

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: | |
|----------------|-------|---------|------------|--|



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hutchinson Oil Co
PO Box 521
Derby, KS 67037
ATTN: Jeff Burk

5-23S-12W Stafford

Hitz 2

Job Ticket: 55415

DST#: 2

Test Start: 2016.09.17 @ 06:51:20

GENERAL INFORMATION:

Formation: **Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:36:35

Time Test Ended: 13:32:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

Interval: 3400.00 ft (KB) To 3425.00 ft (KB) (TVD)

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3425.00 ft (KB) (TVD)

1844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8525

Inside

Press@RunDepth: 187.14 psig @ 3401.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.17

End Date:

2016.09.17

Last Calib.:

2016.09.17

Start Time: 06:51:21

End Time:

13:32:20

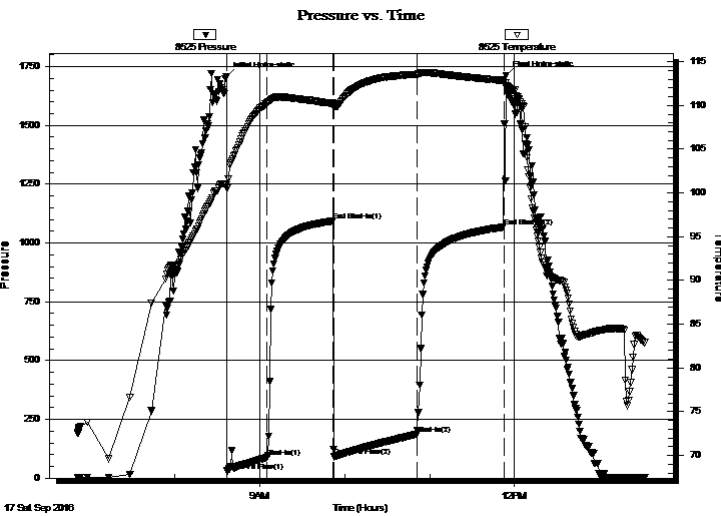
Time On Btm:

2016.09.17 @ 08:36:20

Time Off Btm:

2016.09.17 @ 11:53:50

TEST COMMENT: IF: Fair Blow , BOB in 22 minutes
IS: No Blow Back
FF: Fair Blow , BOB in 27 minutes
FS: No Blow Back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1707.28 | 100.97 | Initial Hydro-static |
| 1 | 31.15 | 100.52 | Open To Flow (1) |
| 29 | 88.18 | 110.33 | Shut-In(1) |
| 76 | 1093.43 | 110.25 | End Shut-In(1) |
| 76 | 91.04 | 109.93 | Open To Flow (2) |
| 135 | 187.14 | 113.55 | Shut-In(2) |
| 196 | 1067.74 | 112.84 | End Shut-In(2) |
| 198 | 1710.92 | 112.62 | Final Hydro-static |

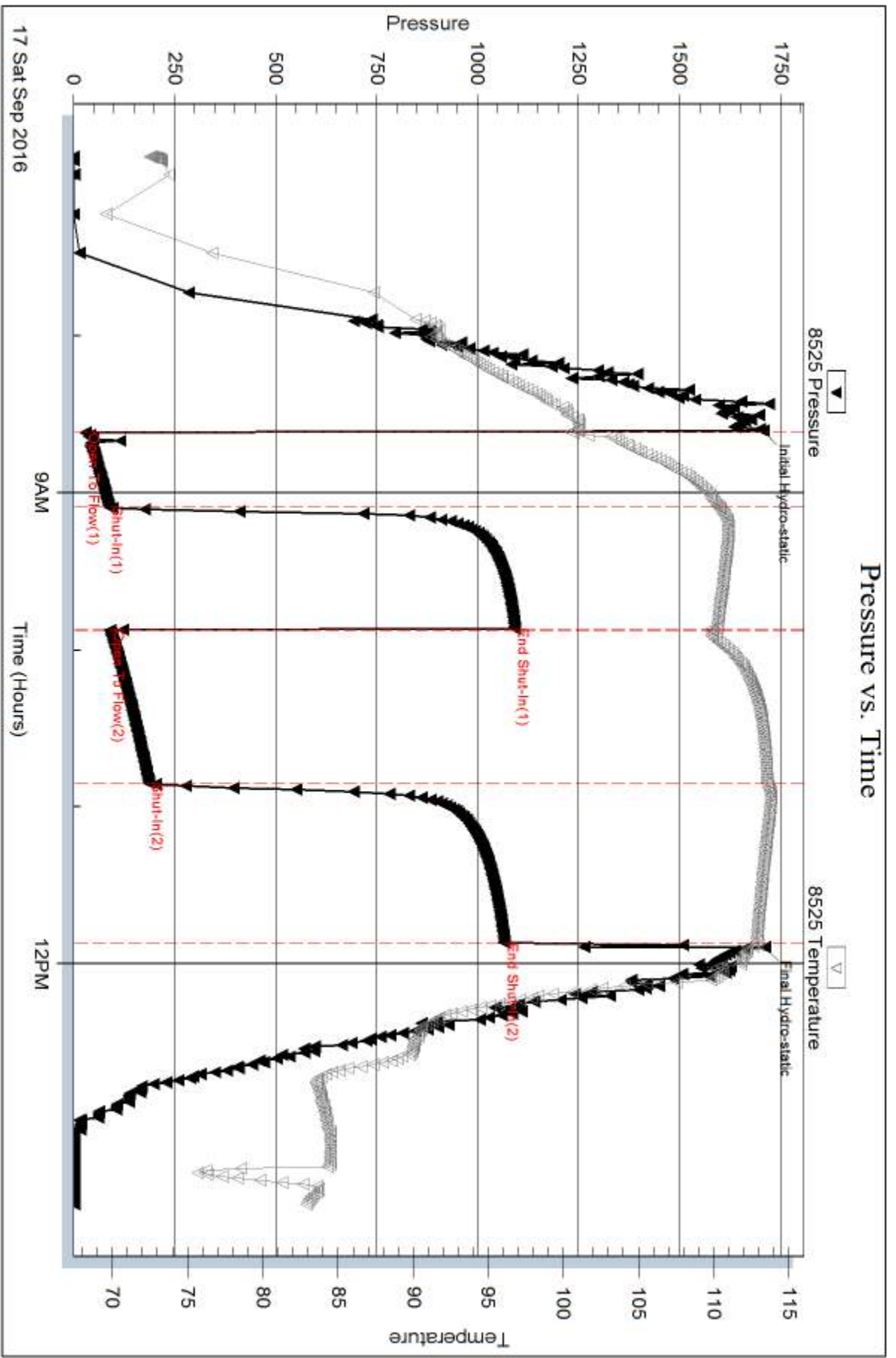
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 315.00 | Water | 4.42 |
| 30.00 | MCW 24%M 76%W | 0.42 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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

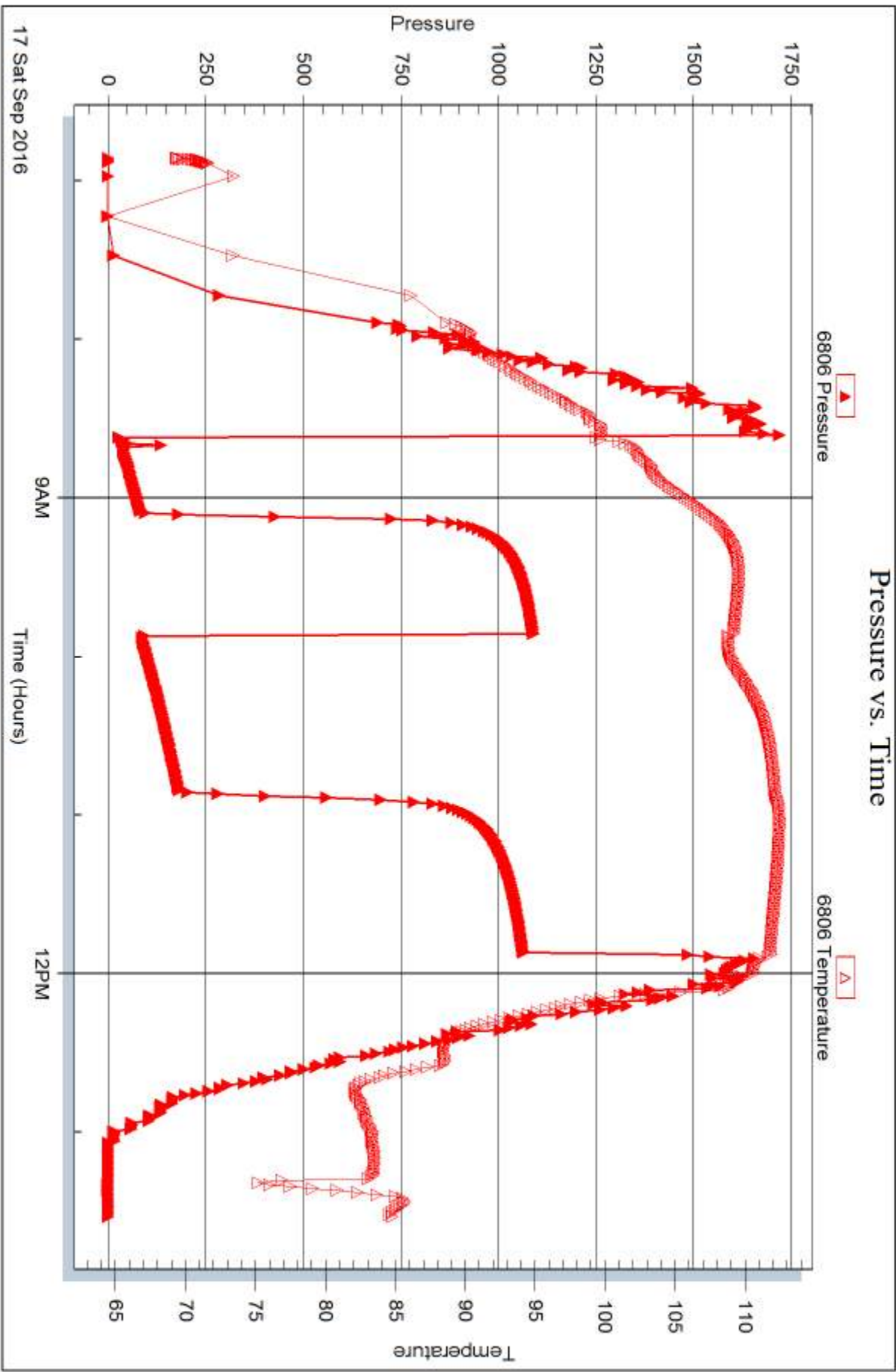


Serial #: 6806

Outside Hutchinson Oil Co

Hitz 2

DST Test Number: 2





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Hutchinson Oil Co
 PO Box 521
 Derby, KS 67037
 ATTN: Jeff Burk

5-23S-12W Stafford

Hitz 2

Job Ticket: 55414

DST#: 1

Test Start: 2016.09.16 @ 17:04:17

GENERAL INFORMATION:

Formation: **Upper KC**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:17

Time Test Ended: 23:54:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

Interval: 3360.00 ft (KB) To 3402.00 ft (KB) (TVD)

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3402.00 ft (KB) (TVD)

1844.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8525 Inside

Press@RunDepth: 61.11 psig @ 3361.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.16 End Date: 2016.09.16

Last Calib.: 2016.09.16

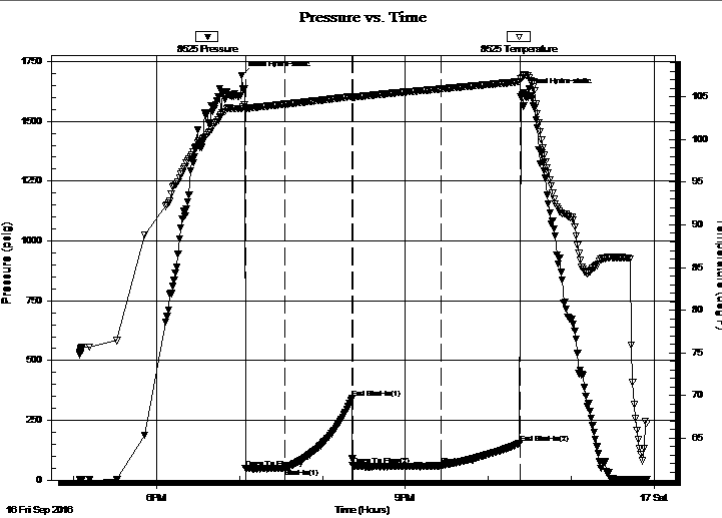
Start Time: 17:04:18 End Time: 23:54:47

Time On Btm: 2016.09.16 @ 19:01:32

Time Off Btm: 2016.09.16 @ 22:25:47

TEST COMMENT: IF: Fair Blow , Built to 9 1/2 inches
 IS: No Blow Back
 FF: Weak Blow Built to 4 inches
 FS: No Blow Back

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1692.33 | 103.64 | Initial Hydro-static |
| 3 | 49.38 | 103.61 | Open To Flow (1) |
| 32 | 49.71 | 104.13 | Shut-In(1) |
| 80 | 340.98 | 105.05 | End Shut-In(1) |
| 81 | 62.74 | 104.97 | Open To Flow (2) |
| 144 | 61.11 | 105.92 | Shut-In(2) |
| 202 | 154.43 | 106.79 | End Shut-In(2) |
| 205 | 1620.84 | 107.61 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 75.00 | SGCM 55G 95%M | 1.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

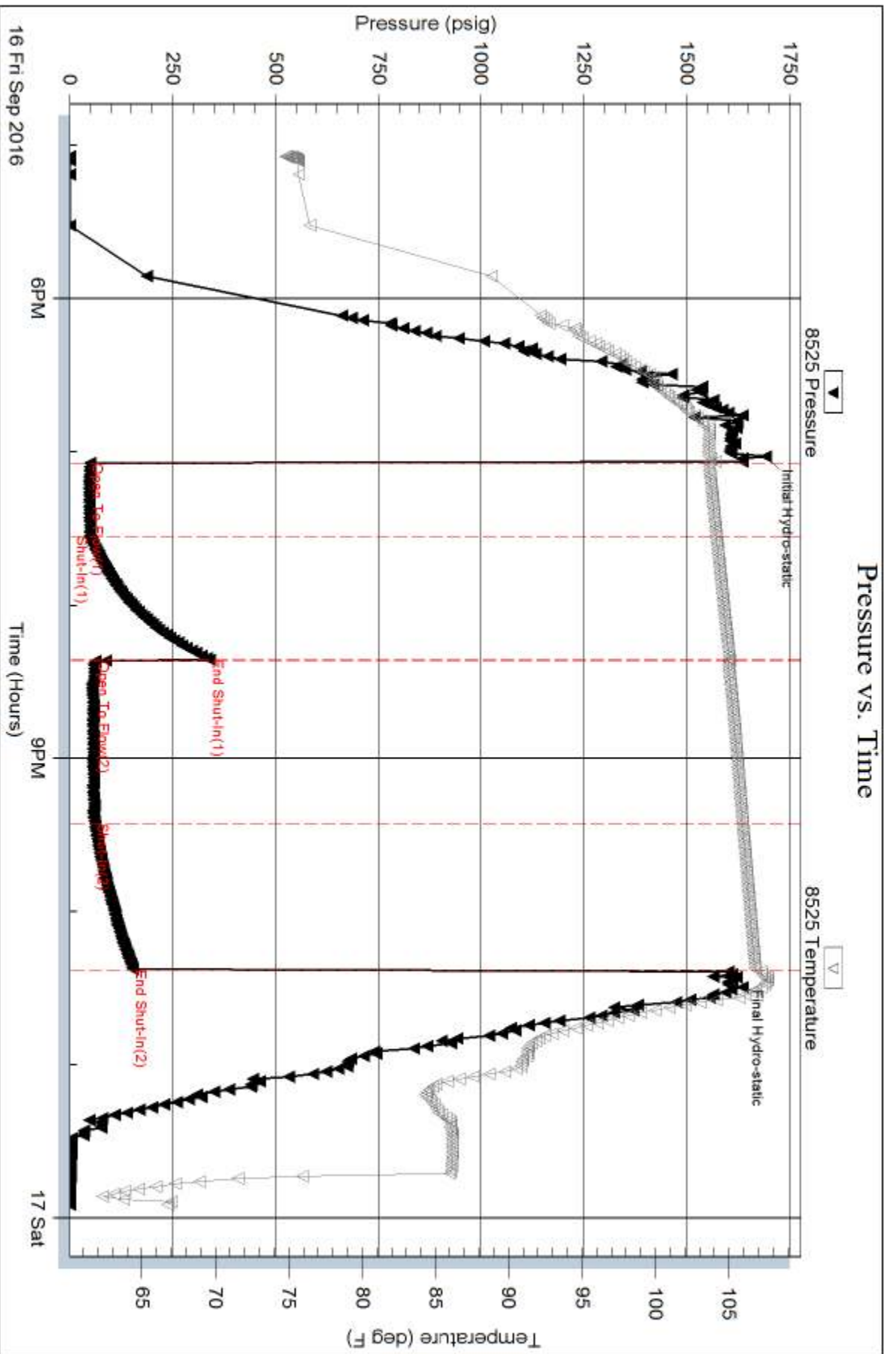
| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|--|----------------|-----------------|------------------|
| | | | |

Serial #: 8525

Inside Hutchinson Oil Co

Hitz 2

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 55414

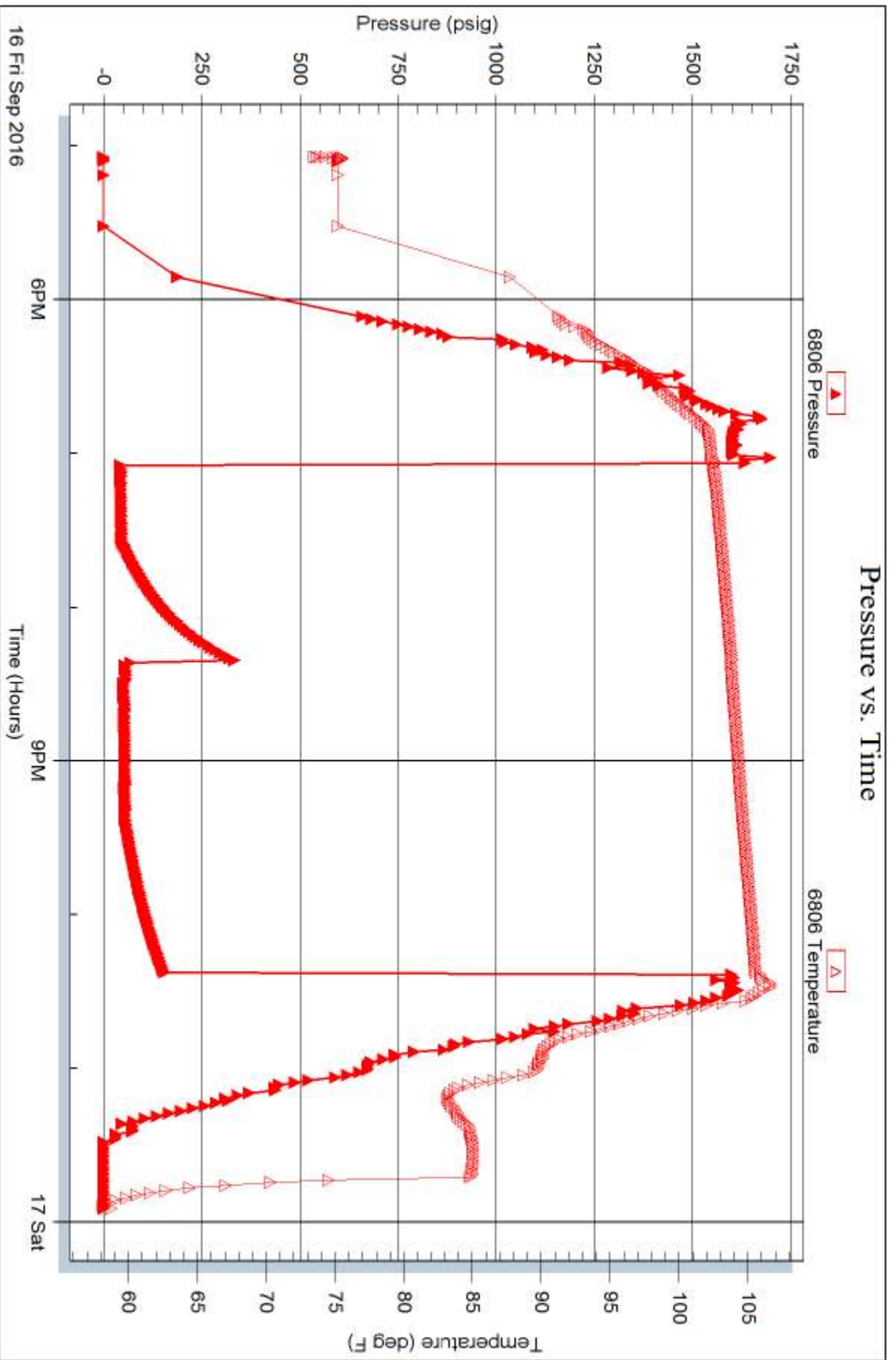
Printed: 2016.09.17 @ 07:37:48

Serial #: 6806

Outside Hutchinson Oil Co

Hitz 2

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hutchinson Oil Co
 PO Box 521
 Derby, KS 67037
 ATTN: Jeff Burk

5-23S-12W Stafford

Hitz 2

Job Ticket: 55416

DST#: 3

Test Start: 2016.09.18 @ 02:15:37

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:52:22
 Time Test Ended: 08:46:07
 Interval: **3481.00 ft (KB) To 3550.00 ft (KB) (TVD)**
 Total Depth: 3550.00 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: 1849.00 ft (KB)
 1844.00 ft (CF)
 KB to GR/CF: 5.00 ft

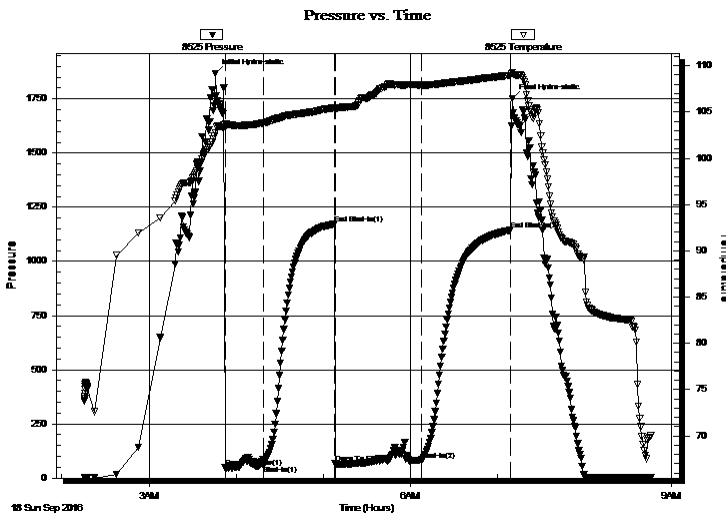
Serial #: 8525

Inside

Press @ Run Depth: 82.27 psig @ 3482.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.18 End Date: 2016.09.18 Last Calib.: 2016.09.18
 Start Time: 02:15:38 End Time: 08:46:07 Time On Btm: 2016.09.18 @ 03:45:37
 Time Off Btm: 2016.09.18 @ 07:10:22

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

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1868.14 | 102.77 | Initial Hydro-static |
| 7 | 48.03 | 103.35 | Open To Flow (1) |
| 34 | 60.48 | 103.81 | Shut-In(1) |
| 82 | 1172.58 | 105.46 | End Shut-In(1) |
| 83 | 66.50 | 105.23 | Open To Flow (2) |
| 142 | 82.27 | 107.91 | Shut-In(2) |
| 204 | 1144.44 | 108.96 | End Shut-In(2) |
| 205 | 1751.81 | 109.28 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 90.00 | VSOSM -1%O +99%M | 1.26 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hutchinson Oil Co

5-23S-12W Stafford

PO Box 521
Derby, KS 67037

Hitz 2

Job Ticket: 55416

DST#: 3

ATTN: Jeff Burk

Test Start: 2016.09.18 @ 02:15:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------|---------------|
| 90.00 | VSOSM-1%O +99%M | 1.262 |

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

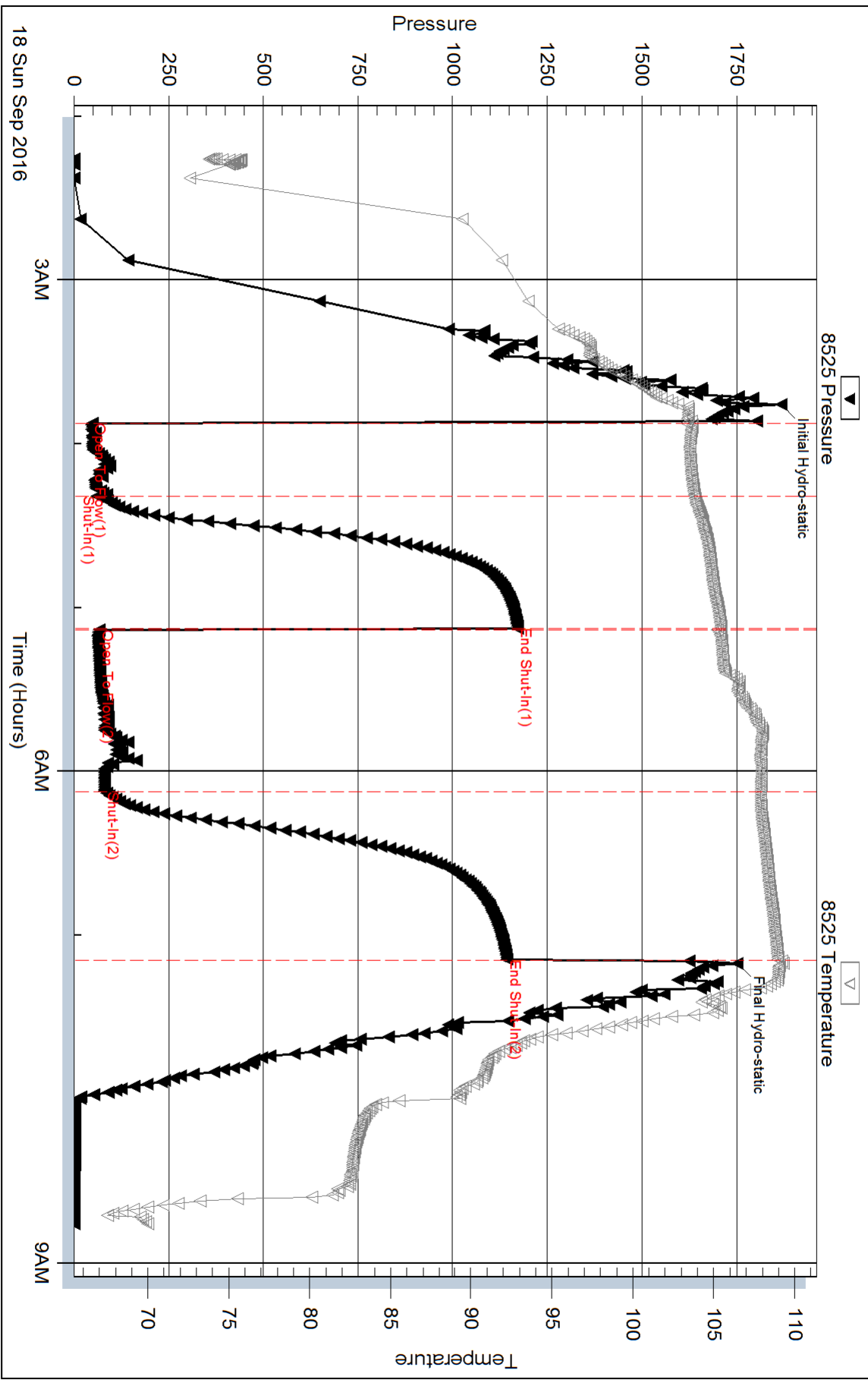
Serial #:

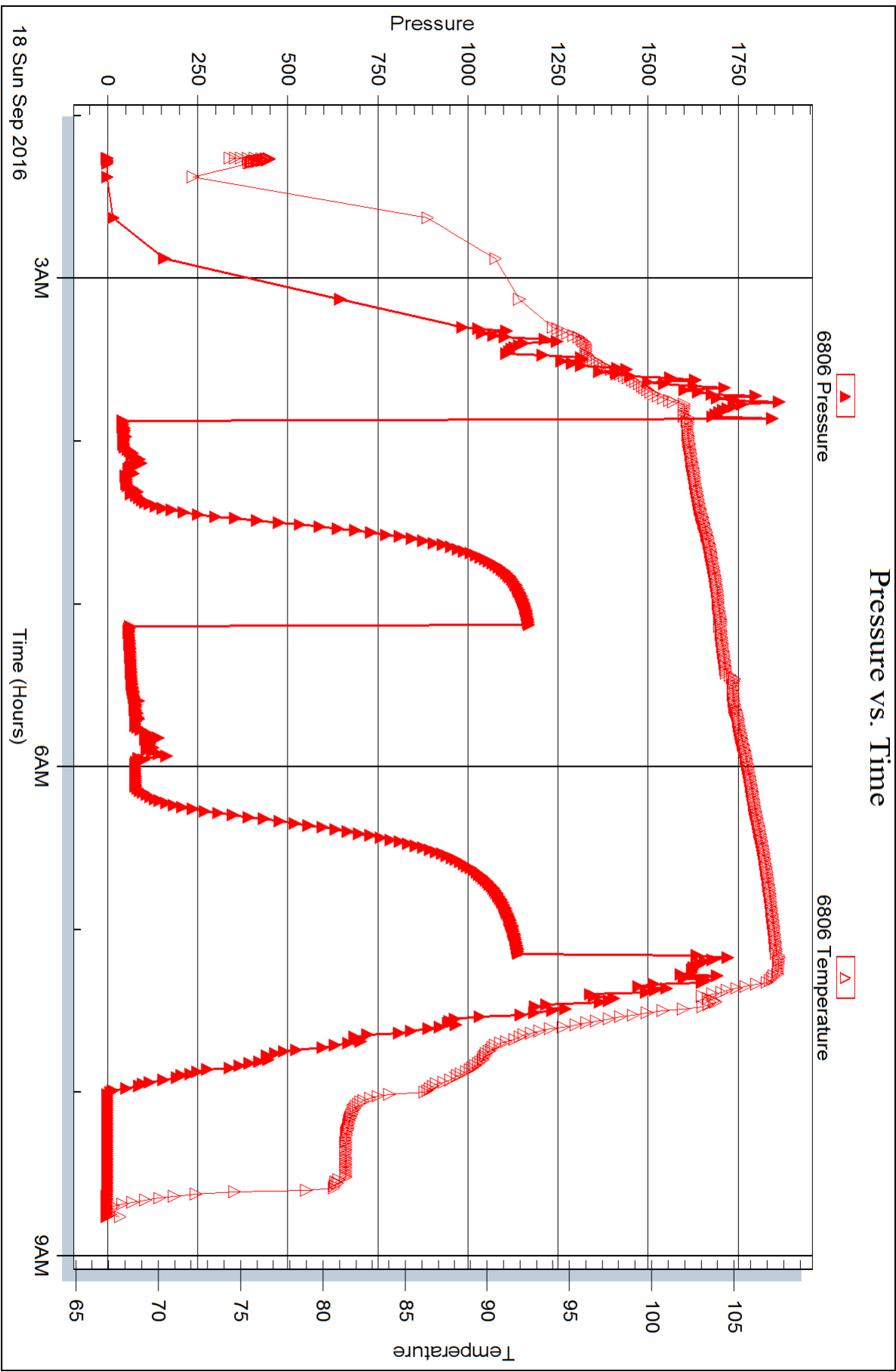
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Hutchinson Oil Co
PO Box 521
Derby, KS 67037
ATTN: Jeff Burk

5-23S-12W Stafford

Hitz 2

Job Ticket: 55417

DST#: 4

Test Start: 2016.09.19 @ 02:25:27

GENERAL INFORMATION:

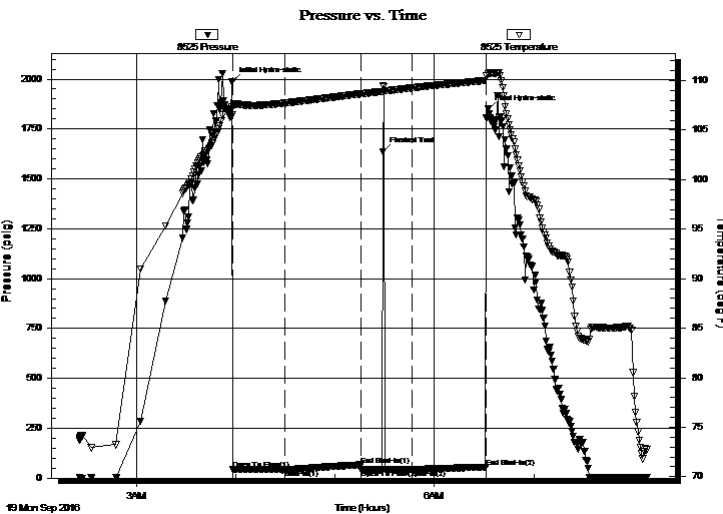
Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:57:57
 Time Test Ended: 08:08:42
 Interval: **3718.00 ft (KB) To 3750.00 ft (KB) (TVD)**
 Total Depth: 3750.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 1849.00 ft (KB)
 1844.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8525

Inside

Press@RunDepth: 41.87 psig @ 3719.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.19 End Date: 2016.09.19 Last Calib.: 2016.09.19
 Start Time: 02:25:28 End Time: 08:08:42 Time On Btm: 2016.09.19 @ 03:57:42
 Time Off Btm: 2016.09.19 @ 06:32:12

TEST COMMENT: IF: Weak 3 1/2 inch Blow
 IS: No Blow Back
 FF: Weak Surface Blow, Died Immediately, Flushed Tool, No Blow
 FS: No Blow Back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1988.47 | 107.33 | Initial Hydro-static |
| 1 | 42.23 | 106.56 | Open To Flow (1) |
| 32 | 41.77 | 107.73 | Shut-In(1) |
| 78 | 66.99 | 108.66 | End Shut-In(1) |
| 78 | 42.11 | 108.66 | Open To Flow (2) |
| 91 | 1636.58 | 109.47 | Flushed Tool |
| 109 | 41.87 | 109.27 | Shut-In(2) |
| 154 | 55.23 | 110.02 | End Shut-In(2) |
| 155 | 1849.42 | 110.70 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 30.00 | Mud | 0.42 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Hutchinson Oil Co

5-23S-12W Stafford

PO Box 521
Derby, KS 67037

Hitz 2

Job Ticket: 55417

DST#: 4

ATTN: Jeff Burk

Test Start: 2016.09.19 @ 02:25:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 30.00 | Mud | 0.421 |

Total Length: 30.00 ft Total Volume: 0.421 bbl

Num Fluid Samples: 0

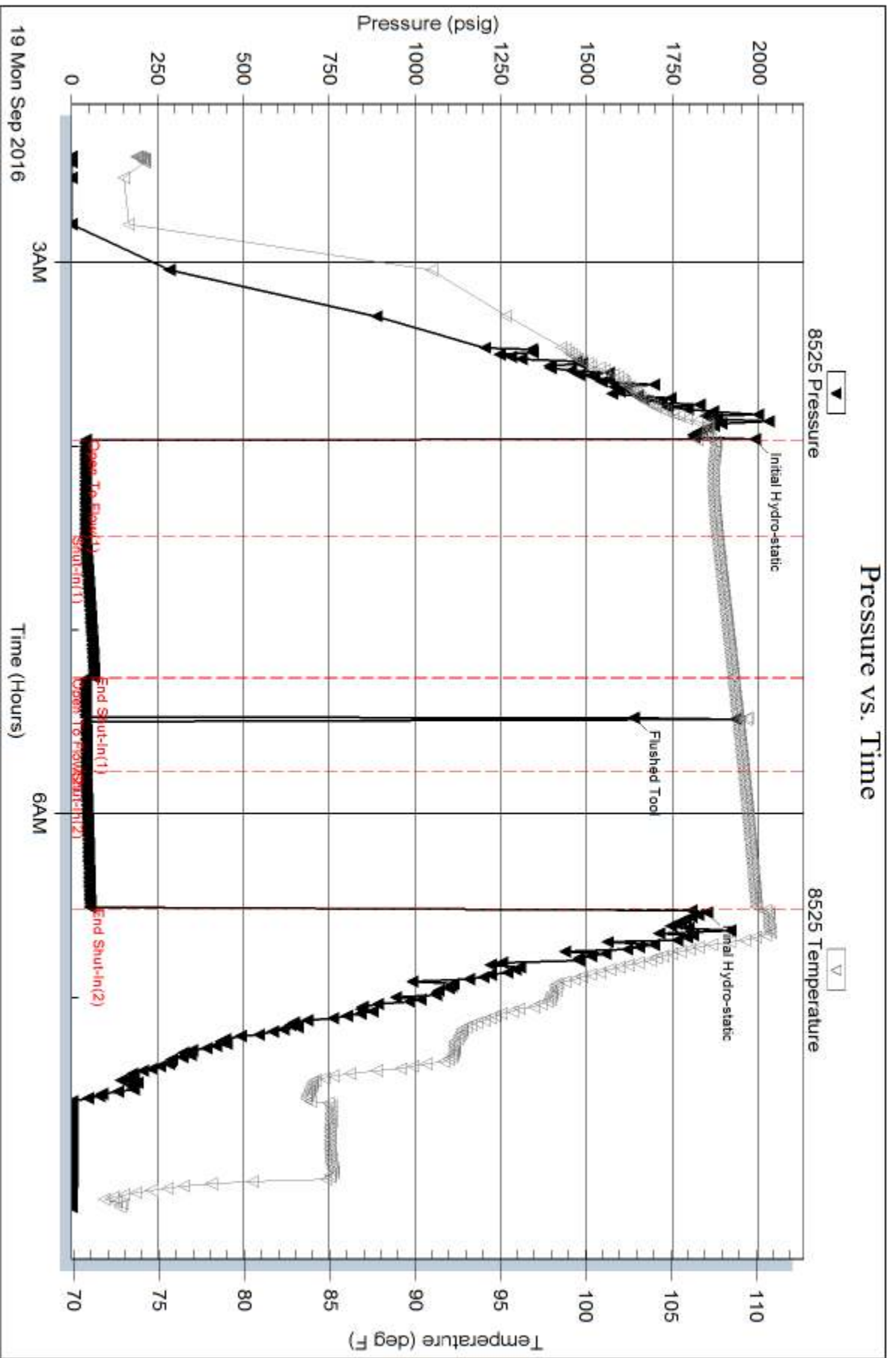
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

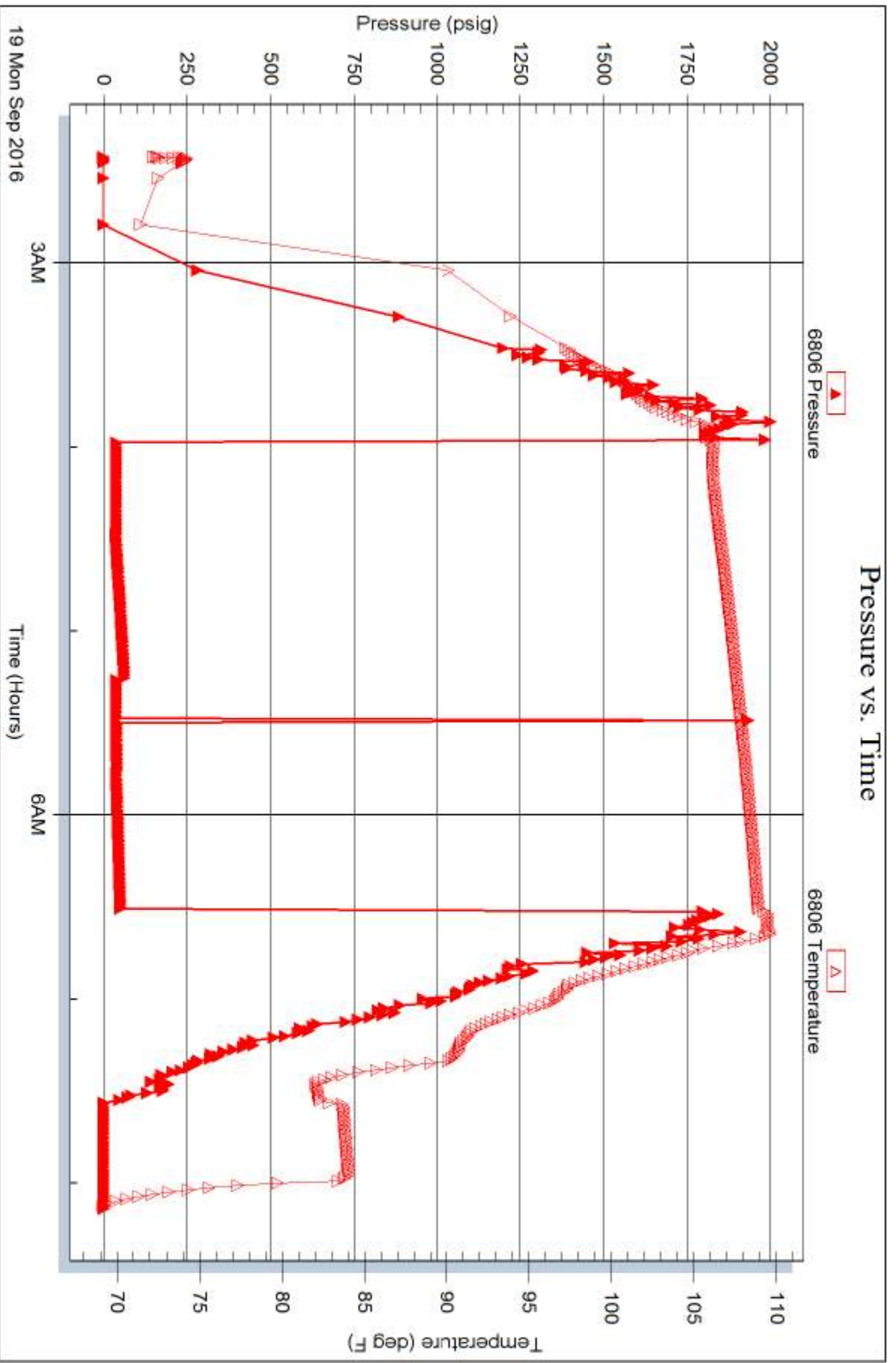


Serial #: 6806

Outside Hutchinson Oil Co

Hitz 2

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 55A17

Printed: 2016.09.19 @ 08:48:22



PETERRA ENERGY SERVICES CONSULTING FROM PROJECT TO PIPELINE

Scale 1:240 (5"=100') Imparts Measured Depth Log

Well Name: Hitz #2, API: 15-185-23965, Location: NE-NE-NW of Sec. 5-23s-12w, License Number: 5614, Spud Date: 9/12/2016, Surface Coordinates: Longitude: 98.6695154, Latitude: 38.0852980, Bottom Hole Coordinates: Same as surface coordinates, Ground Elevation (ft): 1844', K.B. Elevation (ft): 1849', Logged Interval (ft): 2600', To: 3830', Formation: Arbuckle, Type of Drilling Fluid: Chemical Drilling Mudco - Rick Hughes

OPERATOR

Company: Hutchinson Oil Co., Address: PO Box 521, Derby, KS 67037

GEOLOGIST

Name: Jeffrey A. Burk & Eil J. Felts, Company: PETERRA Energy Services, Address: 7701 E. Kellogg Drive, Suite #625, Wichita, KS 67607



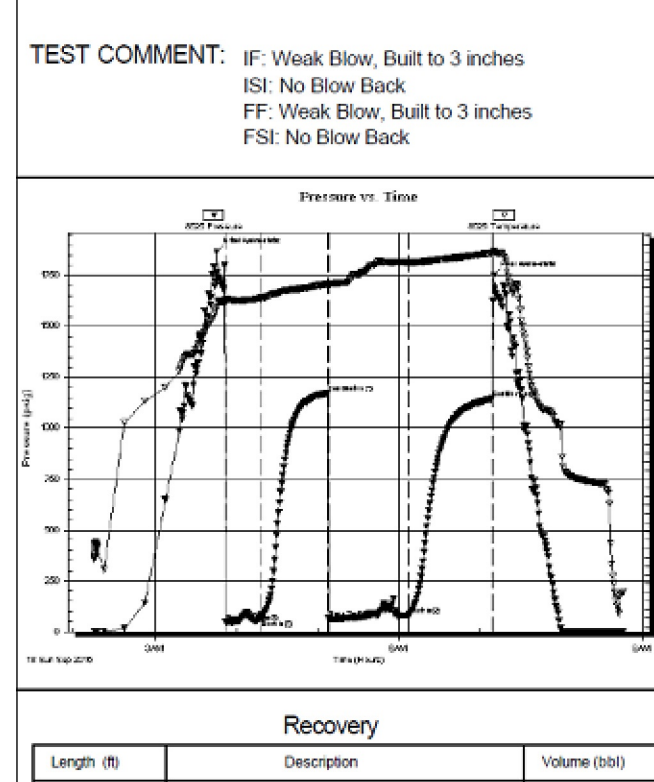
DRILL STEM TEST REPORT

Hutchinson Oil Co, 5-23S-12W Stafford, Hitz 2, Job Ticket: 55414, DST# 1, Test Start: 2016.09.16 @ 17:04:17

GENERAL INFORMATION: Formation: Upper KC, Deviated: No, Whipslock: ft (KB), Time Top Opened: 19:04:17, Time Test Ended: 23:54:47, Interval: 3860.00 ft (KB) To 3402.00 ft (KB) (TVD), Total Depth: 3402.00 ft (KB) (TVD), Hole Diameter: 7.88 inches/Hole Condition: Good, Reference Elevations: 1844.00 ft (KB), 1844.00 ft (CF), KB to GR/CF: 5.00 ft

Serial #: 8525, Inside, Press/RunDepth: 61.11 psig @ 3361.00 ft (KB), Start Date: 2016.09.16, End Date: 2016.16, Start Time: 17:04:17, End Time: 23:54:47, Capacity: 8000.00 psig, Last Calc: 2016.09.16 @ 19:01:31, Time On Btm: 2016.09.16 @ 22:25:47, Time Off Btm: 2016.09.16 @ 22:25:47

TEST COMMENT: IF: Fair Blow, Built in 9 1/2 inches, ISI: No Blow Back, FF: Weak Blow, Built to 4 inches, FSI: No Blow Back



PRESSURE SUMMARY table with columns: Time (Min.), Pressure (psig), Temp (deg F), Annotation. Rows include initial hydro-static, open to flow, shut-in, and final hydro-static points.

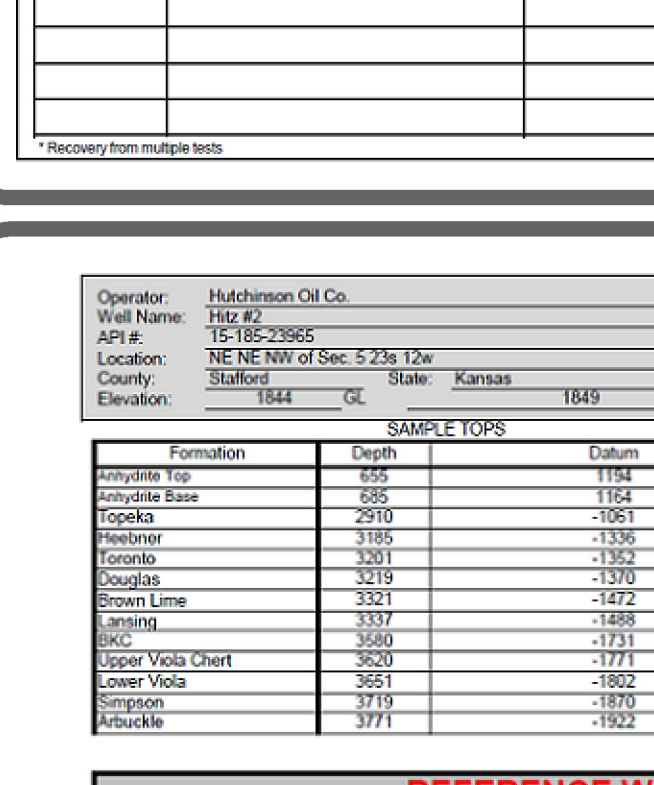
Recovery table with columns: Length (ft), Description, Volume (bbl). Includes SGCM 55G 959M and 17.05 bbl.

Gas Rates table with columns: Core (inches), Pressure (psig), Gas Rate (Mcf/d).

GENERAL INFORMATION: Formation: Lansing, Deviated: No, Whipslock: ft (KB), Time Top Opened: 08:36:35, Time Test Ended: 13:32:20, Interval: 3400.00 ft (KB) To 3425.00 ft (KB) (TVD), Total Depth: 3425.00 ft (KB) (TVD), Hole Diameter: 7.88 inches/Hole Condition: Good, Reference Elevations: 1849.00 ft (KB), 1844.00 ft (CF), KB to GR/CF: 5.00 ft

Serial #: 8525, Inside, Press/RunDepth: 167.14 psig @ 3401.00 ft (KB), Start Date: 2016.09.17, End Date: 2016.16, Start Time: 08:51:20, End Time: 13:32:20, Capacity: 8000.00 psig, Last Calc: 2016.09.17 @ 08:36:20, Time On Btm: 2016.09.17 @ 08:36:20, Time Off Btm: 2016.09.17 @ 11:53:50

TEST COMMENT: IF: Fair Blow, BOB in 22 minutes, ISI: No Blow Back, FF: Fair Blow, BOB in 27 minutes, FSI: No Blow Back



PRESSURE SUMMARY table for Lansing formation test.

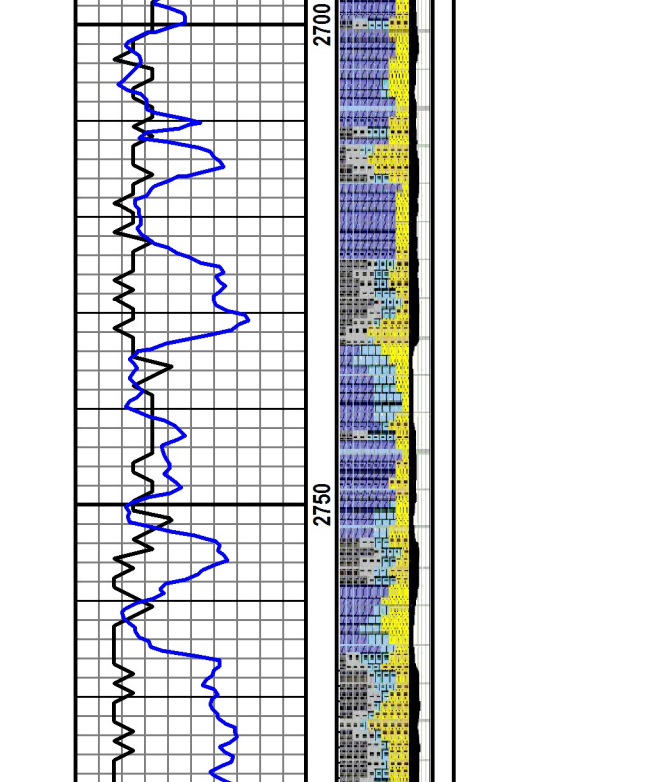
Recovery table for Lansing formation test.

Gas Rates table for Lansing formation test.

GENERAL INFORMATION: Formation: KC, Deviated: No, Whipslock: ft (KB), Time Top Opened: 03:52:22, Time Test Ended: 08:46:07, Interval: 3481.00 ft (KB) To 3550.00 ft (KB) (TVD), Total Depth: 3550.00 ft (KB) (TVD), Hole Diameter: 7.88 inches/Hole Condition: Good, Reference Elevations: 1849.00 ft (KB), 1844.00 ft (CF), KB to GR/CF: 5.00 ft

Serial #: 8525, Inside, Press/RunDepth: 82.27 psig @ 3482.00 ft (KB), Start Date: 2016.09.18, End Date: 2016.09.18, Start Time: 02:15:37, End Time: 08:46:07, Capacity: 8000.00 psig, Last Calc: 2016.09.18 @ 03:52:37, Time On Btm: 2016.09.18 @ 03:52:37, Time Off Btm: 2016.09.18 @ 07:10:22

TEST COMMENT: IF: Weak Blow, Built to 3 inches, ISI: No Blow Back, FF: Weak Surface Blow, Died Immediately, Flushed Tool, No Blow, FSI: No Blow Back



PRESSURE SUMMARY table for KC formation test.

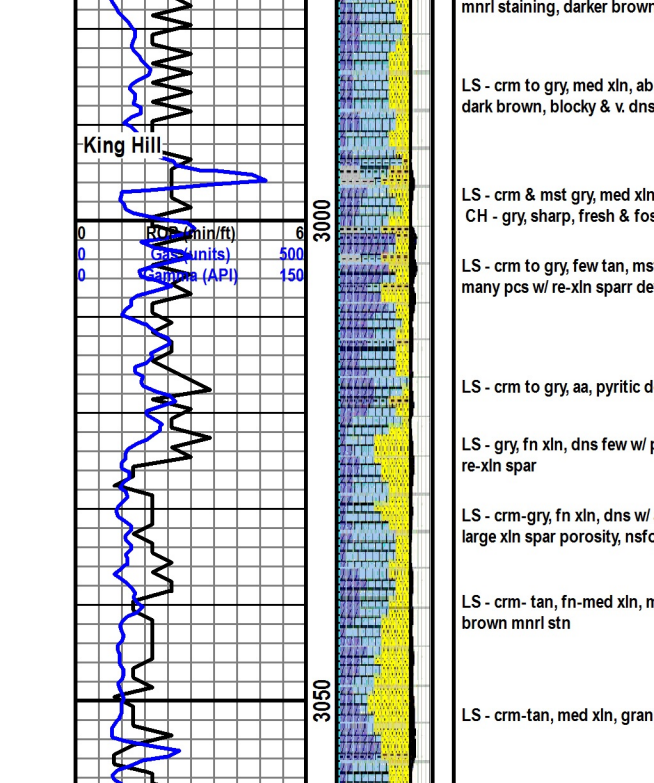
Recovery table for KC formation test.

Gas Rates table for KC formation test.

GENERAL INFORMATION: Formation: Simpson, Deviated: No, Whipslock: ft (KB), Time Top Opened: 03:57:57, Time Test Ended: 08:08:42, Interval: 3718.00 ft (KB) To 3760.00 ft (KB) (TVD), Total Depth: 3750.00 ft (KB) (TVD), Hole Diameter: 7.88 inches/Hole Condition: Good, Reference Elevations: 1849.00 ft (KB), 1844.00 ft (CF), KB to GR/CF: 5.00 ft

Serial #: 8525, Inside, Press/RunDepth: 41.67 psig @ 3719.00 ft (KB), Start Date: 2016.09.19, End Date: 2016.09.19, Start Time: 02:25:27, End Time: 08:08:42, Capacity: 8000.00 psig, Last Calc: 2016.09.19 @ 03:57:42, Time On Btm: 2016.09.19 @ 03:57:42, Time Off Btm: 2016.09.19 @ 06:32:12

TEST COMMENT: IF: Weak 3 1/2 inch Blow, ISI: No Blow Back, FF: Weak Surface Blow, Died Immediately, Flushed Tool, No Blow, FSI: No Blow Back

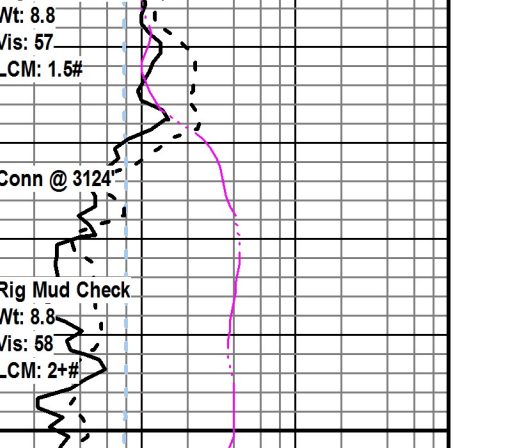


PRESSURE SUMMARY table for Simpson formation test.

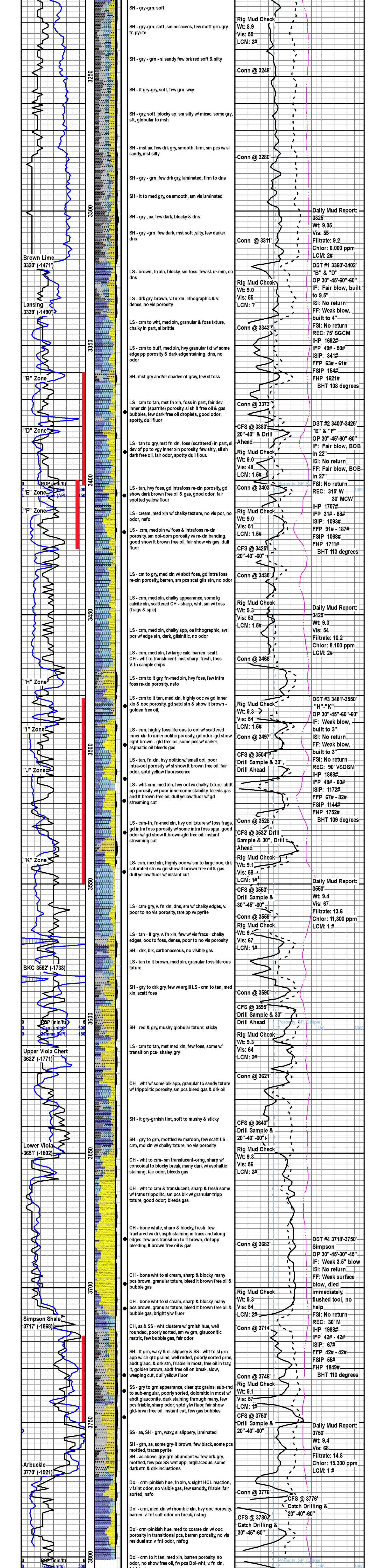
Recovery table for Simpson formation test.

Gas Rates table for Simpson formation test.

REFERENCE WELLS E-LOG TOPS table with columns for Formation, Well Name, and Elevation (ft).



Legend table for lithology, porosity, and SP/Caliper logs.



Additional notes and data points at the bottom of the log plot.

| | | |
|--|------------------------------|-------------------------------------|
| Customer <i>HUTCHINSON OIL</i> | Lease No. | Date <i>9/20/16</i> |
| Lease <i>HITZ</i> | Well # <i>2</i> | |
| Field Order # <i>14112</i> | Station <i>PRAT</i> | Casing <i>8 7/8</i> |
| | | Depth |
| Type Job <i>PLUG TO ABANDON - CNW</i> | Formation <i>ARBUCKLE</i> | County <i>STAFFORD</i> |
| | | State <i>KS</i> |
| | | Legal Description <i>5/23/12</i> |

| PIPE DATA | | PERFORATING DATA | | FLUID USED | | TREATMENT RESUME | | |
|-----------------|--------------|------------------|----|------------|------------|------------------|------------|------------------|
| Casing Size | Tubing Size | Shots/Ft | | Acid | RATE | PRESS | ISIP | |
| Depth | Depth | From | To | Pre Pad | Max | <i>4</i> | <i>350</i> | 5 Min. |
| Volume | Volume | From | To | Pad | Min | <i>2</i> | <i>50</i> | 10 Min. |
| Max Press | Max Press | From | To | Frac | Avg | | | 15 Min. |
| Well Connection | Annulus Vol. | From | To | | HHP Used | | | Annulus Pressure |
| Plug Depth | Packer Depth | From | To | Flush | Gas Volume | | | Total Load |

| | | |
|---|-----------------------------------|---------------------------|
| Customer Representative | Station Manager <i>KEVIN G</i> | Treater <i>KEVIN B</i> |
| Service Units <i>19903 20920 19889 19910 70162</i> | | |
| Driver Names <i>KEVIN G - DAREN F - KEVIN</i> | | |

| Time | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log |
|-------------|-----------------|-----------------|---------------|--------------|---|
| <i>3:45</i> | | | | | <i>ON LOCATION - REG UP - SAFETY ME</i> |
| <i>5:00</i> | <i>300</i> | | | <i>3 1/2</i> | <i>50 SK @ 3771' - START WATER</i> |
| | <i>350</i> | | <i>8 1/2</i> | <i>4</i> | <i>WATER IN - START CEMENT</i> |
| | <i>350</i> | | <i>21 1/4</i> | <i>4</i> | <i>CEMENT IN - START WATER</i> |
| | <i>300</i> | | <i>24 1/4</i> | <i>4</i> | <i>WATER IN - START MUD</i> |
| <i>5:25</i> | <i>-</i> | | <i>69 1/4</i> | <i>3 1/2</i> | <i>MUD IN - STOP PUMP</i> |
| <i>8:00</i> | <i>100</i> | | | <i>3</i> | <i>50 SK @ 680' - START WATER</i> |
| | <i>100</i> | | <i>8 1/2</i> | <i>3 1/2</i> | <i>WATER IN - START CEMENT</i> |
| | <i>100</i> | | <i>21 1/4</i> | <i>3 1/2</i> | <i>CEMENT IN - START WATER</i> |
| | <i>100</i> | | <i>24 1/4</i> | <i>3 1/2</i> | <i>WATER IN - START MUD</i> |
| <i>8:15</i> | <i>100</i> | | <i>27 1/4</i> | <i>3</i> | <i>MUD IN - STOP PUMP</i> |
| | <i>100</i> | | | <i>3</i> | <i>50 SK @ 420' - START WATER</i> |
| | <i>100</i> | | <i>8 1/2</i> | <i>3</i> | <i>WATER IN - START CEMENT</i> |
| | <i>100</i> | | <i>21 1/4</i> | <i>3</i> | <i>CEMENT IN - START WATER</i> |
| | <i>100</i> | | <i>21 1/4</i> | <i>2</i> | <i>WATER IN - STOP PUMP</i> |
| | <i>50</i> | | <i>7 1/2</i> | <i>3</i> | <i>30 SK @ 210'</i> |
| | <i>50</i> | | <i>5</i> | <i>2</i> | <i>20 SK @ 60'</i> |
| <i>9:30</i> | <i>50</i> | | <i>7 1/2</i> | <i>2</i> | <i>30 SK - RAT HOLE</i> |