

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 <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample 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 <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <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: <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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: Top Bottom |
|---|---|------------------------------------|

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

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

| | |
|-----------|------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Dixon Operating Company, LLC |
| Well Name | CURTIS 1-4 |
| Doc ID | 1361866 |

All Electric Logs Run

| |
|-----|
| |
| DIL |
| MEL |
| POR |
| SON |

| | |
|-----------|------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Dixon Operating Company, LLC |
| Well Name | CURTIS 1-4 |
| Doc ID | 1361866 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|-----------------|-----------|
| 4 | | Shot | 3708-3714 |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmalz

Curtis 1-4

Job Ticket: 59940

DST#: 1

Test Start: 2017.06.06 @ 18:33:50

GENERAL INFORMATION:

Formation: **Lansing "A-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:10:05

Time Test Ended: 02:41:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 3316.00 ft (KB) To 3418.00 ft (KB) (TVD)

Reference Elevations: 1853.00 ft (KB)

Total Depth: 3418.00 ft (KB) (TVD)

1844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8159

Inside

Press@RunDepth: 96.96 psig @ 3317.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.06

End Date:

2017.06.07

Last Calib.:

2017.06.07

Start Time: 18:33:51

End Time:

02:41:35

Time On Btm:

2017.06.06 @ 22:09:05

Time Off Btm:

2017.06.07 @ 01:10:50

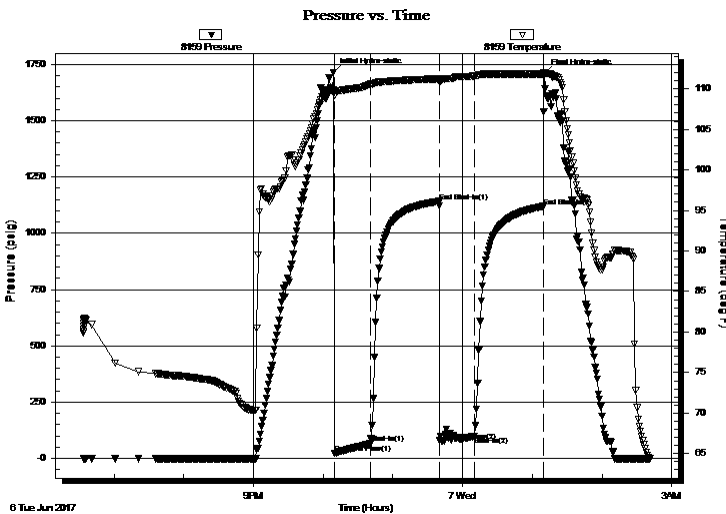
TEST COMMENT: IF: Fair Blow , Built to 7 1/2 inches

IS: No Blow Back

FF: Weak 2 inch Blow

FS: No Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1714.01 | 109.92 | Initial Hydro-static |
| 1 | 21.50 | 109.20 | Open To Flow (1) |
| 32 | 64.95 | 110.56 | Shut-In(1) |
| 91 | 1141.57 | 111.22 | End Shut-In(1) |
| 92 | 78.02 | 110.85 | Open To Flow (2) |
| 121 | 96.96 | 111.57 | Shut-In(2) |
| 181 | 1119.54 | 111.80 | End Shut-In(2) |
| 182 | 1710.36 | 111.97 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 150.00 | SGCM 2%G 98%M | 2.10 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmaltz

Curtis 1-4

Job Ticket: 59940

DST#: 1

Test Start: 2017.06.06 @ 18:33:50

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 9.19 in³

Resistivity: ohm.m

Salinity: 4600.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 150.00 | SGCM 2%G 98%M | 2.104 |

Total Length: 150.00 ft Total Volume: 2.104 bbl

Num Fluid Samples: 0

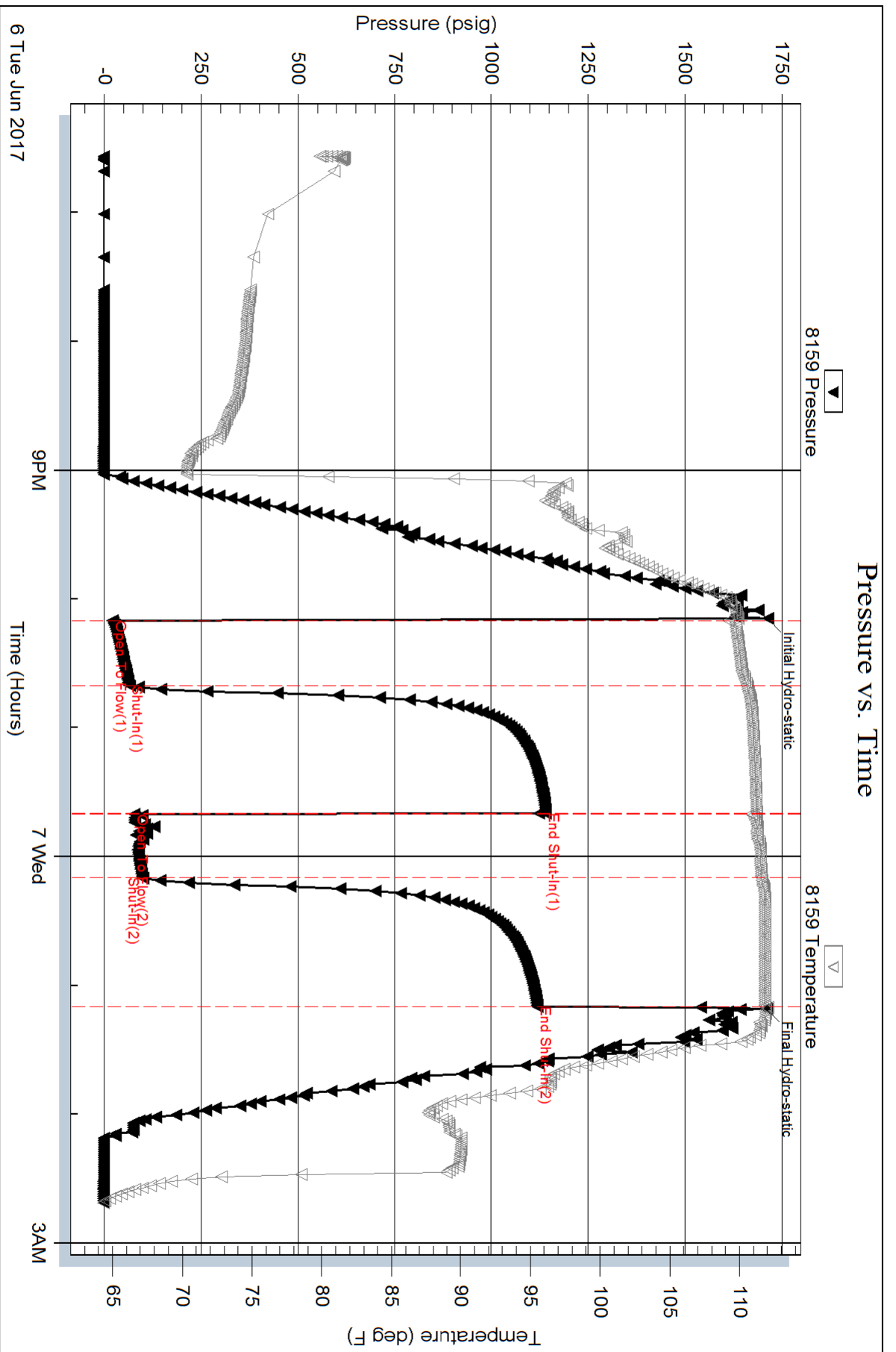
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

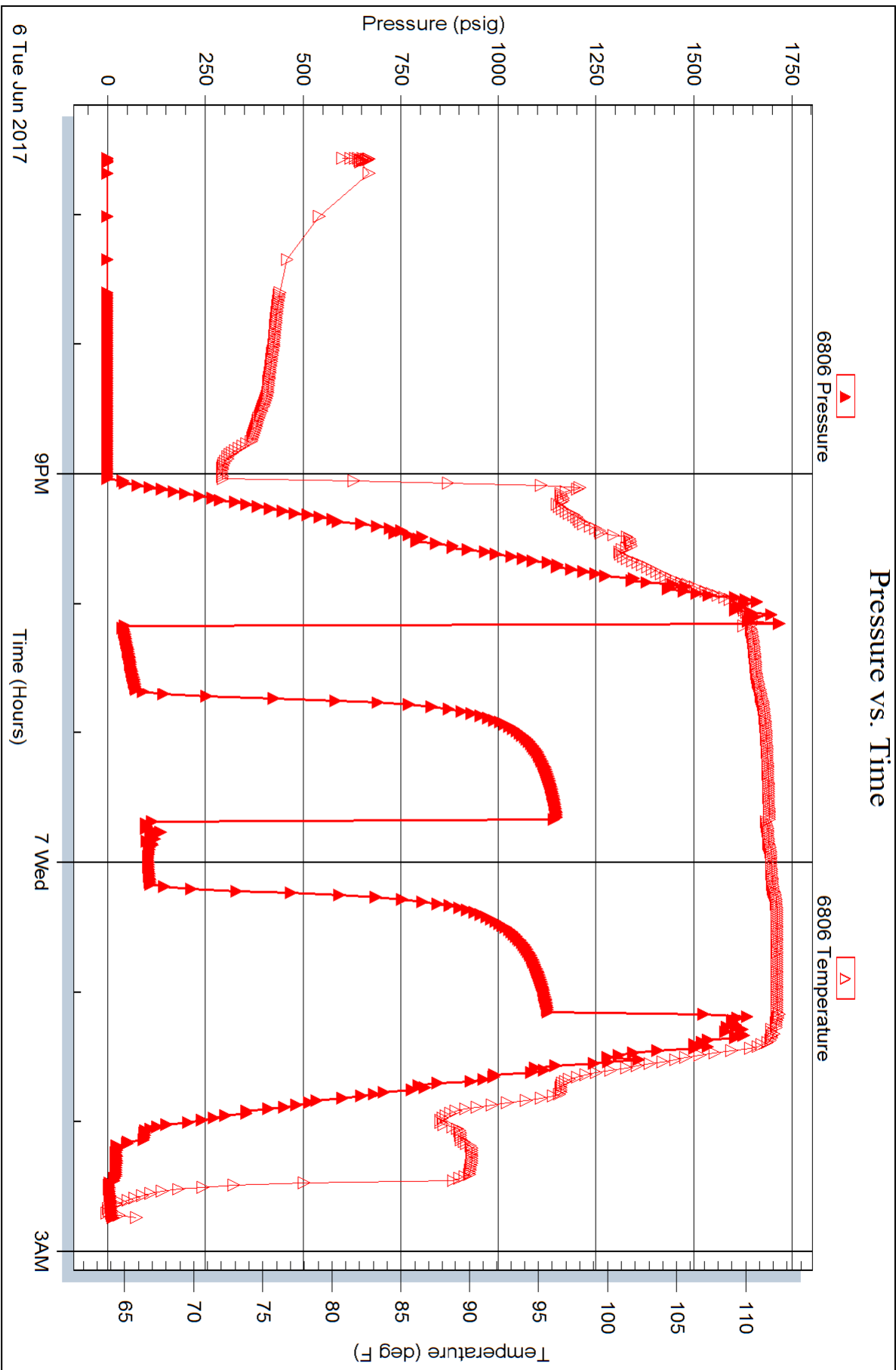


Serial #: 6806

Outside Dixon Operating Co

Curtis 1-4

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmalz

Curtis 1-4

Job Ticket: 59941

DST#: 2

Test Start: 2017.06.07 @ 18:57:49

GENERAL INFORMATION:

Formation: **Lansing "H-L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:11:49

Time Test Ended: 03:21:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3464.00 ft (KB) To 3580.00 ft (KB) (TVD)

Reference Elevations: 1853.00 ft (KB)

Total Depth: 3580.00 ft (KB) (TVD)

1844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8159

Inside

Press@RunDepth: 122.71 psig @ 3465.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.07

End Date:

2017.06.08

Last Calib.:

2017.06.08

Start Time:

18:57:50

End Time:

03:21:19

Time On Btm:

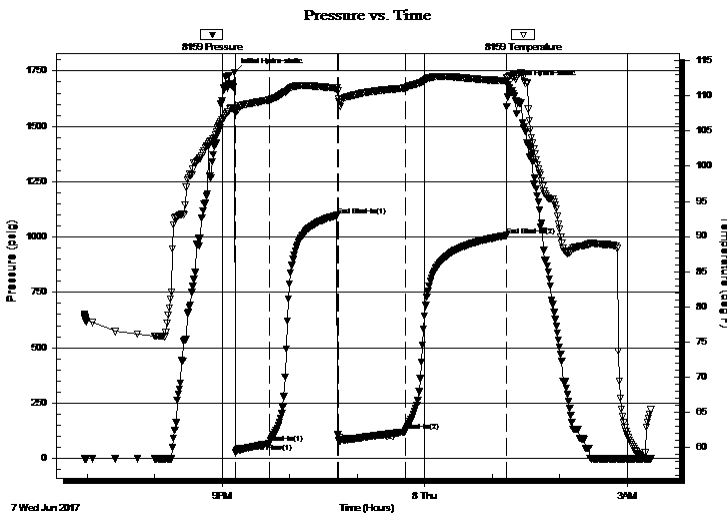
2017.06.07 @ 21:11:04

Time Off Btm:

2017.06.08 @ 01:14:19

TEST COMMENT: IF: Strong Blow , BOB in 5 minutes
IS: Weak Surface Blow Back
FF: Strong Blow , BOB in 1 minute
FS: Weak Surface Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1743.65 | 108.25 | Initial Hydro-static |
| 1 | 26.15 | 107.59 | Open To Flow (1) |
| 31 | 68.81 | 109.45 | Shut-In(1) |
| 92 | 1097.91 | 111.11 | End Shut-In(1) |
| 93 | 78.98 | 109.59 | Open To Flow (2) |
| 152 | 122.71 | 111.11 | Shut-In(2) |
| 242 | 1006.92 | 112.15 | End Shut-In(2) |
| 244 | 1687.41 | 112.57 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 0.00 | 3140 GIP | 0.00 |
| 124.00 | GMCO 10%G 60%O 30%M | 1.74 |
| 134.00 | GMCO 10%G 24%M 66%O | 1.88 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co
8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmaltz

4-23S-12W Stafford
Curtis 1-4
Job Ticket: 59941 **DST#: 2**
Test Start: 2017.06.07 @ 18:57:49

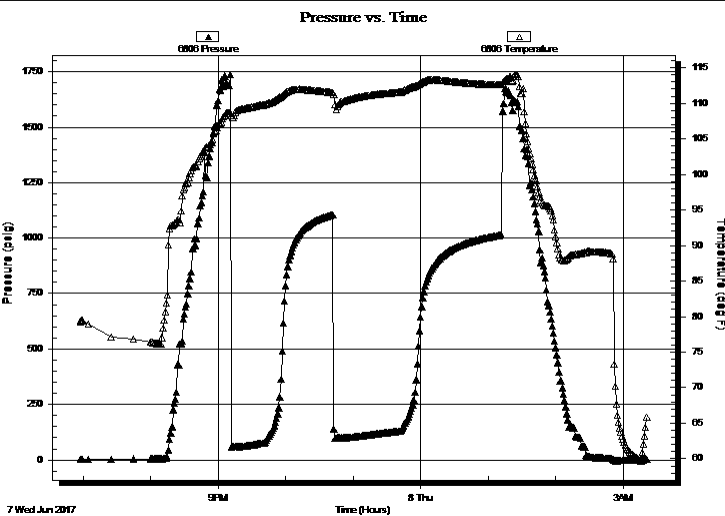
GENERAL INFORMATION:

Formation: **Lansing "H-L"**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 21:11:49 Tester: Leal Cason
Time Test Ended: 03:21:19 Unit No: 74

Interval: **3464.00 ft (KB) To 3580.00 ft (KB) (TVD)** Reference Elevations: 1853.00 ft (KB)
Total Depth: 3580.00 ft (KB) (TVD) 1844.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 6806 Outside
Press@RunDepth: psig @ 3465.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.06.07 End Date: 2017.06.08 Last Calib.: 2017.06.08
Start Time: 18:57:50 End Time: 03:21:19 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Strong Blow , BOB in 5 minutes
IS: Weak Surface Blow Back
FF: Strong Blow , BOB in 1 minute
FS: Weak Surface Blow Back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |

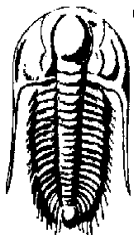
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 0.00 | 3140 GIP | 0.00 |
| 124.00 | GMCO 10%G 60%O 30%M | 1.74 |
| 134.00 | GMCO 10%G 24%M 66%O | 1.88 |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N

Curtis 1-4

Bldg 300 Ste 200

Job Ticket: 59941

DST#: 2

Wichita, KS 67226

Test Start: 2017.06.07 @ 18:57:49

ATTN: Chuck Schmaltz

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------|----------------|
| 0.00 | 3140 GIP | 0.000 |
| 124.00 | GMCO 10%G 60%O 30%M | 1.739 |
| 134.00 | GMCO 10%G 24%M 66%O | 1.880 |

Total Length: 258.00 ft Total Volume: 3.619 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmalz

Curtis 1-4

Job Ticket: 59942

DST#: 3

Test Start: 2017.06.08 @ 18:35:40

GENERAL INFORMATION:

Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:21:25
 Time Test Ended: 01:53:40
 Interval: **3613.00 ft (KB) To 3665.00 ft (KB) (TVD)**
 Total Depth: 3665.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1853.00 ft (KB)
 1844.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8159

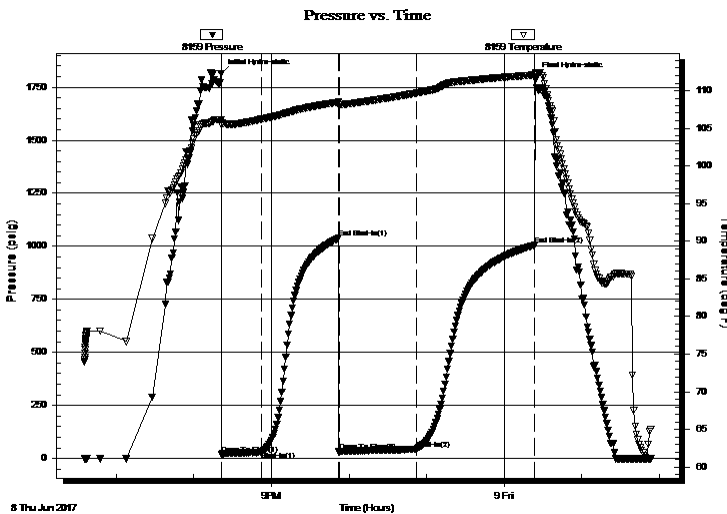
Inside

Press@RunDepth: 42.70 psig @ 3614.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.06.08 End Date: 2017.06.09 Last Calib.: 2017.06.09
 Start Time: 18:35:41 End Time: 01:53:40 Time On Btm: 2017.06.08 @ 20:21:10
 Time Off Btm: 2017.06.09 @ 00:23:55

TEST COMMENT: IF: Weak Blow , Built to 3 inches
 IS: No Blow Back
 FF: Weak 1/2 inch Blow
 FS: No Blow Back

PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1814.60 | 106.17 | Initial Hydro-static |
| 1 | 20.84 | 105.50 | Open To Flow (1) |
| 31 | 31.89 | 106.19 | Shut-In(1) |
| 91 | 1038.49 | 108.46 | End Shut-In(1) |
| 92 | 32.45 | 108.17 | Open To Flow (2) |
| 151 | 42.70 | 109.67 | Shut-In(2) |
| 242 | 1004.77 | 112.06 | End Shut-In(2) |
| 243 | 1798.72 | 112.32 | Final Hydro-static |



Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 40.00 | SGCM 2%G 98%M | 0.56 |
| | | |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmaltz

Curtis 1-4

Job Ticket: 59942

DST#: 3

Test Start: 2017.06.08 @ 18:35:40

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)
Time Tool Opened: 20:21:25 Tester: Leal Cason
Time Test Ended: 01:53:40 Unit No: 74
Interval: 3613.00 ft (KB) To 3665.00 ft (KB) (TVD) Reference Elevations: 1853.00 ft (KB)
Total Depth: 3665.00 ft (KB) (TVD) 1844.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

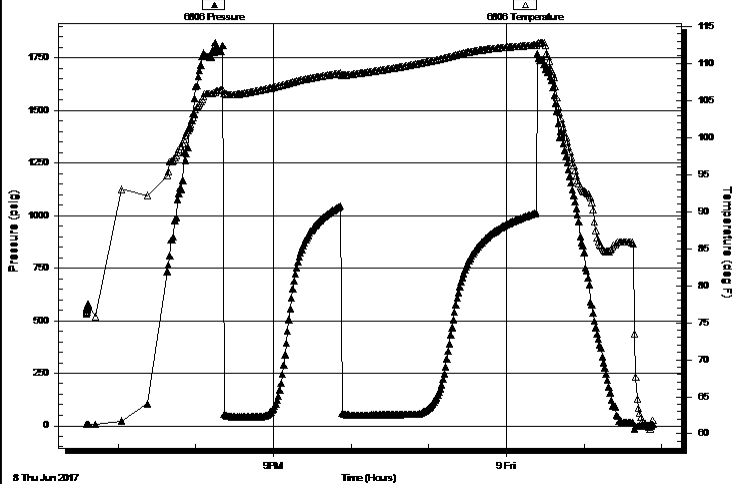
Serial #: 6806

Outside

Press@RunDepth: psig @ 3614.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.06.08 End Date: 2017.06.09 Last Calib.: 2017.06.09
Start Time: 18:35:41 End Time: 01:53:40 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 3 inches
IS: No Blow Back
FF: Weak 1/2 inch Blow
FS: No Blow Back

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 40.00 | SGCM 2%G 98%M | 0.56 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmaltz

Curtis 1-4

Job Ticket: 59942

DST#: 3

Test Start: 2017.06.08 @ 18:35:40

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 58.00 sec/qt

Water Loss: 9.18 in³

Resistivity: ohm.m

Salinity: 4600.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 40.00 | SGCM 2%G 98%M | 0.561 |

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

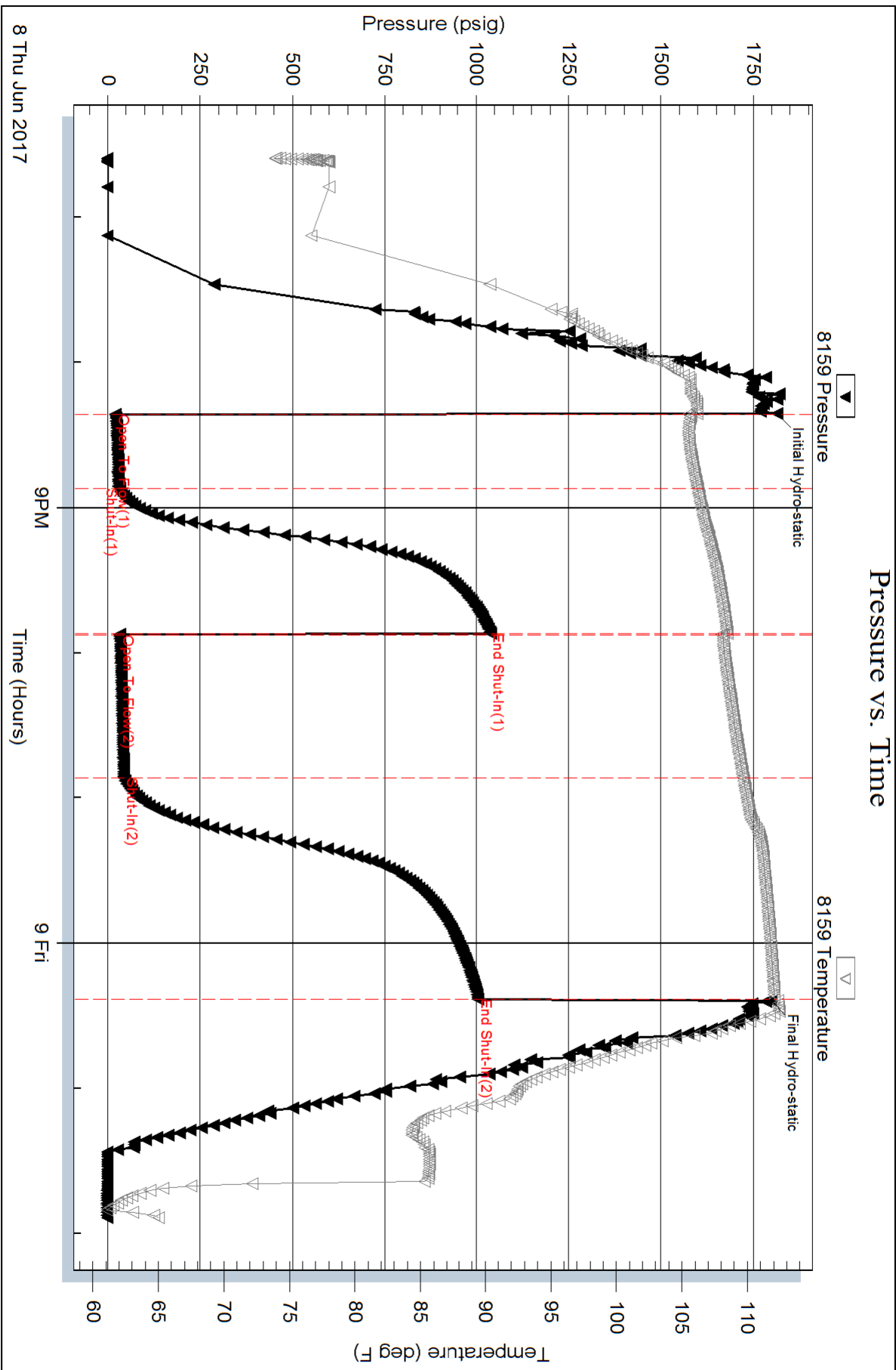
Num Gas Bombs: 0

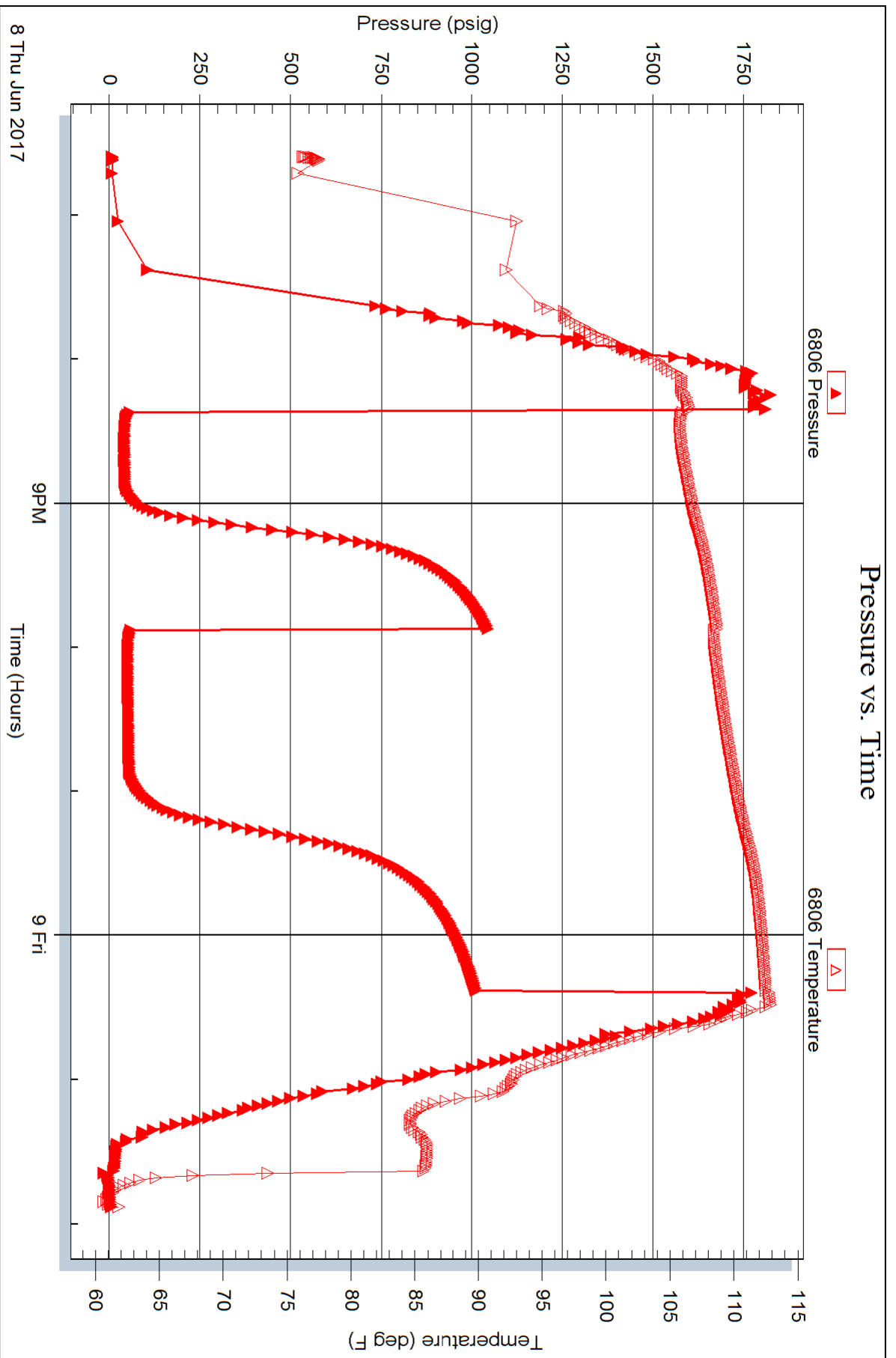
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmalz

Curtis 1-4

Job Ticket: 59943

DST#: 4

Test Start: 2017.06.09 @ 10:43:01

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:27:31

Time Test Ended: 17:50:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3666.00 ft (KB) To 3719.00 ft (KB) (TVD)

Reference Elevations: 1853.00 ft (KB)

Total Depth: 3719.00 ft (KB) (TVD)

1844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8159

Inside

Press@RunDepth: 33.92 psig @ 3667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.09

End Date:

2017.06.09

Last Calib.:

2017.06.09

Start Time:

10:43:02

End Time:

17:50:46

Time On Btm:

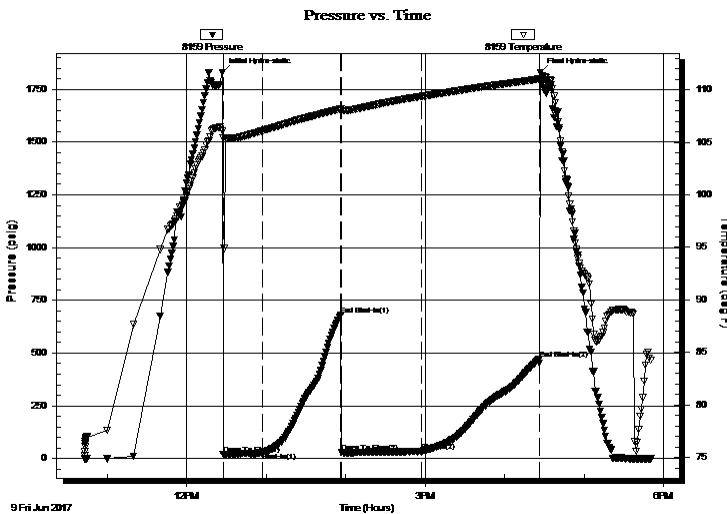
2017.06.09 @ 12:27:16

Time Off Btm:

2017.06.09 @ 16:27:16

TEST COMMENT: IF: Weak Blow, Built to 1 1/2 inches
IS: No Blow Back
FF: Weak Blow, Built to 3 1/2 inches
FS: No Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1828.42 | 106.04 | Initial Hydro-static |
| 1 | 18.63 | 105.39 | Open To Flow (1) |
| 31 | 27.76 | 106.10 | Shut-In(1) |
| 89 | 679.21 | 108.18 | End Shut-In(1) |
| 90 | 27.98 | 108.00 | Open To Flow (2) |
| 150 | 33.92 | 109.37 | Shut-In(2) |
| 239 | 472.12 | 111.02 | End Shut-In(2) |
| 240 | 1830.21 | 111.65 | Final Hydro-static |

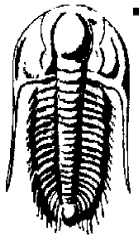
Recovery

Gas Rates

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 0.00 | 260 GIP | 0.00 |
| 40.00 | OCM 20%O 80%M | 0.56 |
| 1.00 | Clean Oil | 0.01 |
| | | |
| | | |

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmalz

Curtis 1-4

Job Ticket: 59943

DST#: 4

Test Start: 2017.06.09 @ 10:43:01

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:27:31

Time Test Ended: 17:50:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3666.00 ft (KB) To 3719.00 ft (KB) (TVD)

Reference Elevations: 1853.00 ft (KB)

Total Depth: 3719.00 ft (KB) (TVD)

1844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6806 Outside

Press@RunDepth: psig @ 3667.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.06.09 End Date: 2017.06.09

Last Calib.: 2017.06.09

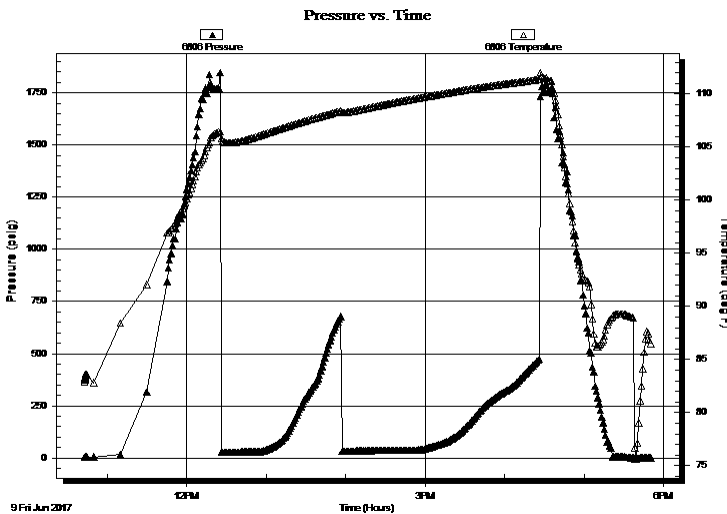
Start Time: 10:43:02 End Time: 17:50:46

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 1 1/2 inches
IS: No Blow Back
FF: Weak Blow , Built to 3 1/2 inches
FS: No Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 0.00 | 260 GIP | 0.00 |
| 40.00 | OCM 20%O 80%M | 0.56 |
| 1.00 | Clean Oil | 0.01 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co

4-23S-12W Stafford

8100 E 22nd St N
Bldg 300 Ste 200
Wichita, KS 67226
ATTN: Chuck Schmaltz

Curtis 1-4

Job Ticket: 59943

DST#: 4

Test Start: 2017.06.09 @ 10:43:01

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 9.17 in³
Resistivity: ohm.m
Salinity: 4600.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 0.00 | 260 GIP | 0.000 |
| 40.00 | OCM 20%O 80%M | 0.561 |
| 1.00 | Clean Oil | 0.014 |

Total Length: 41.00 ft Total Volume: 0.575 bbl

Num Fluid Samples: 0

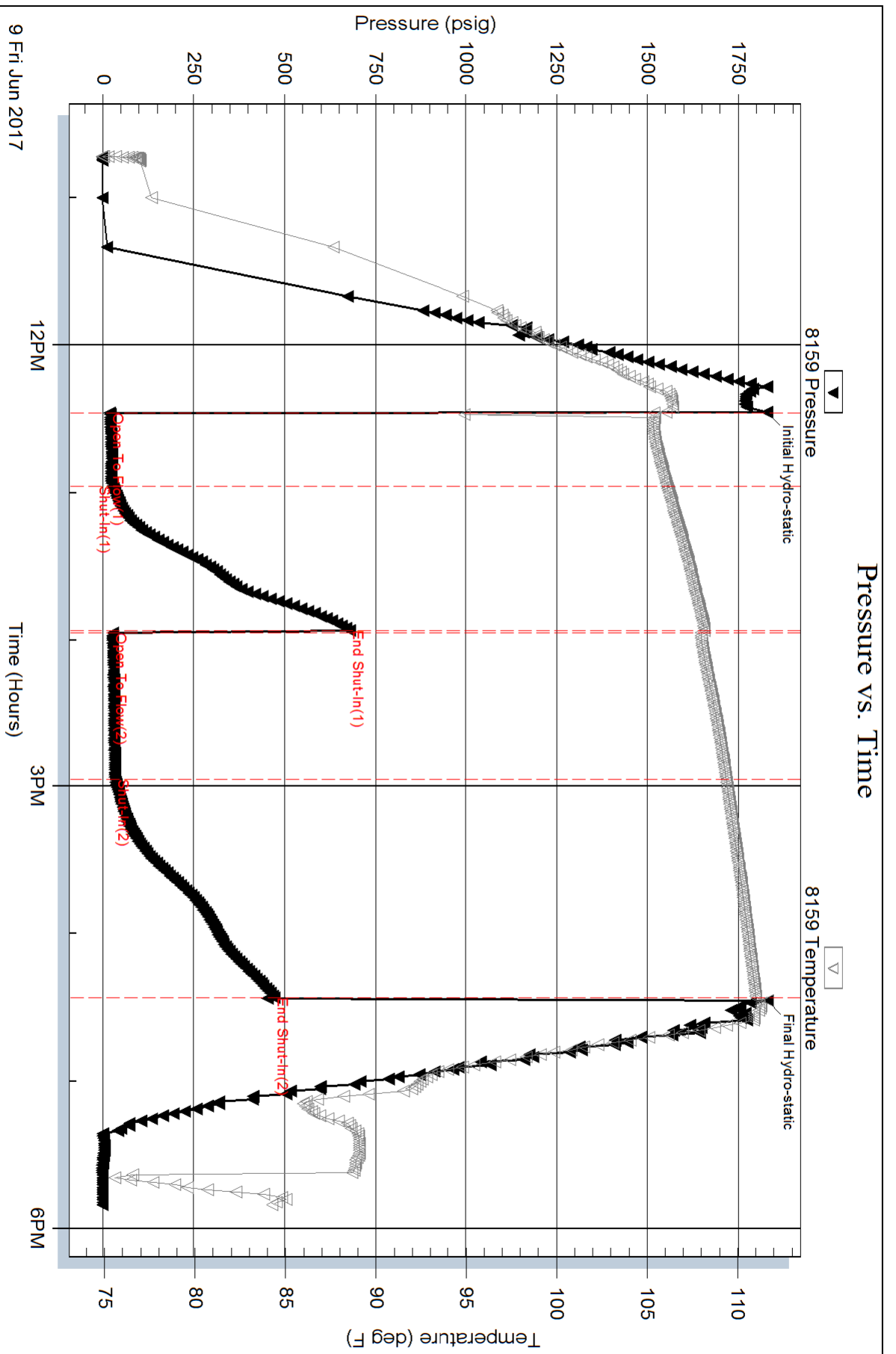
Num Gas Bombs: 0

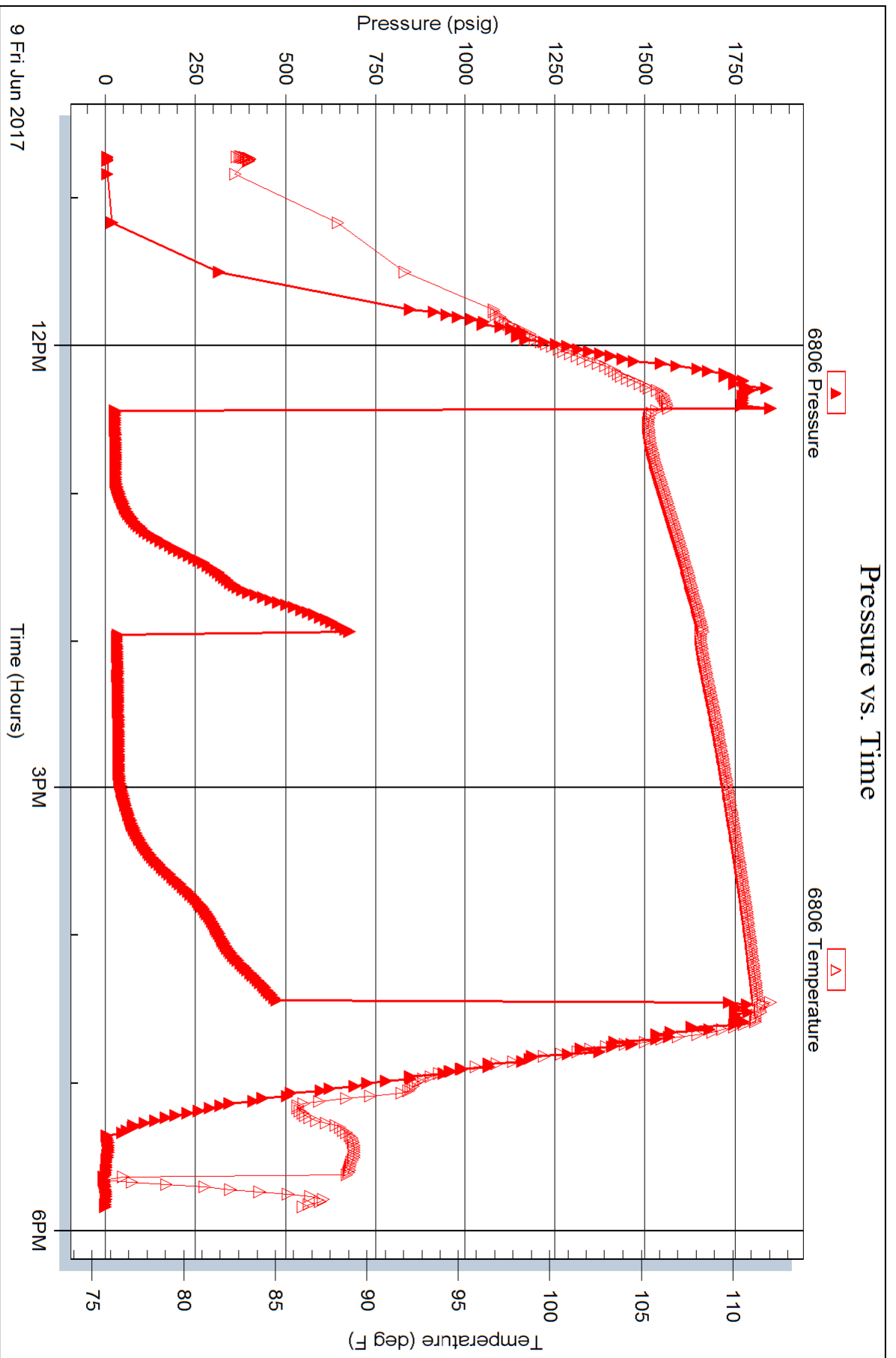
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





CHARLES SCHMALTZ CONSULTING GEOLOGIST WICHITA, KANSAS

GEOLOGIC REPORT LOG

COMPANY: DIXON OPERATING CO. LLC

WELL: CURTIS # 1-14

LOCATION: 3301 FSL 2960' FEL

SECTION: 4 T12S R12W

COUNTY: SEDGEBURG KANSAS

STATE: KANSAS

APR: 15-185-23987-0000

DATE: 6/15/17

BY: KENNETH W. LIND

SCALE: 1" = 100'

PRODUCTION: 1850' TO 1870'

ELEVATION: 1850'

WELL DEPTH: 3675'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

LOG SCALE: 1" = 100'

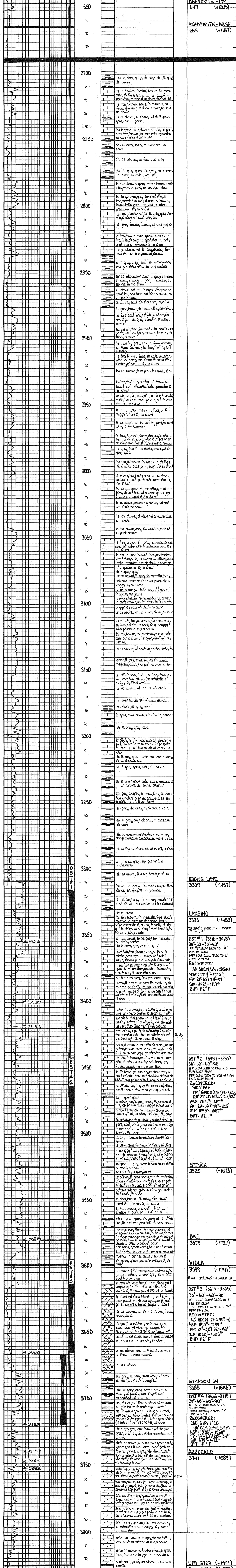
LOG SCALE: 1" = 100'

FORMATION TOBS & STRUCTURAL POSITION table with columns for FORMATION, SAMPLE NO., TOP, LOG TOP, SIZE, STR. POSN, STRUCTURAL POSITION.

DAILY REGISTRATION table with columns for DATE, TIME, SDR, DEPTH, FEET, HOURS, DEVIATION, SDRS, etc.

DRILL TIME IN MINUTES PER FOOT table with columns for RATE OF PENETRATION DECREASES.

LEGEND table with columns for Lithology patterns and descriptions: Anhydrite, Salt, Sandstone, Shale, Carb sh, Limestone, Oil. Ltrne, Chert, Dolomite.



REMARKS table with columns for OIL SHOWS and REMARKS, including DST #1, DST #2, DST #3, and ARBUCKLE.

Mud-Co / Service Mud Inc.

Operator **Dixon Operating** County **Stafford** State **Kansas** Pump **6** X **14** X **60** SPM Casing Program **8 5/8** " @ **347** ft.
 Well **Curtis #1-4** Location _____ GPM **7.75** BPM _____ " @ _____ ft.
 Contractor **Southwind #9** Sec **4** TWP **23S** RNG **12W** D.P. **4.5** in. **191** FT/MIN R.A. _____ " @ _____ ft.
 Stockpoint **Pratt, Ks.** Date **5/31/2017** Engineer **Rick Hughes** Collar **6.25** in. **450** ft. **348** FT/MIN R.A. _____ " @ _____ ft.
 Total Depth **3825'** ft.

| DATE | DEPTH | WEIGHT | VISCOSITY | | | GELS | pH | FILTRATION/IRTRATION ANALYSIS | | | | | SAND | RETORT | | | L.C.M. | Pump | CUMULATIVE | REMARKS AND TREATMENT | |
|--|-------|--------|-----------|----|----|-------|------|-------------------------------|-------------|--------|------------|-------------|-------|--------|--------|------|--------|--------------------------------------|------------|-----------------------|--------------------------------|
| | | | Sec API | PV | Yp | | | 10 sec / 10 min. | Strip Meter | ml API | Cake 32nds | Pres. #/BBL | | Cl ppm | Ca ppm | % | | | | | Solids % |
| 5/30 | 0 | | | | | | | | | | | | | | | | | | 0 | RURT | State required lining |
| 6/1 | 468 | | W | A | T | E | R | | | | | | | | | | | | 1,344 | Drlg. | reserve pit with bentonite |
| 6/2 | 1639 | 8.6 | 27 | 1 | 1 | 0/0 | 7.0 | N/C | - | | | 27M | Hvy | 0.6 | | 99.4 | | | 1,427 | Stuck Pipe | Stuck at 1639 after rig check, |
| 6/2 | 1639 | 8.5 | 84 | 20 | 35 | 21/38 | 7.0 | 6.8 | 1 | | | 3,200 | N/C | 1.4 | | 98.6 | 1 | | 5,139 | CCM | could not circulate |
| 6/3 | 1639 | 8.7 | 46 | 10 | 15 | 11/12 | 7.0 | 11.2 | 3 | | | 23.5M | 1,360 | 1.5 | | 98.5 | Tr | | 5,306 | Trip in w/bait | Backed off at 1495 |
| 6/4 | 2207 | 9.2 | 32 | 3 | 5 | 1/2 | 7.0 | N/C | - | | | 49M | Hvy | 3.5 | | 96.5 | | | 7,137 | Drlg. | Washedover fish and |
| 6/5 | 2798 | 8.7 | 61 | 15 | 21 | 13/60 | 11.5 | 8.8 | 1 | | | 3,800 | 20 | 2.7 | | 97.3 | 1 | | 9,860 | Drlg. | recovered same |
| 6/6 | 3355 | 9.5 | 58 | 15 | 19 | 11/61 | 10.5 | 9.2 | 2 | | | 4,600 | 40 | 8.2 | | 91.8 | 1/2 | | 10,531 | Drlg. | Mud cost of washover : |
| 6/7 | 3456 | 9.6 | 47 | 12 | 16 | 17/44 | 9.0 | 9.6 | 1 | | | 5,500 | 80 | 8.9 | | 91.1 | | | 10,531 | Drlg. | 4135.09 + 1 load delivered |
| 6/8 | 3613 | 9.3 | 42 | 6 | 13 | 9/32 | 10.0 | 9.8 | 1 | | | 5,000 | 100 | 6.8 | | 93.2 | | | 12,439 | Trip for plug bit. | and partial returned |
| 6/9 | 3719 | 9.4 | 44 | 12 | 13 | 14/44 | 10.0 | 9.6 | 1 | | | 6,000 | 100 | 7.5 | | 92.5 | 1# | | 14,229 | CFS/DST #4 | Displaced @ 2643 |
| 6/10 | 3825 | 9.4+ | 49 | 13 | 14 | 14/44 | 10.0 | 9.6 | 1 | | | 5,500 | 100 | 7.5 | | 92.5 | 2# | | 14,621 | Final: | |
| RTD-3828,LTD-3823, LOGGED OK 4-DSTs, RAN CASING | | | | | | | | | | | | | | | | | | | | | |
| dst #1 at 3418, DST #2 AT 3580, dst #3 at 3665,dst #4 at 3719 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | 46,000 | | | |
| | | | | | | | | | | | | | | | | | | Reserve Pit, Chl content ppm: 46,000 | | | |
| | | | | | | | | | | | | | | | | | | Estimated Volume: 1500 bbls | | | |
| Steel pits with centrifugal transfer pump | | | | | | | | | | | | | | | | | | | | | |

MUD-CO / SERVICE MUD INC.

100 S. Main Suite #310
Wichita, Ks. 67202
316/264-2814 Fax: 316/264-5024

DRILLING MUD RECAP

| Materials | Sacks | Amount | Materials | Sacks | Amount | | Amount |
|--------------|-------|---------|-------------|-------|--------|--------------------|-----------------|
| C/S HULLS | 94 | 1568.86 | X-CIDE 102W | 1 | 335 | | |
| CAUSTIC SODA | 17 | 1062.84 | | | | | |
| CO-POLY-L | 1 | 171.12 | | | | | |
| DESCO | 2 | 239.56 | | | | | |
| DRILL PAK | 4 | 1227.6 | | | | | |
| LLIME | 4 | 40.92 | | | | | |
| PREMIUM GEL | 374 | 6399.14 | | | | | |
| SODA ASH | 21 | 504.84 | | | | | |
| DRLG STARCH | 48 | 2671.68 | | | | | |
| SUPER LIG | 15 | 399 | | | | | |
| | | | | | | Total Mud Cost | 14620.56 |
| | | | | | | Trucking Cost | 1328.83 |
| | | | | | | Trucking Surcharge | |
| | | | | | | Taxes | |
| | | | | | | TOTAL COST | 15949.39 |

Customer Dixon Operations Lease No. _____ Date 6/11/2017
 Lease Curtis Well # 1-4
 Field Order # 14972 Station Pratt, KS Casing 5 1/2 Depth 3822 County Stafford State KS
 Type Job 242/5 1/2 Long strings Formation _____ Legal Description 4-235-124

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|------------------------|--------------|------------------|----|-------------------------|--|------------------|-------|------------------|
| Casing Size | Tubing Size | Shots/Ft | | Acid | | RATE | PRESS | ISIP |
| <u>5 1/2</u> | | | | Pre Pad | | Max | | 5 Min. |
| Depth <u>3822</u> | Depth | From | To | Pad | | Min | | 10 Min. |
| Volume <u>88.6</u> | Volume | From | To | Frac | | Avg | | 15 Min. |
| Max Press | Max Press | From | To | Flush <u>Freshwater</u> | | Gas Volume | | Total Load |
| Well Connection | Annulus Vol. | From | To | | | HHP Used | | Annulus Pressure |
| Plug Depth <u>3803</u> | Packer Depth | From | To | | | | | |

Customer Representative TJ Dixon Station Manager Justin Westerman Treater Darin Franklin

| | | | | | | | | | |
|---------------|--------------|---------------|--------------|--------------|--|--|--|--|--|
| Service Units | <u>92911</u> | <u>27463</u> | <u>19966</u> | <u>73768</u> | | | | | |
| Driver Names | <u>Dixon</u> | <u>McGraw</u> | <u>Jason</u> | <u>Jason</u> | | | | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|---------------|-----------------|-----------------|--------------|--------------|--|
| <u>8:45pm</u> | | | | | <u>on location / safety meeting</u> |
| | | | | | <u>5 1/2 17# casing set at 3822</u> |
| | | | | | <u>T-1, 3, 4, 5, 6, 7, 9, 11, 12, 13, 15 B-3</u> |
| | | | | | <u>255K 60/40 PDZ, 2% Gel - 13 PPS, 1 Cover</u> |
| | | | | | <u>1755K AD2 Cement, 0.5% Fluid loss</u> |
| | | | | | <u>0.25 PPS defoamer, 6.3% Friction reducer</u> |
| | | | | | <u>10% SPT, 3% Mss Chem CR-10, 5 PPS Gilsontite</u> |
| | | | | | <u>15.0 PPS, 1.43 Veil, 5.79 water</u> |
| <u>6/11</u> | | | | | |
| <u>3:15pm</u> | | | | | <u>Pipe on bottom break circled on</u> |
| <u>5:00pm</u> | <u>350</u> | | <u>3</u> | <u>5 1/2</u> | <u>Pump 3 bbls water</u> |
| | <u>350</u> | | <u>12</u> | <u>5 1/2</u> | <u>12 bbls Flush</u> |
| | <u>350</u> | | <u>3</u> | <u>5 1/2</u> | <u>3 bbls water</u> |
| | <u>300</u> | | <u>7</u> | <u>6</u> | <u>mix 255K sevenser</u> |
| | <u>300</u> | | <u>45</u> | <u>6</u> | <u>mix 1755K PDZ</u> |
| | | | | | <u>Shut down, WSSH pumpalins, & Release Plug</u> |
| | <u>200</u> | | <u>0</u> | <u>6</u> | <u>Stgrt displacement</u> |
| | <u>500</u> | | <u>55</u> | <u>6</u> | <u>Lift Pressure</u> |
| | <u>600</u> | | <u>78</u> | <u>3</u> | <u>slow rate</u> |
| <u>5:30pm</u> | <u>1500</u> | | <u>84</u> | <u>3</u> | <u>Bump Plug</u> |
| | | | | | <u>Flow - Hold</u> |
| | <u>100</u> | | <u>7</u> | <u>3</u> | <u>Plug Rest Hold</u> |

BASIC

energy services, L.P.

PAGE 1 of 1
CUST NO 1010053

TREATMENT REPORT

| | | |
|---------------------------------------|----------------------------------|---------------------------|
| Customer <i>Dixon Operating</i> | Lease No. | Date <i>5/31/17</i> |
| Lease <i>Curtis</i> | Well # <i>1-4</i> | 92438159 |
| Field Order # <i>15226A</i> | Station <i>Pratt, KS 1718</i> | Casing <i>8 5/8</i> |
| Type Job <i>8 5/8 Surface Pipe</i> | Formation | Depth |
| | | County <i>Stafford</i> |
| | | State <i>KS</i> |
| | | Legal Description |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|---------------------------------|--------------|------------------|----|------------|------------|------------------|------------------|--|
| Casing Size <i>8 5/8</i> | Tubing Size | Shots/Ft | | Acid | RATE | PRESS | ISIP | |
| Depth <i>316'</i> | Depth | From | To | Pre Pad | Max | | 5 Min. | |
| Volume <i>23.57</i> | Volume | From | To | Pad | Min | | 10 Min. | |
| Max Press <i>500</i> | Max Press | From | To | Frac | Avg | | 15 Min. | |
| Well Connection <i>3 5/8</i> | Annulus Vol. | From | To | | HHP Used | | Annulus Pressure | |
| Plug Depth | Packer Depth | From | To | Flush | Gas Volume | | Total Load | |

| | | |
|--|---|--------------------------------|
| Customer Representative <i>Wesley Platt</i> | Station Manager <i>Justin Washburn</i> | Treater <i>Scott Graves</i> |
| Service Units <i>38950</i> | <i>27463</i> | <i>84980</i> |
| Driver Names <i>Scott Mathis P. Ky</i> | | |

| Time | Casing Pressure | Tubing Pressure | Bbbs. Pumped | Rate | Service Log |
|-------|-----------------|-----------------|--------------|------|--------------------------------|
| 7:00 | | | | | On Location Safety Meeting Rgn |
| 10:50 | | | | | Break Circulation |
| 11:00 | 150 | | | 5 | Pump 170 Spacers |
| 10:05 | 170 | | 3 | 5 | Mix 550 sks 60/40 PD7 148 |
| 10:21 | 50 | | 75.42 | 0 | Shut down |
| 10:23 | | | | | Release Plug |
| 10:25 | 75 | | | 5 | Shut displacement |
| 10:30 | 200 | | 22.5 | 0 | Shut down Shut in well head |
| 11:35 | | | | | Workup Equipment |
| 11:50 | | | | | Job Complete |

| | |
|------------------|-------------------------------|
| LEASE # | <i>LURTI 01</i> |
| AMT | |
| | Circ Cmt to Surface ALS |
| PLEASE REFER TO: | SEND THEIR CORRESPONDENCE TO: |
| SUB TOTAL | 5,026.38 |
| TAX | 225.75 |
| INVOICE TOTAL | 5,252.13 |