 1/2" 2 Stage DV Tool       | 1.000     | 5,000.000 | 5,000.00 |
| 5 1/2" LD Plug & Baffle      | 1.000     | 350.000   | 350.00   |
| Mud flush                    | 1,000.000 | 1.000     | 1,000.00 |
| KCL-CS701                    | 10.000    | 30.000    | 300.00   |
| Light Eq Mileage             | 75.000    | 2.000     | 150.00   |
| Heavy Eq Mileage             | 225.000   | 4.000     | 900.00   |
| Ton Mileage                  | 1,605.000 | 1.500     | 2,407.50 |
| Depth Charge 4001'-5000'     | 1.000     | 2,500.000 | 2,500.00 |
| Depth Charge 1001'-2000'     | 1.000     | 1,500.000 | 1,500.00 |
| Cement Blending & Mixing     | 455.000   | 1.400     | 637.00   |
| Cement plug container        | 1.000     | 250.000   | 250.00   |
| Cement Data Acquisition      | 1.000     | 250.000   | 250.00   |
| Service Supervisor           | 1.000     | 275.000   | 275.00   |

**Total** 33,054.50

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**





**CEMENT TREATMENT REPORT**

|                                  |                              |                                   |
|----------------------------------|------------------------------|-----------------------------------|
| <b>Customer:</b> LD Drilling     | <b>Well:</b> Middleton #35-1 | <b>Ticket:</b> WP 3842            |
| <b>City, State:</b> Pendennis KS | <b>County:</b> Gove KS       | <b>Date:</b> 1/17/2023            |
| <b>Field Rep:</b> Dalton Popp    | <b>S-T-R:</b> 35-15S-27W     | <b>Service:</b> 2 Stage Longsting |

| Downhole Information |            |
|----------------------|------------|
| Hole Size:           | 7 7/8 in   |
| Hole Depth:          | 4517 ft    |
| Casing Size:         | 5 1/2 in   |
| Casing Depth:        | 4515 ft    |
| Tubing / Liner:      | in         |
| Depth:               | ft         |
| Tool / Packer:       | DV Tool    |
| Tool Depth:          | 1955 ft    |
| Displacement:        | 109.1 bbls |

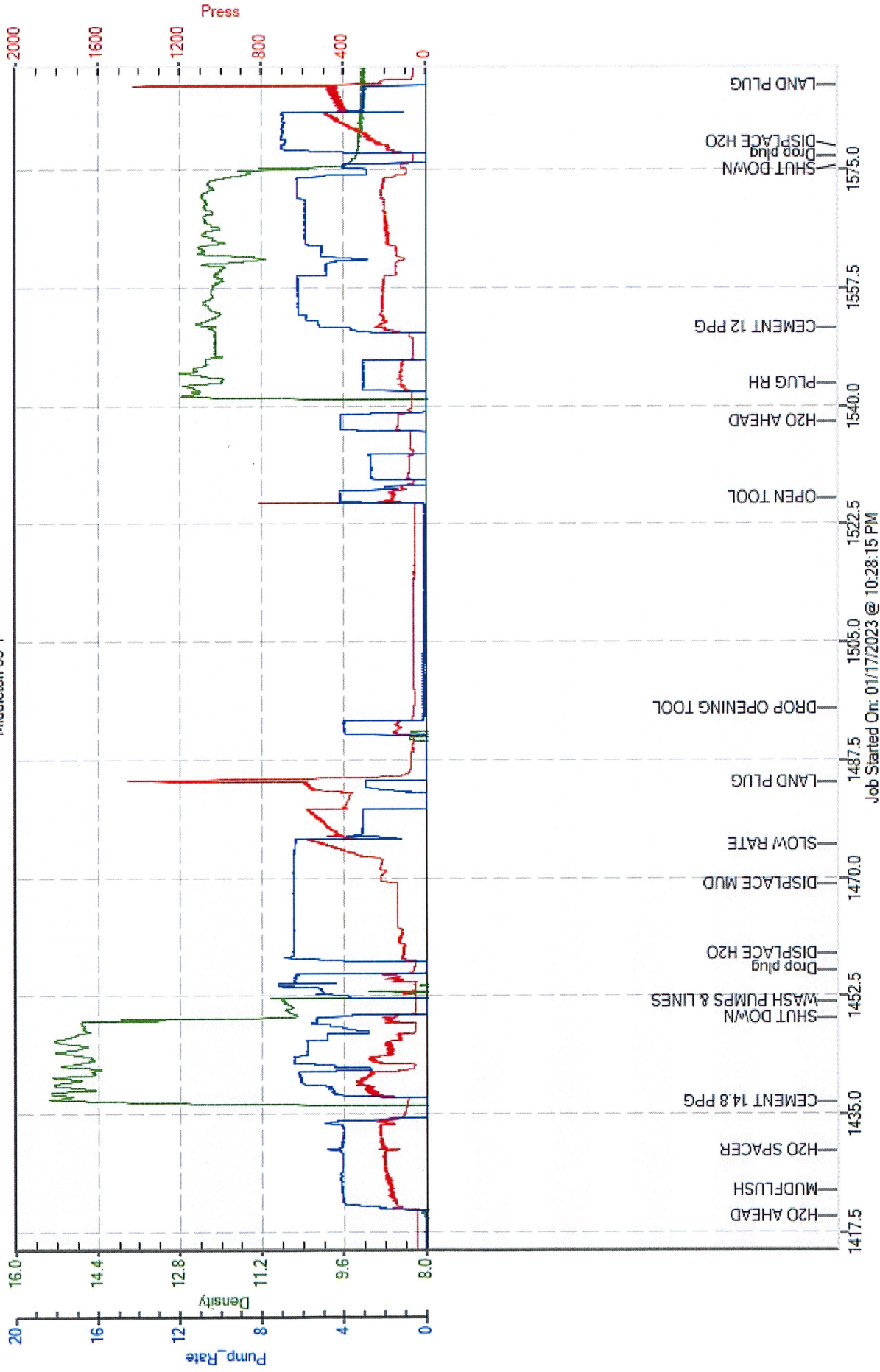
| Calculated Slurry - Lead |                           |
|--------------------------|---------------------------|
| Blend:                   | H-LD                      |
| Weight:                  | 14.8 ppg                  |
| Water / Sx:              | 6.5 gal / sx              |
| Yield:                   | 1.51 ft <sup>3</sup> / sx |
| Annular Bbls / Ft.:      | 0.0309 bbs / ft.          |
| Depth:                   | 4515 ft                   |
| Annular Volume:          | 139.5 bbls                |
| Excess:                  |                           |
| Total Slurry:            | 40.3 bbls                 |
| Total Sacks:             | 150 sx                    |

| Calculated Slurry - Tail |                           |
|--------------------------|---------------------------|
| Blend:                   | H_Con                     |
| Weight:                  | 12 ppg                    |
| Water / Sx:              | 15.5 gal / sx             |
| Yield:                   | 2.56 ft <sup>3</sup> / sx |
| Annular Bbls / Ft.:      | 0.0309 bbs / ft.          |
| Depth:                   | 1955 ft                   |
| Annular Volume:          | 60.4095 bbls              |
| Excess:                  |                           |
| Total Slurry:            | 125.3 bbls                |
| Total Sacks:             | 275 sx                    |

| TIME     | RATE | PSI     | BBLs  | TOTAL BBLs | REMARKS  |
|----------|------|---------|-------|------------|--|
| 7:00 PM  |      |         | -     | -          | Arrived on location  |
| 7:10 PM  |      |         |       | -          | Safety meeting   |
| 7:20 PM  |      |         |       | -          | Rigged up  |
| 9:15 PM  |      |         |       | -          | Set DV Tool between joints 63-64 @ 1955'   |
| 10:12 PM |      |         |       | -          | Casing on bottom   |
| 10:45 PM |      |         |       | -          | Dropped ball and circulated mud  |
| 12:13 AM | 4.0  | 150.0   | 20.0  | 20.0       | Water ahead with 2% KCL  |
| 12:19 AM | 4.2  | 200.0   | 24.0  | 44.0       | Pumped 1000 gallons mud flush  |
| 12:26 AM | 4.0  | 200.0   | 2.0   | 46.0       | Water behind   |
| 12:30 AM | 5.5  | 225.0   | 40.3  | 86.3       | Mixed 150 sacks H-LD Lead cement @ 14.8 ppg  |
| 12:42 AM |      |         |       | 86.3       | Shut down, loaded plug, cleared pump and lines   |
| 12:50 AM | 6.5  | 120.0   | 60.0  |            | Begin water displacement with 2% KCL   |
| 1:00 AM  | 6.5  | 500.0   | 39.1  |            | Begin mud displacement   |
| 1:07 AM  | 3.0  | 750.0   |       |            | Slowed down to 3 bpm 10 bbls to go   |
| 1:11 AM  |      | 1,450.0 |       |            | Plug down with 750 landing psi and 1450 bump psi   |
| 1:13 AM  |      |         |       |            | Released pressure plug held with .7 bbl back to tank   |
| 1:26 AM  |      |         |       |            | Dropped bomb and waited 30 minutes   |
| 1:58 AM  | 3.0  | 400.0   | 0.5   |            | Opened tool @ 400 psi with .5 bbl mud  |
| 1:59 AM  | 4.0  | 150.0   | 8.0   |            | Pumped remaining mud off tanks down hole   |
| 2:01 AM  |      |         |       |            | Washed up displacement tanks   |
| 2:09 AM  | 4.2  | 120.0   | 10.0  |            | Water ahead with 2% KCL  |
| 2:15 AM  | 3.0  | 120.0   | 13.6  |            | Mixed 30 sacks cement for rat hole plug  |
| 2:24 AM  | 6.0  | 200.0   | 125.3 |            | Mixed 275 sacks H-Con Tail cement  |
| 2:49 AM  |      |         |       |            | Released top stage plug  |
| 2:50 AM  | 7.0  | 200.0   | 37.7  |            | Begin displacemtn with 2% KCl  |
| 2:58 AM  | 3.0  | 450.0   | 10.0  |            | Slowed down to 3 bpm 10 bbls to go   |
| 3:01 AM  |      | 1,450.0 |       |            | Plug down @ 450 landing psi and 1450 bump psi with 15 bbls/33 sacks cement circulated to pit |

| CREW           |         | UNIT    | SUMMARY      |                  |             |
|----------------|---------|---------|--------------|------------------|-------------|
| Cementer:      | John    | 73      | Average Rate | Average Pressure | Total Fluid |
| Pump Operator: | Jose V  | 527-520 | 4.6 bpm      | 418 psi          | 391 bbls    |
| Bulk #1:       | Michael | 205     |              |                  |             |
| Bulk #2:       | Adrain  | 194-250 |              |                  |             |

LD Drilling  
Middleton 35-1





Remit To: Hurricane Services, Inc.  
 250 N. Water, Suite 200  
 Wichita, KS 67202  
 316-303-9515

Customer:  
 L D DRILLING, INC.  
 7 SW 26TH AVE  
 GREAT BEND, KS 67530

Invoice Date: 1/3/2023  
 Invoice #: 0365653  
 Lease Name: Middleton  
 Well #: 35-1 (New)  
 County: Gove, Ks  
 Job Number: WP3787  
 District: Oakley

| Date/Description         | HRS/QTY | Rate      | Total    |
|--------------------------|---------|-----------|----------|
| Surface                  | 0.000   | 0.000     | 0.00     |
| H-325                    | 275.000 | 22.500    | 6,187.50 |
| Light Eq Mileage         | 75.000  | 2.000     | 150.00   |
| Heavy Eq Mileage         | 150.000 | 4.000     | 600.00   |
| Ton Mileage              | 971.000 | 1.500     | 1,456.50 |
| Depth Charge 0'-500'     | 1.000   | 1,000.000 | 1,000.00 |
| Cement Blending & Mixing | 275.000 | 1.400     | 385.00   |
| Service Supervisor       | 1.000   | 275.000   | 275.00   |

**Total** 10,054.00

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

**WE APPRECIATE YOUR BUSINESS!**









L.D> Drilling  
Middleton 35-1

