

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)</i> <i>(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  | Mai Oil Operations, Inc. |
| Well Name | STEINLE 1                |
| Doc ID    | 1328970                  |

All Electric Logs Run

|       |
|-------|
|       |
| CDNL  |
| DIL   |
| Micro |
| Sonic |

|           |                          |
|-----------|--------------------------|
| Form      | ACO1 - Well Completion   |
| Operator  | Mai Oil Operations, Inc. |
| Well Name | STEINLE 1                |
| Doc ID    | 1328970                  |

Tops

| Name             | Top  | Datum |
|------------------|------|-------|
| Anhydrite        | 931  | +965  |
| Tarkio Lime      | 2519 | -623  |
| Topeka           | 2773 | --877 |
| Heebner          | 2996 | -1100 |
| Toronto          | 3015 | -1119 |
| Lansing          | 3050 | -1154 |
| Base Kansas City | 3253 | -1357 |
| Gorham Sand      | 3304 | -1408 |
| Reagan Sand      | 3340 | -1444 |
| Granite Wash     | 3370 | -1474 |



**JAMES C. MUSGROVE**

Petroleum Geologist, LLC  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations  
Steinle #1  
SW-NE-NW-NW (510' FNL & 690 FWL)  
Section 2-14s-15w  
Russell County, Kansas

Page 1

**5 1/2" Production Casing Set**

**Contractor:** Southwind Drilling Co. (rig #3)  
**Commenced:** October 28, 2016  
**Completed:** November 5, 2016  
**Elevation:** 1896' K.B., 1894' D.F., 1888' G.L.  
**Casing program:** Surface; 8 5/8" @ 933'  
Production, 5 1/2" @ 3388'  
**Sample:** Samples saved and examined 2300' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2300' to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were seven (7) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Eli Wireline Services, Dual Induction, Compensated Density/Neutron Log and Micro & Sonic Log

| <u>Formation</u>       | <u>Log Depth</u> | <u>Sub-Sea Datum</u> |
|------------------------|------------------|----------------------|
| Anhydrite              | 931              | +965                 |
| Base Anhydrite         | 967              | +929                 |
| Grand Haven            | 2447             | -551                 |
| 1 <sup>st</sup> Tarkio | 2458             | -562                 |
| Dover                  | 2476             | -580                 |
| 2 <sup>nd</sup> Tarkio | 2481             | -585                 |
| Tarkio Lime            | 2519             | -623                 |
| Willard Shale          | 2540             | -644                 |
| Elmont                 | 2573             | -677                 |
| Howard                 | 2713             | -817                 |
| Topeka                 | 2773             | -877                 |
| Heebner                | 2996             | -1100                |
| Toronto                | 3015             | -1119                |
| Lansing                | 3050             | -1154                |
| Base Kansas City       | 3253             | -1357                |
| Gorham Sand            | 3304             | -1408                |
| Reagan Sand            | 3340             | -1444                |
| Granite Wash           | 3370             | -1474                |
| Rotary Total Depth     | 3390             | -1494                |
| Log Total Depth        | 3391             | -1495                |

(All tops and zones corrected to Electric Log Measurement)

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**1<sup>st</sup> TARKIO SAND**

2457-2465' Sand; white, tan, very fine grained; sub-rounded, friable; poor porosity, no shows.

**2<sup>nd</sup> TARKIO SAND**

2481-2491' Sand, white, tan, very fine grained; sub-rounded; friable, fair intergranular porosity; few calcareous, good stain and saturation, show of free oil, fair to good odor in fresh samples.

**Drill Stem Test #1** **2478-2524**

Times: 30-30-45-60

Blow: Strong

Recovery: 310' water

Pressures: ISIP 778 psi  
FSIP 779 psi  
IFP 28-86 psi  
FFP 94-166 psi  
HSH 1164-1147 psi

**TARKIO LIME**

2519-2526' Limestone, white/gray, cream, slightly cherty, few fossiliferous, dense, poor porosity; questionable brown discoloration, no show of free oil and no odor in fresh samples.

**TOPEKA SECTION**

2773-2780' Limestone, white, gray, chalky, poor pinpoint type porosity; trace brown stain, weak show of free oil and good odor in fresh samples.

2790-2800' Limestone, as above, poor visible porosity.

**Drill Stem Test #2** **2757-2804**

Times: 30-30-30-45

Blow: Weak

Recovery: 50' gas in pipe  
10' very slightly oil cut mud  
(2% oil; 98% mud)

Pressures: ISIP 83 psi  
FSIP 110 psi  
IFP 16-18 psi  
FFP 16-20 psi  
HSH 1333-1317 psi

- 2867-2874' Limestone, tan, chalky, questionable brown stain, no show of free oil and faint odor in fresh samples.
- 2952-2966' Limestone, gray, cream, granular, slightly chalky, scattered porosity, brown stain and saturation, show of free oil and good odor in fresh samples.

**Drill Stem Test #3 2930-2970**

**Times:** 30-30-30-30

**Blow:** Weak

**Recovery:** 70' watery mud; show of oil  
10' very slightly oil cut mud  
(2% oil; 98% mud)

**Pressures:** ISIP 857 psi  
FSIP 834 psi  
IFP 21-37 psi  
FFP 46-62 psi  
HSH 1423-1401 psi

**TORONTO SECTION**

- 3015-3021' Limestone, white/cream, chalky, poor porosity, black/brown stain, no free oil and no odor in fresh samples.

**LANSING SECTION**

- 3050-3060' Limestone, tan, finely crystalline, few fossiliferous, pinpoint porosity, chalky, brown stain, no show of free oil and good odor in fresh samples.
- 3071-3079' Limestone, gray, white, cream, finely crystalline, oolitic, sub-oomoldic, fair oomoldic porosity, brown stain, show of free oil and good odor in fresh samples.

**Drill Stem Test #4 3053-3086**

**Times:** 30-30-45-60

**Blow:** Weak to fair

**Recovery:** 270' gas in pipe  
40' oil and gas cut mud  
(10% gas; 15% oil; 75% mud)

**Pressures:** ISIP 757 psi  
FSIP 810 psi  
IFP 27-27 psi  
FFP 28-38 psi  
HSH 1483-1463 psi

- 3091-3096' Limestone, tan, oomoldic, good oomoldic porosity; brown stain and saturating good show of free oil and good odor in fresh samples.



**Drill Stem Test #5** **3082-3106**

**Times:** 45-30-45-60

**Blow:** Weak

**Recovery:** 70' gas in pipe  
 50' very slightly oil cut muddy water  
 (1% gas; 40% water; 59% mud)

**Pressures:** ISIP 807 psi  
 FSIP 809 psi  
 IFP 17-29 psi  
 FFP 33-46 psi  
 HSH 1501-1487 psi

3121-3125' Limestone, white, gray, slightly fossiliferous, poor visible porosity, trace brown stain, no show of free oil and no odor.

3129-3137' Limestone, gray, white; oomoldic, good oomoldic porosity, brown stain, show of free oil and faint odor in fresh samples.

**Drill Stem Test #6** **3053-3086**

**Times:** 30-30-45-60

**Blow:** Fair

**Recovery:** 355' gas in pipe  
 1' clean oil  
 75' oil and gas cut mud  
 (10% gas; 30% oil; 60% mud)

**Pressures:** ISIP 859 psi  
 FSIP 884 psi  
 IFP 22-34 psi  
 FFP 43-53 psi  
 HSH 1508-1493 psi

3138-3152' Limestone, gray, white oomoldic, fair to good oomoldic porosity, trace brown stain, no free oil and no odor in fresh samples.

3164-3170' Limestone, gray, white, sub-oomoldic/oomoldic, chalky, no shows.

3188-3200' Limestone, tan, slightly fossiliferous, slightly cherty, dense.

3211-3220' Limestone, white, oolitic, fair porosity, chalky in part; fair stain and saturation, trace of free oil and no odor in fresh samples.

3228-3234' Limestone, white, gray, fossiliferous, chalky, poor visible porosity, trace brown stain, no show of free oil or odor in fresh samples.

3265-3270' Limestone, cream, white, sub-oomoldic, chalky, trace poor stain, no show of free oil and no odor in fresh samples.

**GORHAM SAND**

3304-3307' Sand, clear, quartzitic, sub-rounded, few angular, fair sorting, fair stain and saturation, show of free oil and fair odor in fresh samples.

**Drill Stem Test #7** **3259-3307**

**Times:** 30-30-45-60

**Blow:** Weak

**Recovery:** 75' gas in pipe  
45' muddy gassy oil  
(10% gas; 50% oil; 40% mud)

**Pressures:** ISIP 1085 psi  
FSIP 1090 psi  
IFP 22-27 psi  
FFP 30-38 psi  
HSH 1607-1534 psi

3307-3320' Sand, very fine grained; quartzitic, rounded, good sorting, friable, fair to good intergranular porosity, good stain and saturation, good show of free oil and good odor in fresh samples.

3320-3330' Sand, as above, good stain and saturation, good show of free oil and good odor in fresh samples.

3330-3340' Sand, as above, abundant iron pyrite and large sub-rounded, quartz grains.

**REAGAN SAND**

3340-3350' Sand, clear, quartzitic, sub-rounded; friable, fair intergranular porosity, fair stain and saturation, good show of free oil and good odor in fresh samples.

3350-3370' Sand, as above, white, clear, quartzitic, sub-rounded, friable, brown stain and saturation, show of free oil and odor in fresh samples.

**GRANITE WASH**

3370-3390' Abundant loose unconsolidated quartz grains; with maroon; red, green shale, trace of pink rounded feldspar grains; and weathered, pink to orange feldspar, trace of sand, white, gray, micaceous, no shows.

Mai Oil Operations  
Steinle #1  
SW-NE-NW-NW (510' FNL & 690 FWL)  
Section 2-14s-15w  
Russell County, Kansas

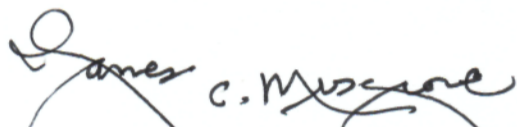
Page 6

**Rotary Total Depth            3390**  
**Log Total Depth                3391**

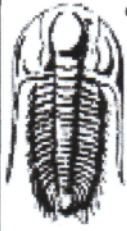
**Recommendations:**

The 5 ½" production casing was set and cemented on Mai Oil Operations Inc., Steinle #1.

Respectfully yours,

  
James C. Musgrove  
Petroleum Geologist





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Mai Oil Operations Inc  
8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520  
ATTN: Kurt Mai, Jim Musgro

**2-14s-15w Russell,KS**

**Steinle #1**

Job Ticket: 63530

DST#: 1

Test Start: 2016.10.31 @ 16:45:13

### GENERAL INFORMATION:

Formation: **Tarkio Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:11:23

Time Test Ended: 22:16:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 77

Interval: **2478.00 ft (KB) To 2524.00 ft (KB) (TVD)**

Total Depth: 2524.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1896.00 ft (KB)

1888.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8018**

**Inside**

Press@RunDepth: 166.72 psig @ 2488.00 ft (KB)

Start Date: 2016.10.31

End Date:

2016.10.31

Capacity: 8000.00 psig

Last Calib.: 2016.10.31

Start Time: 16:45:13

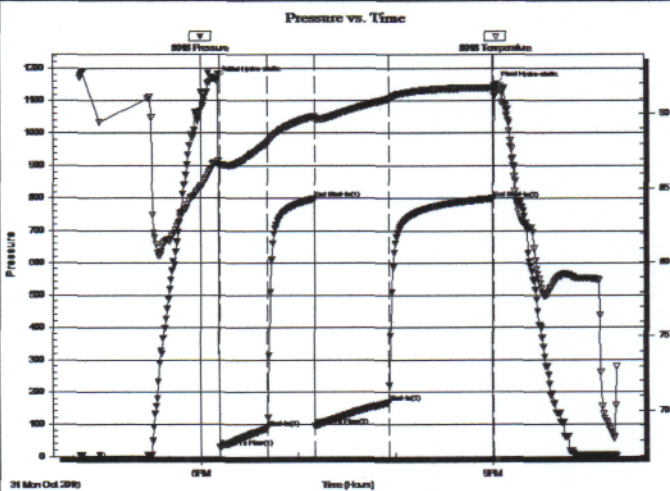
End Time:

22:16:52

Time On Btm: 2016.10.31 @ 18:09:38

Time Off Btm: 2016.10.31 @ 21:01:52

TEST COMMENT: 30-IFP-w k to strg in 18 min  
30-ISIP-no bl bk  
45-FFP-w k to strg in 27 min  
60-FSIP-no bl bk



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1164.32         | 86.72        | Initial Hydro-static |
| 2           | 28.45           | 86.56        | Open To Flow (1)     |
| 32          | 86.54           | 88.05        | Shut-in(1)           |
| 61          | 798.45          | 89.81        | End Shut-in(1)       |
| 61          | 94.01           | 89.59        | Open To Flow (2)     |
| 107         | 166.72          | 90.97        | Shut-in(2)           |
| 171         | 799.99          | 91.72        | End Shut-in(2)       |
| 173         | 1147.05         | 91.68        | Final Hydro-static   |

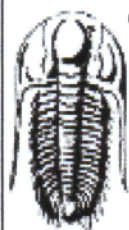
### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 310.00      | Water       | 4.35         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800

**Steinle #1**

Dallas TX 75225-5520

Job Ticket: 63530

**DST#: 1**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.10.31 @ 16:45:13

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 2482.00 ft | Diameter: 3.80 inches | Volume: 34.82 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 35000.00 lb  |
|                           |                    |                       | <u>Total Volume: 34.82 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 25.00 ft           |                       |                                | String Weight: Initial 29000.00 lb |
| Depth to Top Packer:      | 2478.00 ft         |                       |                                | Final 29000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 46.00 ft           |                       |                                |                                    |
| Tool Length:              | 67.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

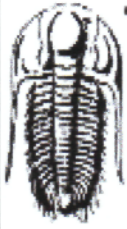
Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 2458.00    |                               |
| Shut In Tool     | 5.00        |            |          | 2463.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 2468.00    |                               |
| Packer           | 5.00        |            |          | 2473.00    | 21.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 2478.00    |                               |
| Change Over Sub  | 1.00        |            |          | 2479.00    |                               |
| Perforations     | 9.00        |            |          | 2488.00    |                               |
| Recorder         | 0.00        | 8018       | Inside   | 2488.00    |                               |
| Recorder         | 0.00        | 8700       | Outside  | 2488.00    |                               |
| Blank Spacing    | 33.00       |            |          | 2521.00    |                               |
| Bullnose         | 3.00        |            |          | 2524.00    | 46.00 Bottom Packers & Anchor |

**Total Tool Length: 67.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63530

**DST#: 1**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.10.31 @ 16:45:13

**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: | 101000 ppm |
| Viscosity: 65.00 sec/qt          | Cushion Volume: bbl        |                 |            |
| Water Loss: 7.09 in <sup>3</sup> | Gas Cushion Type:          |                 |            |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |            |
| Salinity: 800.00 ppm             |                            |                 |            |
| Filter Cake: 1.00 inches         |                            |                 |            |

**Recovery Information**

Recovery Table

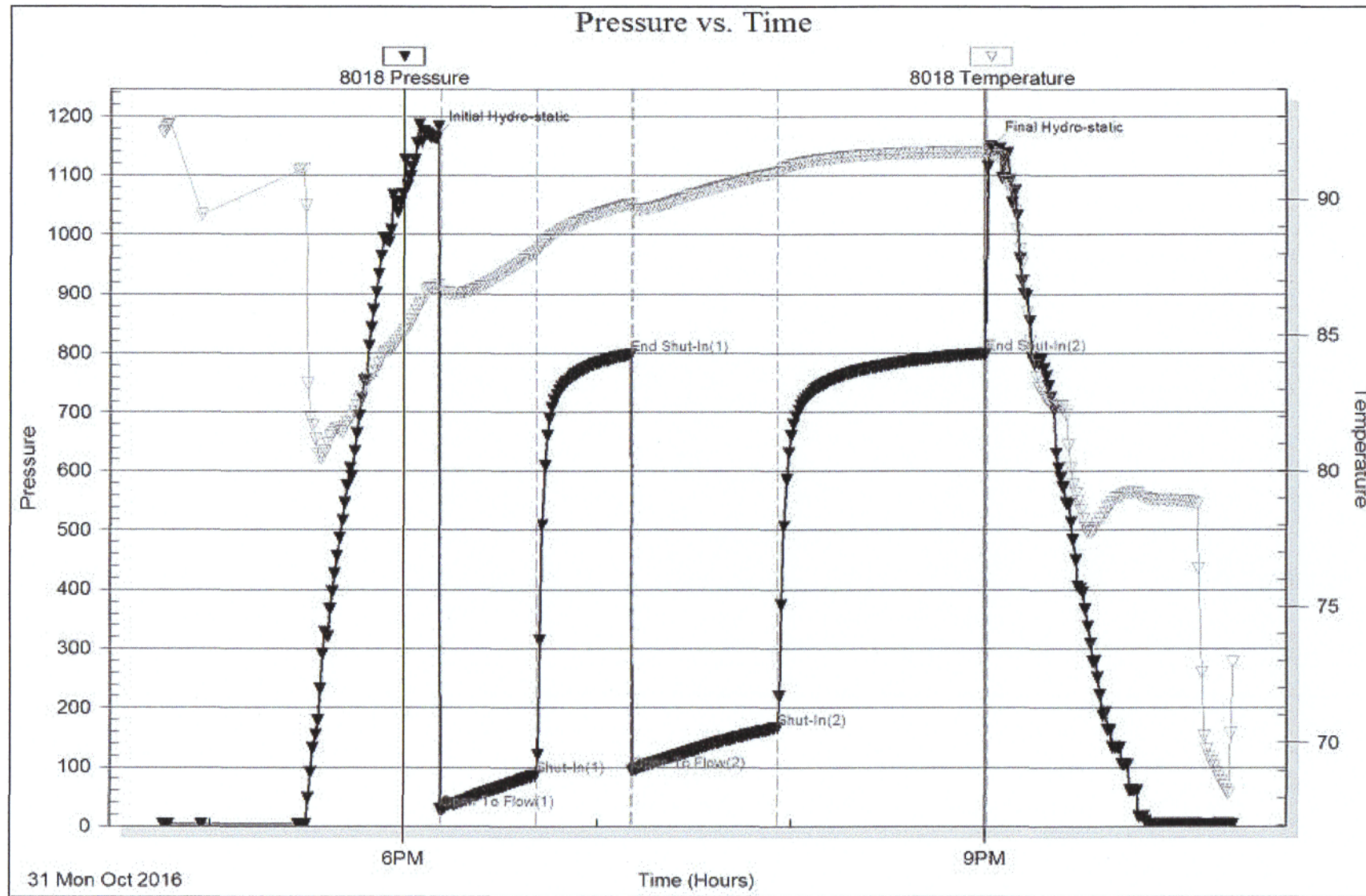
| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 310.00       | Water       | 4.348         |

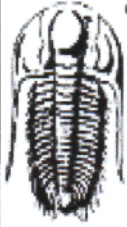
Total Length: 310.00 ft      Total Volume: 4.348 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .07@75F





**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd  
 Ste 800  
 Dallas TX 75225-5520  
 ATTN: Kurt Mai, Jim Musgro

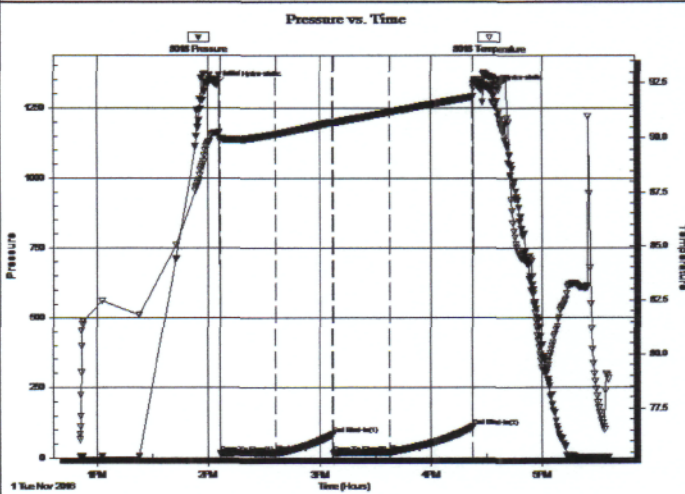
**2-14s-15w Russell,KS**  
**Steinle #1**  
 Job Ticket: 63531      **DST#: 2**  
 Test Start: 2016.11.01 @ 12:50:45

### GENERAL INFORMATION:

Formation: **Topeka**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 14:06:25  
 Time Test Ended: 17:35:39  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Interval: **2751.00 ft (KB) To 2804.00 ft (KB) (TVD)**  
 Total Depth: 2804.00 ft (KB) (TVD)  
 Reference Elevations: 1896.00 ft (KB)  
 1888.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

**Serial #: 8018**      **Inside**  
 Press@RunDepth: 20.40 psig @ 2753.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2016.11.01      End Date: 2016.11.01      Last Calib.: 2016.11.01  
 Start Time: 12:50:45      End Time: 17:35:39      Time On Btm: 2016.11.01 @ 14:04:40  
 Time Off Btm: 2016.11.01 @ 16:26:25

TEST COMMENT: 30-IFP-w k surface bl thru-out  
 30-ISIP-no bl bk  
 30-FFP-w k bl thru-out 1/8" bl  
 45-FSIP-no bl bk



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1333.10         | 90.25        | Initial Hydro-static |
| 2           | 16.45           | 89.87        | Open To Flow (1)     |
| 32          | 18.63           | 90.17        | Shut-in(1)           |
| 63          | 83.46           | 90.72        | End Shut-in(1)       |
| 63          | 16.84           | 90.71        | Open To Flow (2)     |
| 93          | 20.40           | 91.18        | Shut-in(2)           |
| 138         | 110.00          | 91.89        | End Shut-in(2)       |
| 142         | 1317.98         | 92.50        | Final Hydro-static   |

### Recovery

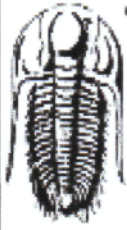
| Length (ft) | Description  | Volume (bbl) |
|-------------|--------------|--------------|
| 10.00       | SOCM 2%O98%M | 0.14         |
| 0.00        | 50'GIP       | 0.00         |
|             |              |              |
|             |              |              |

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63531

**DST#: 2**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.01 @ 12:50:45

**Tool Information**

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 2762.00 ft | Diameter: 3.80 inches | Volume: 38.74 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 55000.00 lb  |
|                           |                    |                       | <u>Total Volume: 38.74 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 32.00 ft           |                       |                                | String Weight: Initial 31000.00 lb |
| Depth to Top Packer:      | 2751.00 ft         |                       |                                | Final 31000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 53.00 ft           |                       |                                |                                    |
| Tool Length:              | 74.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

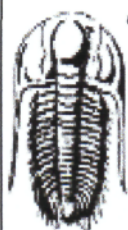
Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 2731.00    |                               |
| Shut In Tool     | 5.00        |            |          | 2736.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 2741.00    |                               |
| Packer           | 5.00        |            |          | 2746.00    | 21.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 2751.00    |                               |
| Stubb            | 1.00        |            |          | 2752.00    |                               |
| Perforations     | 1.00        |            |          | 2753.00    |                               |
| Recorder         | 0.00        | 8018       | Inside   | 2753.00    |                               |
| Recorder         | 0.00        | 8700       | Outside  | 2753.00    |                               |
| Blank Spacing    | 33.00       |            |          | 2786.00    |                               |
| Perforations     | 15.00       |            |          | 2801.00    |                               |
| Bullnose         | 3.00        |            |          | 2804.00    | 53.00 Bottom Packers & Anchor |

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63531

**DST#: 2**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.01 @ 12:50:45

**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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.89 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description  | Volume<br>bbl |
|--------------|--------------|---------------|
| 10.00        | SOCM 2%O98%M | 0.140         |
| 0.00         | 50'GIP       | 0.000         |

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8018

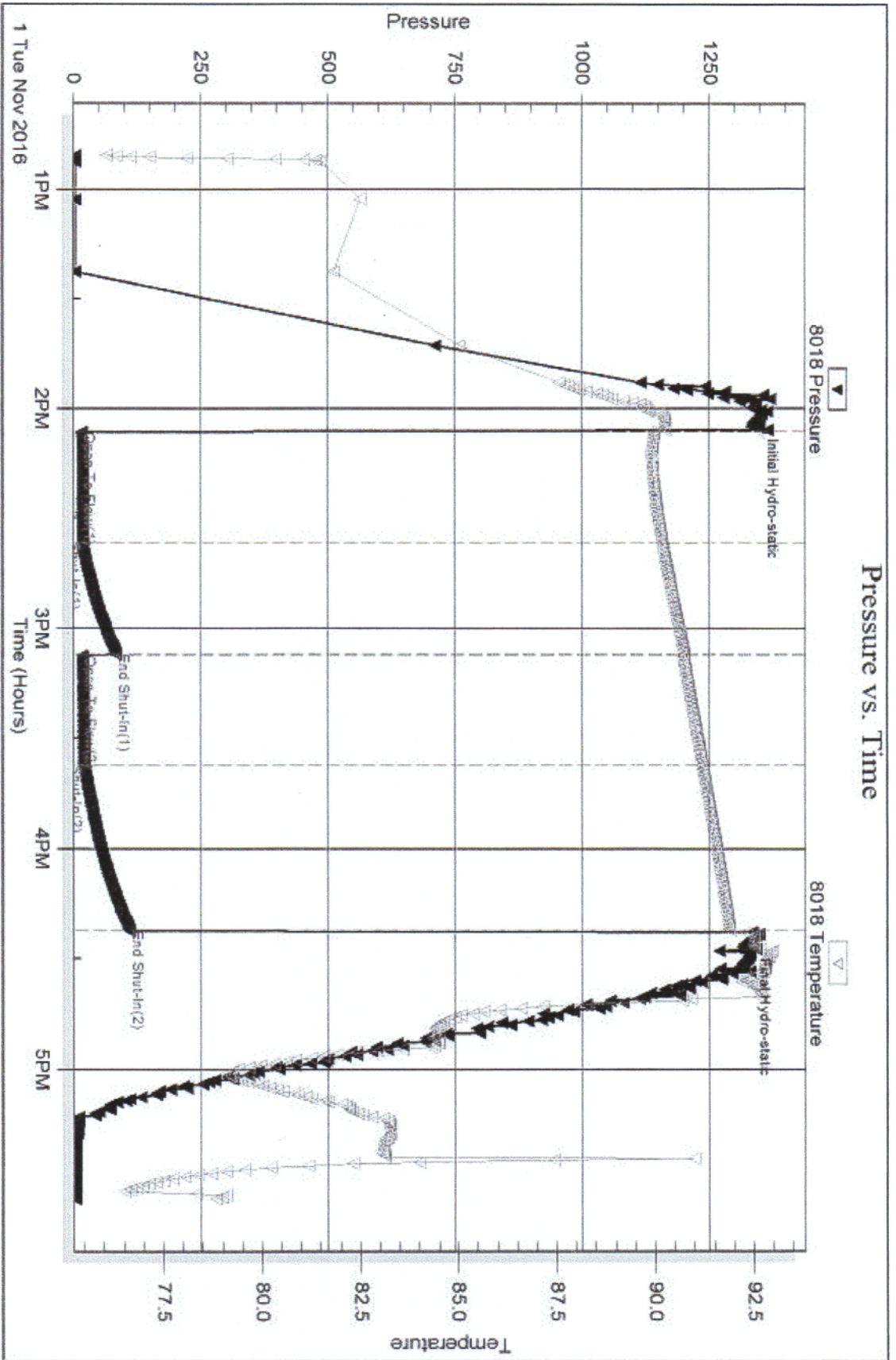
Inside

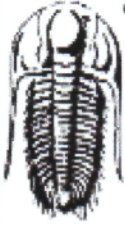
Mai Oil Operations Inc

Steinle #1

DST Test Number: 2

### Pressure vs. Time





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations Inc  
 8411 Preston Rd  
 Ste 800  
 Dallas TX 75225-5520  
 ATTN: Kurt Mai, Jim Musgro

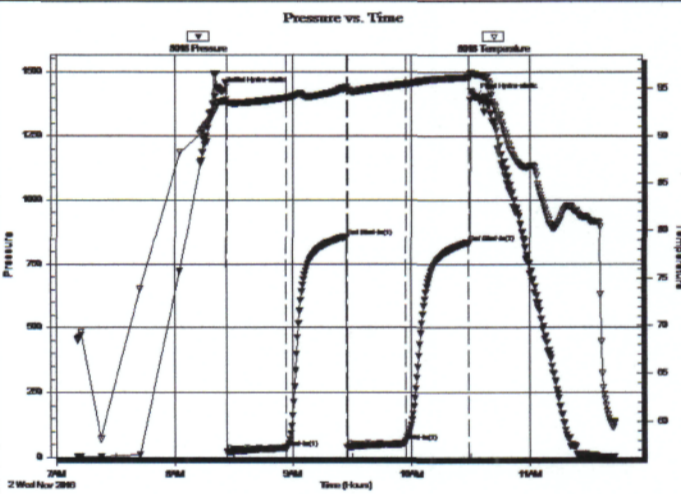
**2-14s-15w Russell,KS**  
**Steinle #1**  
 Job Ticket: 63532      **DST#: 3**  
 Test Start: 2016.11.02 @ 07:10:43

**GENERAL INFORMATION:**

Formation: **Plattsmouth**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 08:26:23 Tester: Ray Schwager  
 Time Test Ended: 11:43:15 Unit No: 77  
 Interval: **2930.00 ft (KB) To 2970.00 ft (KB) (TVD)** Reference Elevations: 1896.00 ft (KB)  
 Total Depth: 2970.00 ft (KB) (TVD) 1888.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8018 Inside**  
 Press@RunDepth: 62.85 psig @ 2938.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.11.02 End Date: 2016.11.02 Last Calib.: 2016.11.02  
 Start Time: 07:10:43 End Time: 11:43:15 Time On Btm: 2016.11.02 @ 08:24:08  
 Time Off Btm: 2016.11.02 @ 10:32:08

TEST COMMENT: 30-IFP-w k bl thru-out 1/4" to surface bl  
 30-ISIP-no bl bk  
 30-FFP-no bl  
 30-FSIP-no bl



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1423.46         | 93.63        | Initial Hydro-static |
| 3           | 21.14           | 93.42        | Open To Flow (1)     |
| 33          | 37.63           | 94.03        | Shut-In(1)           |
| 63          | 857.05          | 95.04        | End Shut-In(1)       |
| 64          | 40.33           | 94.79        | Open To Flow (2)     |
| 93          | 62.85           | 95.43        | Shut-In(2)           |
| 125         | 834.29          | 96.15        | End Shut-In(2)       |
| 128         | 1401.08         | 96.44        | Final Hydro-static   |

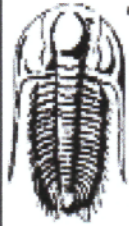
**Recovery**

| Length (ft) | Description                | Volume (bbl) |
|-------------|----------------------------|--------------|
| 70.00       | WM 30%W70%Mw / show of oil | 0.98         |
|             |                            |              |
|             |                            |              |
|             |                            |              |
|             |                            |              |

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520  
ATTN: Kurt Mai, Jim Musgro

**Steinle #1**

Job Ticket: 63532

**DST#: 3**

Test Start: 2016.11.02 @ 07:10:43

### Tool Information

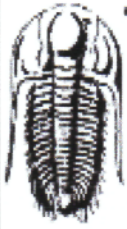
|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 2924.00 ft | Diameter: 3.80 inches | Volume: 41.02 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 35000.00 lb  |
|                           |                    |                       | <u>Total Volume: 41.02 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 15.00 ft           |                       |                                | String Weight: Initial 30000.00 lb |
| Depth to Top Packer:      | 2930.00 ft         |                       |                                | Final 30000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 40.00 ft           |                       |                                |                                    |
| Tool Length:              | 61.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                 |       |      |         |         |                               |
|-----------------|-------|------|---------|---------|-------------------------------|
| Change Over Sub | 1.00  |      |         | 2910.00 |                               |
| Shut In Tool    | 5.00  |      |         | 2915.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 2920.00 |                               |
| Packer          | 5.00  |      |         | 2925.00 | 21.00 Bottom Of Top Packer    |
| Packer          | 5.00  |      |         | 2930.00 |                               |
| Stubb           | 1.00  |      |         | 2931.00 |                               |
| Perforations    | 7.00  |      |         | 2938.00 |                               |
| Recorder        | 0.00  | 8018 | Inside  | 2938.00 |                               |
| Recorder        | 0.00  | 8700 | Outside | 2938.00 |                               |
| Perforations    | 29.00 |      |         | 2967.00 |                               |
| Bullnose        | 3.00  |      |         | 2970.00 | 40.00 Bottom Packers & Anchor |

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63532

**DST#: 3**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.02 @ 07:10:43

**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: | 25000 ppm |
| Viscosity: 50.00 sec/qt          | Cushion Volume: bbl        |                 |           |
| Water Loss: 7.89 in <sup>3</sup> | Gas Cushion Type:          |                 |           |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |           |
| Salinity: 3000.00 ppm            |                            |                 |           |
| Filter Cake: 1.00 inches         |                            |                 |           |

**Recovery Information**

Recovery Table

| Length<br>ft | Description                 | Volume<br>bbl |
|--------------|-----------------------------|---------------|
| 70.00        | WM 30%W70%M w / show of oil | 0.982         |

Total Length: 70.00 ft      Total Volume: 0.982 bbl

Num Fluid Samples: 0

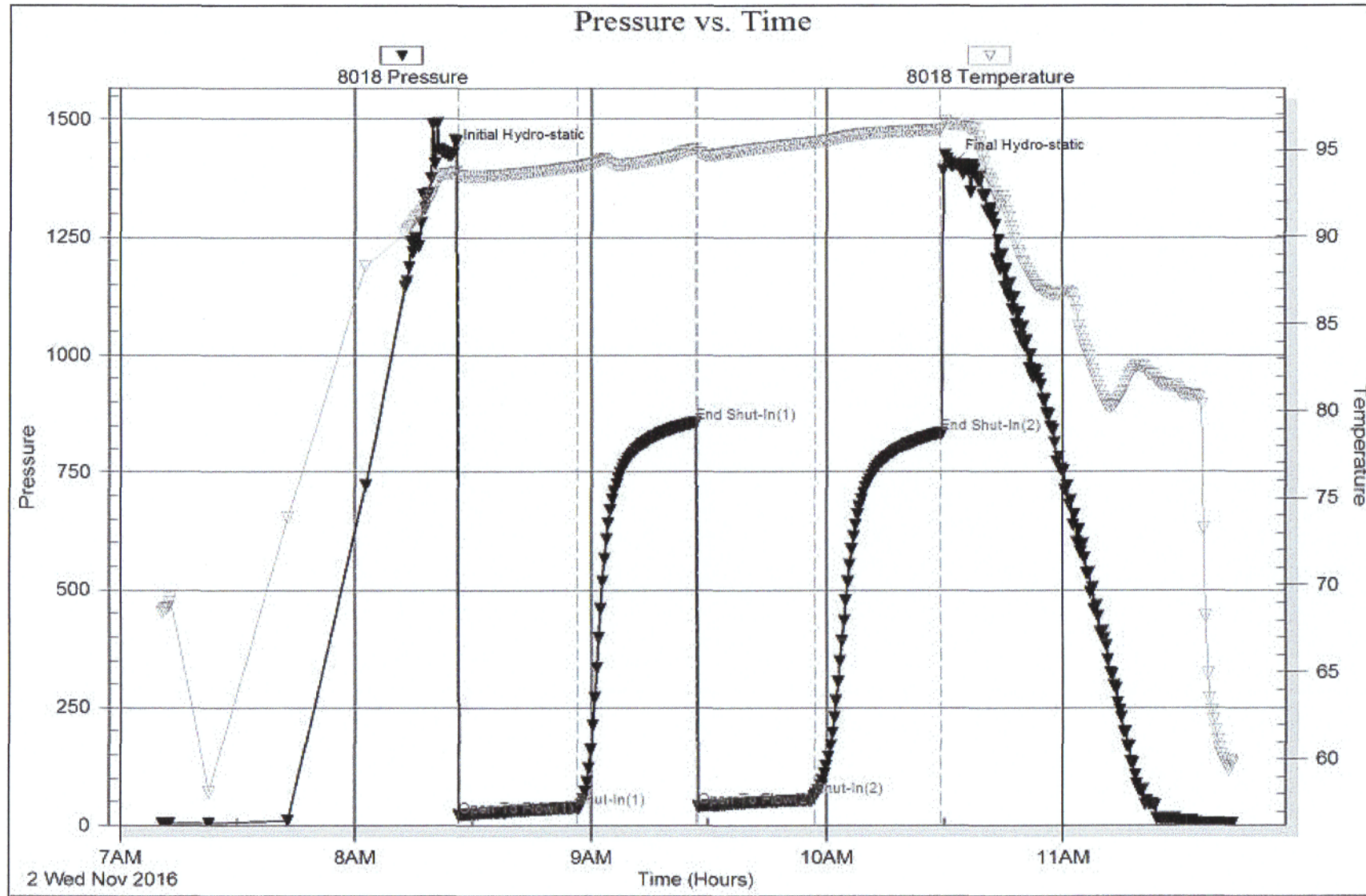
Num Gas Bombs: 0

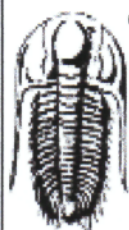
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.28@70F





**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Mai Oil Operations Inc  
 8411 Preston Rd  
 Ste 800  
 Dallas TX 75225-5520  
 ATTN: Kurt Mai, Jim Musgro

**2-14s-15w Russell,KS**  
**Steinle #1**  
 Job Ticket: 63533      **DST#: 4**  
 Test Start: 2016.11.03 @ 02:10:26

### GENERAL INFORMATION:

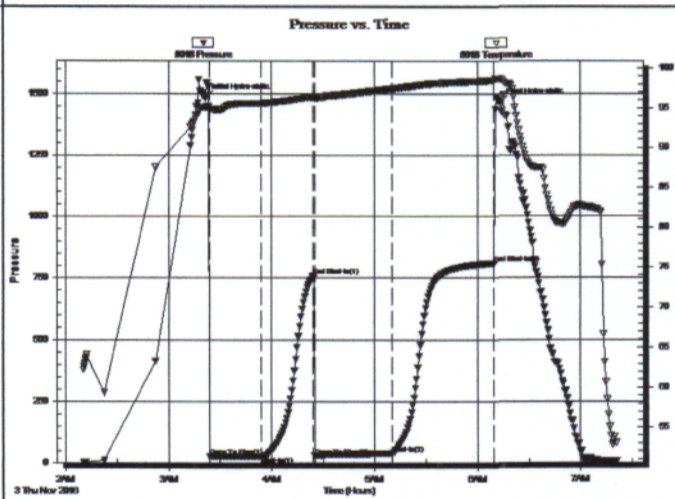
Formation: **LKC A-C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:23:51  
 Time Test Ended: 07:21:20  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Interval: **3053.00 ft (KB) To 3086.00 ft (KB) (TVD)**  
 Reference Elevations: 1896.00 ft (KB)  
 Total Depth: 3086.00 ft (KB) (TVD) 1888.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

### Serial #: 8018

Inside

Press@RunDepth: 38.76 psig @ 3059.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.11.03 End Date: 2016.11.03 Last Calib.: 2016.11.03  
 Start Time: 02:10:26 End Time: 07:21:20 Time On Btm: 2016.11.03 @ 03:21:36  
 Time Off Btm: 2016.11.03 @ 06:13:21

TEST COMMENT: 30-IFP-w k to a fr bl 1/4" to 4" bl  
 30-ISIP-no bl bk  
 45-FFP-w k to a gd bl 3" to 8" bl  
 60-FSIP-no bl bk



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1483.73         | 95.11        | Initial Hydro-static |
| 3           | 27.45           | 94.72        | Open To Flow (1)     |
| 33          | 27.10           | 95.59        | Shut-In(1)           |
| 63          | 757.05          | 96.36        | End Shut-In(1)       |
| 64          | 28.19           | 96.17        | Open To Flow (2)     |
| 109         | 38.76           | 97.39        | Shut-In(2)           |
| 168         | 810.09          | 98.42        | End Shut-In(2)       |
| 172         | 1463.39         | 98.61        | Final Hydro-static   |

### Recovery

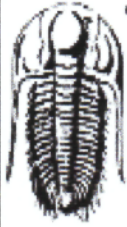
| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 40.00       | O&GCM 10%G15%O75%M | 0.56         |
| 0.00        | 270' GIP           | 0.00         |
|             |                    |              |
|             |                    |              |

\* Recovery from multiple tests

### Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63533

**DST#: 4**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.03 @ 02:10:26

**Tool Information**

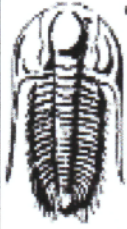
|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3048.00 ft | Diameter: 3.80 inches | Volume: 42.76 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 45000.00 lb  |
|                           |                    |                       | <u>Total Volume: 42.76 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 16.00 ft           |                       |                                | String Weight: Initial 32000.00 lb |
| Depth to Top Packer:      | 3053.00 ft         |                       |                                | Final 33000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 33.00 ft           |                       |                                |                                    |
| Tool Length:              | 54.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

**Tool Description                      Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths**

|                 |       |      |         |         |                                    |
|-----------------|-------|------|---------|---------|------------------------------------|
| Change Over Sub | 1.00  |      |         | 3033.00 |                                    |
| Shut In Tool    | 5.00  |      |         | 3038.00 |                                    |
| Hydraulic tool  | 5.00  |      |         | 3043.00 |                                    |
| Packer          | 5.00  |      |         | 3048.00 | 21.00      Bottom Of Top Packer    |
| Packer          | 5.00  |      |         | 3053.00 |                                    |
| Stubb           | 1.00  |      |         | 3054.00 |                                    |
| Perforations    | 5.00  |      |         | 3059.00 |                                    |
| Recorder        | 0.00  | 8018 | Inside  | 3059.00 |                                    |
| Recorder        | 0.00  | 8700 | Outside | 3059.00 |                                    |
| Perforations    | 24.00 |      |         | 3083.00 |                                    |
| Bullnose        | 3.00  |      |         | 3086.00 | 33.00      Bottom Packers & Anchor |

**Total Tool Length:    54.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63533

**DST#: 4**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.03 @ 02:10:26

**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: 52.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 7.89 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 3000.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches         |                            |                 |         |

**Recovery Information**

Recovery Table

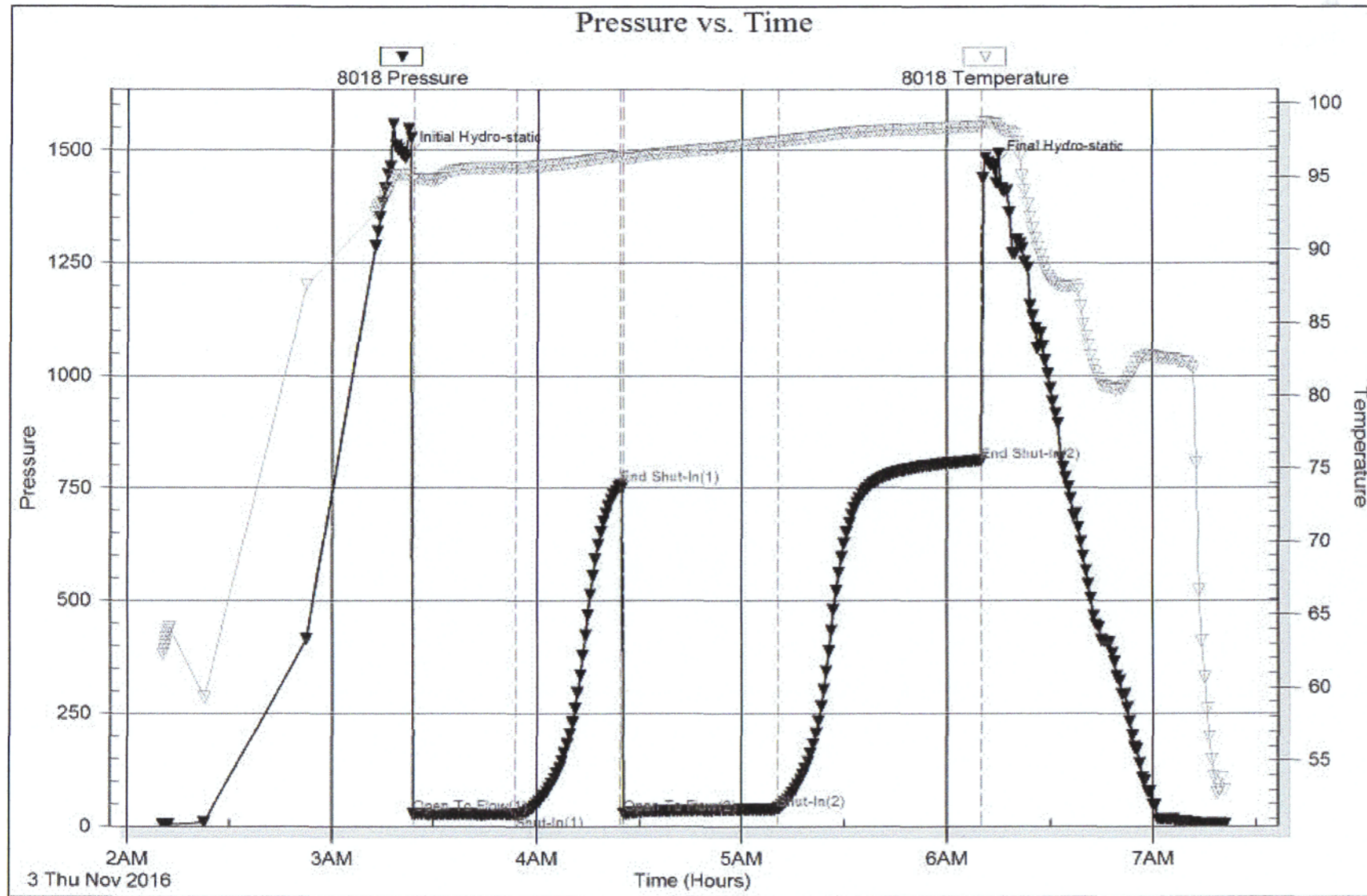
| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 40.00        | O&GCM 10%G15%O75%M | 0.561         |
| 0.00         | 270' GIP           | 0.000         |

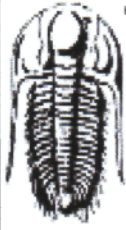
Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520  
ATTN: Kurt Mai, Jim Musgro

**Steinle #1**

Job Ticket: 63534      **DST#: 5**  
Test Start: 2016.11.03 @ 12:35:18

**GENERAL INFORMATION:**

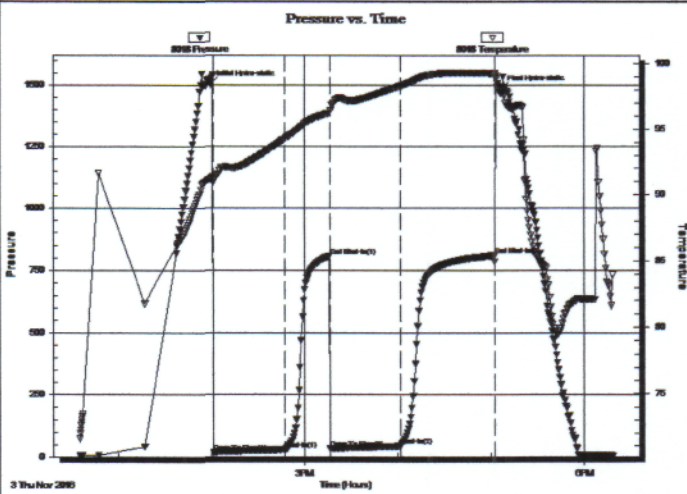
Formation: **LKC D&E**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 14:01:13  
Time Test Ended: 18:17:57  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 77  
Interval: **3082.00 ft (KB) To 3106.00 ft (KB) (TVD)**  
Reference Elevations: 1896.00 ft (KB)  
Total Depth: 3106.00 ft (KB) (TVD) 1888.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8018**

**Inside**

Press@RunDepth: 46.02 psig @ 3083.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.11.03 End Date: 2016.11.03 Last Calib.: 2016.11.03  
Start Time: 12:35:18 End Time: 18:17:57 Time On Btm: 2016.11.03 @ 13:59:13  
Time Off Btm: 2016.11.03 @ 17:06:12

TEST COMMENT: 45-IFP-w k bl thru-out 1/4" to 1 1/2" bl  
30-ISIP-no bl bk  
45-FFP-w k bl thru-out 1/2" bl bk  
60-FSIP-no bl bk



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1501.00         | 91.20        | Initial Hydro-static |
| 2           | 17.73           | 90.95        | Open To Flow (1)     |
| 48          | 29.50           | 94.27        | Shut-In(1)           |
| 77          | 807.14          | 96.22        | End Shut-In(1)       |
| 78          | 33.50           | 96.44        | Open To Flow (2)     |
| 123         | 46.02           | 98.30        | Shut-In(2)           |
| 183         | 809.26          | 99.27        | End Shut-In(2)       |
| 187         | 1481.78         | 97.75        | Final Hydro-static   |

**Recovery**

| Length (ft) | Description       | Volume (bbl) |
|-------------|-------------------|--------------|
| 50.00       | SOCWM 1%O40%W59%M | 0.70         |
| 0.00        | 70' GIP           | 0.00         |
|             |                   |              |
|             |                   |              |
|             |                   |              |

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520  
ATTN: Kurt Mai, Jim Musgro

**Steinle #1**

Job Ticket: 63534

**DST#: 5**

Test Start: 2016.11.03 @ 12:35:18

**Tool Information**

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3080.00 ft | Diameter: 3.80 inches | Volume: 43.20 bbl              | Tool Weight:           | 2200.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose:  | 45000.00 lb |
|                           |                    |                       | <u>Total Volume: 43.20 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 19.00 ft           |                       |                                | String Weight: Initial | 33000.00 lb |
| Depth to Top Packer:      | 3082.00 ft         |                       |                                | Final                  | 33000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 24.00 ft           |                       |                                |                        |             |
| Tool Length:              | 45.00 ft           |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

**Tool Description**

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Change Over Sub           | 1.00         |            |          | 3062.00    |                               |
| Shut In Tool              | 5.00         |            |          | 3067.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 3072.00    |                               |
| Packer                    | 5.00         |            |          | 3077.00    | 21.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3082.00    |                               |
| Stubb                     | 1.00         |            |          | 3083.00    |                               |
| Recorder                  | 0.00         | 8018       | Inside   | 3083.00    |                               |
| Recorder                  | 0.00         | 8700       | Outside  | 3083.00    |                               |
| Perforations              | 20.00        |            |          | 3103.00    |                               |
| Bullnose                  | 3.00         |            |          | 3106.00    | 24.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>45.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63534

**DST#: 5**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.03 @ 12:35:18

**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:

68000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description       | Volume<br>bbbl |
|--------------|-------------------|----------------|
| 50.00        | SOCWM 1%O40%W59%M | 0.701          |
| 0.00         | 70' GIP           | 0.000          |

Total Length: 50.00 ft      Total Volume: 0.701 bbl

Num Fluid Samples: 0

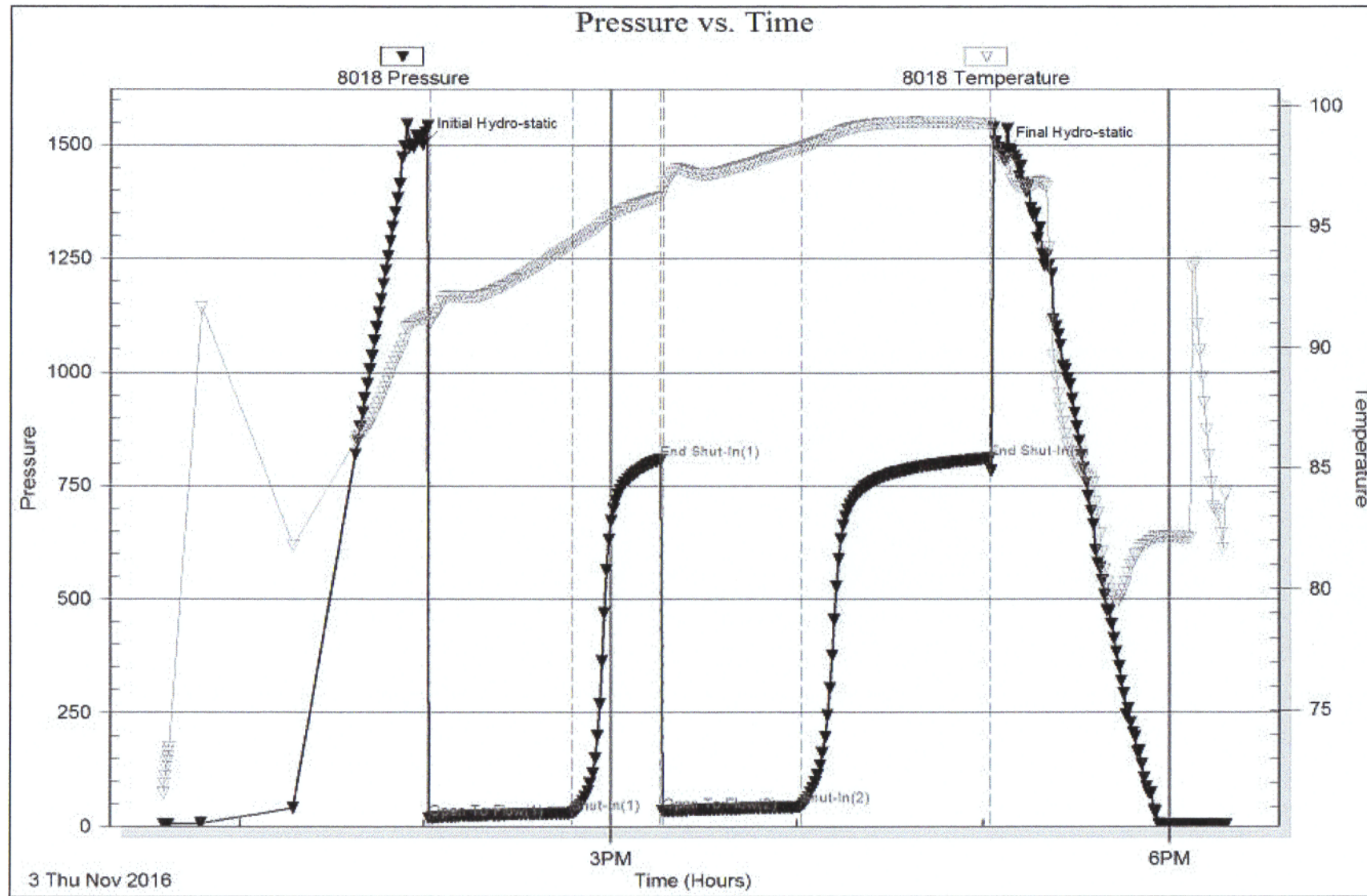
Num Gas Bombs: 0

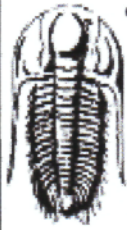
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW.11@70F





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations Inc  
 8411 Preston Rd  
 Ste 800  
 Dallas TX 75225-5520  
 ATTN: Kurt Mai, Jim Musgro

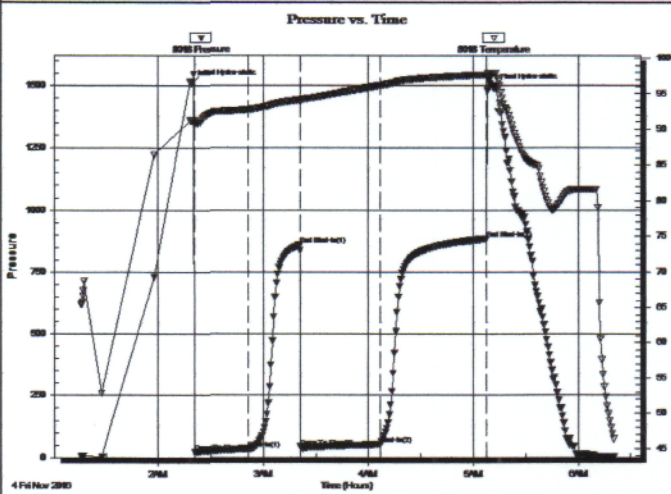
**2-14s-15w Russell,KS**  
**Steinle #1**  
 Job Ticket: 63535 **DST#: 6**  
 Test Start: 2016.11.04 @ 01:15:51

**GENERAL INFORMATION:**

Formation: **LKC F-G**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 02:21:01 Tester: Ray Schwager  
 Time Test Ended: 06:20:30 Unit No: 77  
 Interval: **3101.00 ft (KB) To 3140.00 ft (KB) (TVD)** Reference Elevations: 1896.00 ft (KB)  
 Total Depth: 3140.00 ft (KB) (TVD) 1888.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8018 Inside**  
 Press@RunDepth: 53.23 psig @ 3110.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.11.04 End Date: 2016.11.04 Last Calib.: 2016.11.04  
 Start Time: 01:15:51 End Time: 06:20:30 Time On Btm: 2016.11.04 @ 02:19:01  
 Time Off Btm: 2016.11.04 @ 05:11:31

**TEST COMMENT:** 30-IFP-w k to a fr bl 1/2" to 7" bl  
 30-ISIP-no bl bk  
 45-FFP-w k to a fr bl 1/4" to 7" bl  
 60-FSIP-no bl bk



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1508.00         | 91.27        | Initial Hydro-static |
| 2           | 22.69           | 90.83        | Open To Flow (1)     |
| 33          | 34.93           | 92.81        | Shut-In(1)           |
| 62          | 859.93          | 94.12        | End Shut-In(1)       |
| 63          | 43.17           | 93.85        | Open To Flow (2)     |
| 108         | 53.23           | 96.14        | Shut-In(2)           |
| 169         | 884.43          | 97.66        | End Shut-In(2)       |
| 173         | 1493.41         | 97.90        | Final Hydro-static   |

**Recovery**

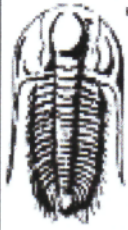
| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 75.00       | O&GCM 10%G30%O60%M | 1.05         |
| 1.00        | CO                 | 0.01         |
| 0.00        | 355' GP            | 0.00         |
|             |                    |              |
|             |                    |              |

\* Recovery from multiple tests

**Gas Rates**

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63535

**DST#: 6**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.04 @ 01:15:51

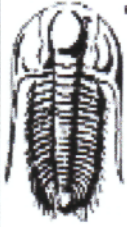
**Tool Information**

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3111.00 ft | Diameter: 3.80 inches | Volume: 43.64 bbl              | Tool Weight:           | 2200.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose:  | 40000.00 lb |
|                           |                    |                       | <u>Total Volume: 43.64 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 31.00 ft           |                       |                                | String Weight: Initial | 32000.00 lb |
| Depth to Top Packer:      | 3101.00 ft         |                       |                                | Final                  | 32000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 39.00 ft           |                       |                                |                        |             |
| Tool Length:              | 60.00 ft           |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

**Tool Description**

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Change Over Sub           | 1.00         |            |          | 3081.00    |                               |
| Shut In Tool              | 5.00         |            |          | 3086.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 3091.00    |                               |
| Packer                    | 5.00         |            |          | 3096.00    | 21.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 3101.00    |                               |
| Stubb                     | 1.00         |            |          | 3102.00    |                               |
| Perforations              | 8.00         |            |          | 3110.00    |                               |
| Recorder                  | 0.00         | 8018       | Inside   | 3110.00    |                               |
| Recorder                  | 0.00         | 8700       | Outside  | 3110.00    |                               |
| Perforations              | 27.00        |            |          | 3137.00    |                               |
| Bullnose                  | 3.00         |            |          | 3140.00    | 39.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>60.00</b> |            |          |            |                               |



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63535

**DST#: 6**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.04 @ 01:15:51

**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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 75.00        | O&GCM 10%G30%O60%M | 1.052         |
| 1.00         | CO                 | 0.014         |
| 0.00         | 355' GIP           | 0.000         |

Total Length: 76.00 ft      Total Volume: 1.066 bbl

Num Fluid Samples: 0

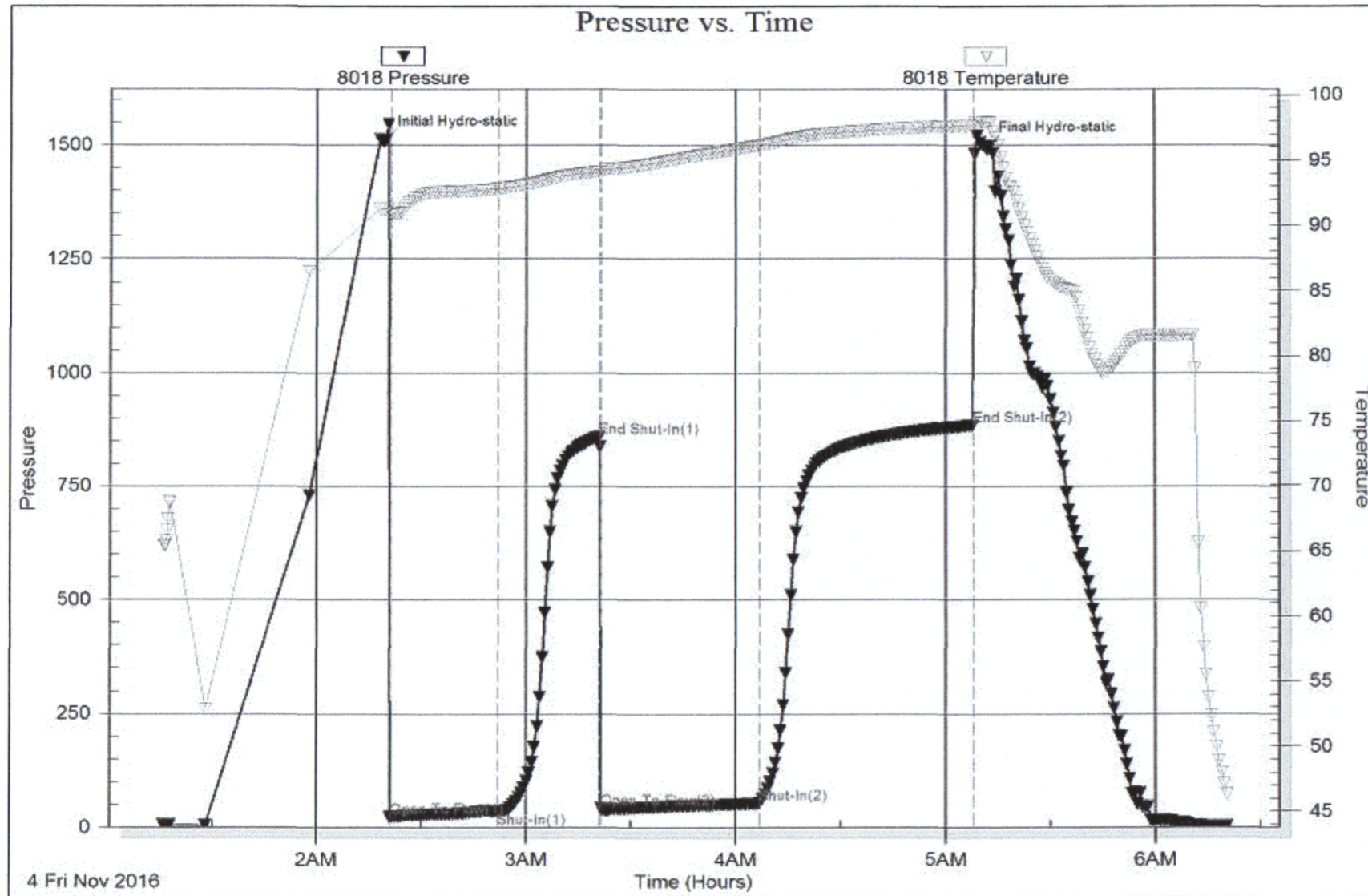
Num Gas Bombs: 0

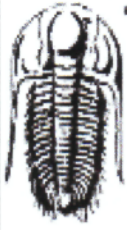
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Mai Oil Operations Inc  
 8411 Preston Rd  
 Ste 800  
 Dallas TX 75225-5520  
 ATTN: Kurt Mai, Jim Musgro

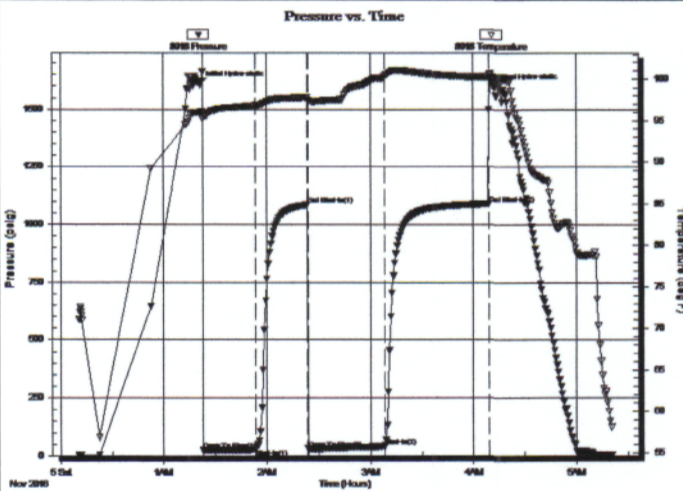
**2-14s-15w Russell,KS**  
**Steinle #1**  
 Job Ticket: 63536 **DST#: 7**  
 Test Start: 2016.11.05 @ 00:10:37

**GENERAL INFORMATION:**

Formation: **Gorham Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 01:22:47 Tester: Ray Schwager  
 Time Test Ended: 05:20:46 Unit No: 77  
 Interval: **3259.00 ft (KB) To 3307.00 ft (KB) (TVD)** Reference Elevations: 1896.00 ft (KB)  
 Total Depth: 3307.00 ft (KB) (TVD) 1888.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8018 Inside**  
 Press@RunDepth: 38.74 psig @ 3271.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.11.05 End Date: 2016.11.05 Last Calib.: 2016.11.05  
 Start Time: 00:10:37 End Time: 05:20:46 Time On Btm: 2016.11.05 @ 01:21:17  
 Time Off Btm: 2016.11.05 @ 04:12:02

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/2' to 2" bl  
 30-ISIP-no bl bk  
 45-FFP-w k bl thru-out surface to 2" bl  
 60--FSIP-no bl bk



**PRESSURE SUMMARY**

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1607.90         | 96.00        | Initial Hydro-static |
| 2           | 22.76           | 95.21        | Open To Flow (1)     |
| 32          | 27.32           | 96.81        | Shut-In(1)           |
| 62          | 1085.75         | 97.78        | End Shut-In(1)       |
| 63          | 30.07           | 97.35        | Open To Flow (2)     |
| 107         | 38.74           | 100.29       | Shut-In(2)           |
| 168         | 1090.99         | 100.27       | End Shut-In(2)       |
| 171         | 1594.54         | 100.24       | Final Hydro-static   |

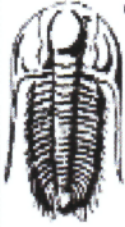
**Recovery**

| Length (ft) | Description      | Volume (bbl) |
|-------------|------------------|--------------|
| 45.00       | MGO 10%G40%M50%O | 0.63         |
| 0.00        | 75' GIP          | 0.00         |
|             |                  |              |
|             |                  |              |
|             |                  |              |

\* Recovery from multiple tests

**Gas Rates**

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63536

**DST#:7**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.05 @ 00:10:37

**Tool Information**

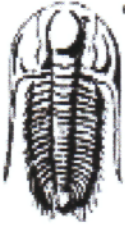
|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3269.00 ft | Diameter: 3.80 inches | Volume: 45.86 bbl              | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 45000.00 lb  |
|                           |                    |                       | <u>Total Volume: 45.86 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 31.00 ft           |                       |                                | String Weight: Initial 32000.00 lb |
| Depth to Top Packer:      | 3259.00 ft         |                       |                                | Final 33000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 48.00 ft           |                       |                                |                                    |
| Tool Length:              | 69.00 ft           |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                                    |

Tool Comments:

**Tool Description**

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 3239.00    |                               |
| Shut In Tool     | 5.00        |            |          | 3244.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3249.00    |                               |
| Packer           | 5.00        |            |          | 3254.00    | 21.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 3259.00    |                               |
| Stubb            | 1.00        |            |          | 3260.00    |                               |
| Perforations     | 11.00       |            |          | 3271.00    |                               |
| Recorder         | 0.00        | 8018       | Inside   | 3271.00    |                               |
| Recorder         | 0.00        | 8700       | Outside  | 3271.00    |                               |
| Blank Spacing    | 33.00       |            |          | 3304.00    |                               |
| Bullnose         | 3.00        |            |          | 3307.00    | 48.00 Bottom Packers & Anchor |

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mai Oil Operations Inc

**2-14s-15w Russell,KS**

8411 Preston Rd  
Ste 800  
Dallas TX 75225-5520

**Steinle #1**

Job Ticket: 63536

**DST#: 7**

ATTN: Kurt Mai, Jim Musgro

Test Start: 2016.11.05 @ 00:10:37

**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: 49.00 sec/qt          | Cushion Volume: bbl        |                 |         |
| Water Loss: 8.76 in <sup>3</sup> | Gas Cushion Type:          |                 |         |
| Resistivity: ohm.m               | Gas Cushion Pressure: psig |                 |         |
| Salinity: 4000.00 ppm            |                            |                 |         |
| Filter Cake: 1.00 inches         |                            |                 |         |

**Recovery Information**

Recovery Table

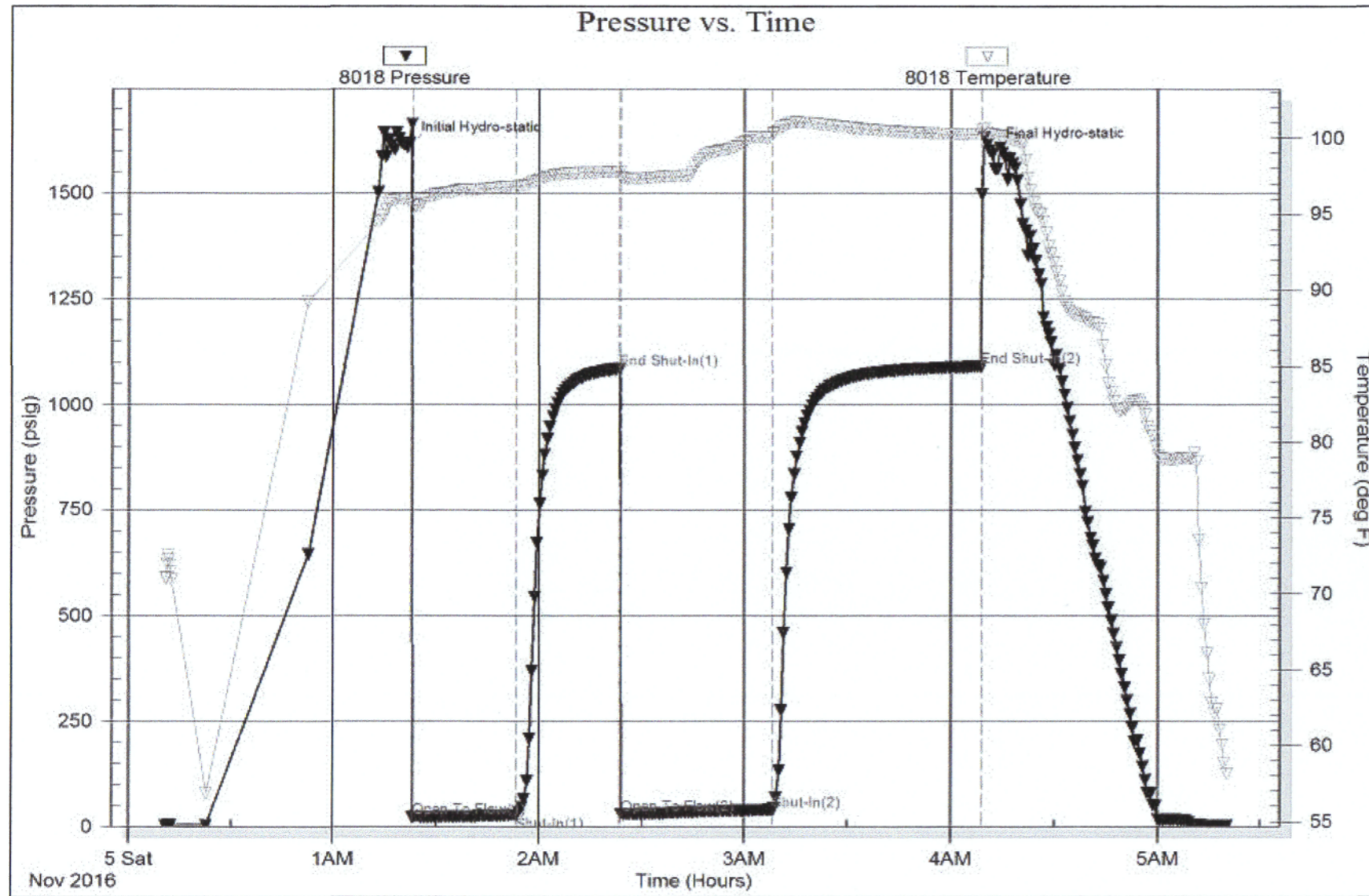
| Length<br>ft | Description      | Volume<br>bbl |
|--------------|------------------|---------------|
| 45.00        | MGO 10%G40%M50%O | 0.631         |
| 0.00         | 75' GIP          | 0.000         |

Total Length: 45.00 ft      Total Volume: 0.631 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7849

|                      |      |      |       |                       |                 |             |                       |
|----------------------|------|------|-------|-----------------------|-----------------|-------------|-----------------------|
| Date <i>10-29-16</i> | Sec. | Twp. | Range | County <i>Russell</i> | State <i>Ks</i> | On Location | Finish <i>5:30 PM</i> |
|----------------------|------|------|-------|-----------------------|-----------------|-------------|-----------------------|

Location *Bobbin Rd + Old 482 W 15*

|                       |                   |       |
|-----------------------|-------------------|-------|
| Lease <i>St. Anne</i> | Well No. <i>1</i> | Owner |
|-----------------------|-------------------|-------|

|                            |  |
|----------------------------|--|
| Contractor <i>Southern</i> | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |
|----------------------------|--|

|                              |                          |
|------------------------------|--------------------------|
| Type Job <i>Long Surface</i> | Charge To <i>Mo. Oil</i> |
|------------------------------|--------------------------|

|                         |                 |        |
|-------------------------|-----------------|--------|
| Hole Size <i>12 1/4</i> | T.D. <i>933</i> | Street |
|-------------------------|-----------------|--------|

|                   |                  |      |
|-------------------|------------------|------|
| Csg. <i>8 1/2</i> | Depth <i>932</i> | City |
|-------------------|------------------|------|

|           |       |       |
|-----------|-------|-------|
| Tbg. Size | Depth | State |
|-----------|-------|-------|

|      |       |  |
|------|-------|--|
| Tool | Depth | The above was done to satisfaction and supervision of owner agent or contractor. |
|------|-------|--|

|                                |            |   |
|--------------------------------|------------|---|
| Cement Left in Csg. <i>20'</i> | Shoe Joint | Cement Amount Ordered <i>350 @ 3% CC 20' JH</i> |
|--------------------------------|------------|---|

|           |                        |  |
|-----------|------------------------|--|
| Meas Line | Displace <i>58 REL</i> |  |
|-----------|------------------------|--|

**EQUIPMENT**

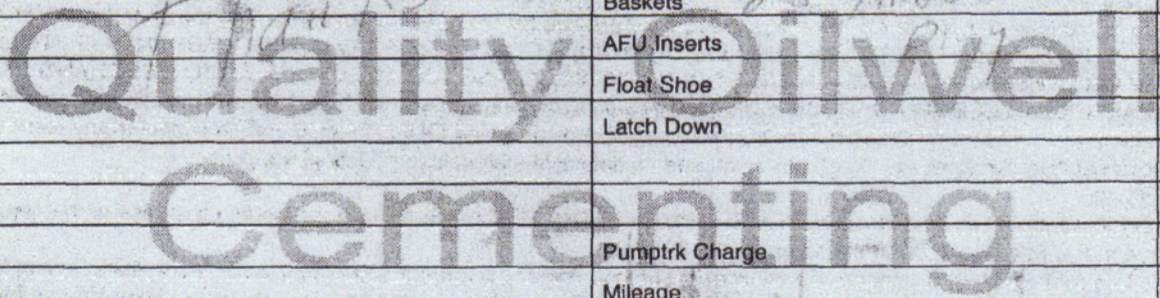
|                  |     |          |             |          |
|------------------|-----|----------|-------------|----------|
| Pumptrk <i>5</i> | No. | Cementer | Helper      | Common   |
|                  |     |          | <i>Nick</i> | Poz. Mix |
| Bulktrk          | No. | Driver   |             | Gel.     |
| Bulktrk <i>2</i> | No. | Driver   | <i>Dave</i> | Calcium  |

**JOB SERVICES & REMARKS**

|                                  |                         |
|----------------------------------|-------------------------|
| Remarks:                         | Hulls                   |
| Rat Hole                         | Salt                    |
| Mouse Hole                       | Flowseal                |
| Centralizers                     | Kol-Seal                |
| Baskets                          | Mud CLR 48              |
| D/V or Port Collar <i>Cement</i> | CFL-117 or CD110 CAF 38 |
|                                  | Sand                    |
|                                  | Handling                |
|                                  | Mileage                 |

**FLOAT EQUIPMENT**

|                             |             |
|-----------------------------|-------------|
| Guide Shoe                  | Centralizer |
| Baskets <i>8 1/2 Rubber</i> | AFU Inserts |
|                             | Float Shoe  |
|                             | Latch Down  |



|                |  |
|----------------|--|
| Pumptrk Charge |  |
| Mileage        |  |

|  |              |
|--|--------------|
|  | Tax          |
|  | Discount     |
|  | Total Charge |

X \_\_\_\_\_



