



## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources, LLC**

6727 W Prentice Ave  
Lakewood, CO 80123

ATTN: Jim Musgrove

**Bentley #16C-34-1527**

**34-15s-27w Gove,KS**

Start Date: 2019.08.22 @ 03:35:00

End Date: 2019.08.22 @ 11:38:30

Job Ticket #: 64373                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.08.26 @ 10:59:29



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

ATTN: Jim Musgrove

Job Ticket: 64373

**DST#: 1**

Test Start: 2019.08.22 @ 03:35:00

## GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:38:15

Time Test Ended: 11:38:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 78

**Interval: 3750.00 ft (KB) To 3786.00 ft (KB) (TVD)**

Reference Elevations: 2557.00 ft (KB)

Total Depth: 3786.00 ft (KB) (TVD)

2549.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 56.35 psig @ 3751.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.22

End Date:

2019.08.22

Last Calib.:

2019.08.22

Start Time: 03:35:05

End Time:

11:38:29

Time On Btm:

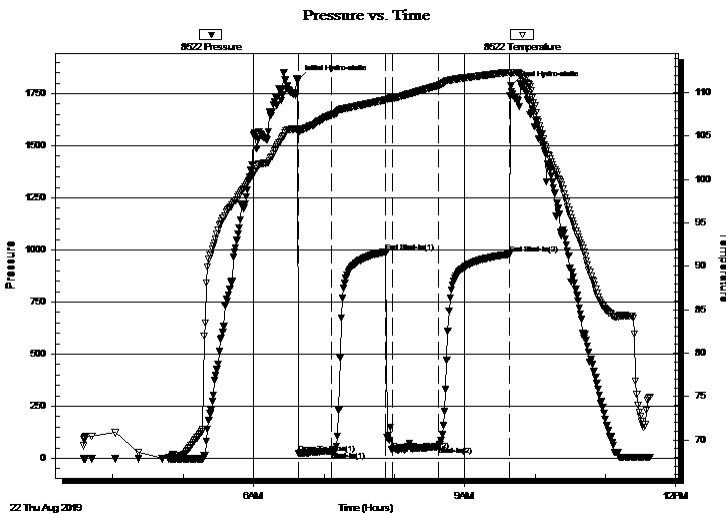
2019.08.22 @ 06:38:00

Time Off Btm:

2019.08.22 @ 09:39:30

**TEST COMMENT:** 30- IF: 3" blow .  
45- IS: No return.  
45- FF: 3" blow .  
60- FSI: No return.

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1815.11         | 105.89       | Initial Hydro-static |
| 1           | 24.43           | 105.34       | Open To Flow (1)     |
| 29          | 35.19           | 107.45       | Shut-In(1)           |
| 75          | 991.30          | 109.18       | End Shut-In(1)       |
| 81          | 41.40           | 109.35       | Open To Flow (2)     |
| 120         | 56.35           | 110.83       | Shut-In(2)           |
| 180         | 979.43          | 112.34       | End Shut-In(2)       |
| 182         | 1788.75         | 112.27       | Final Hydro-static   |

## Recovery

| Length (ft) | Description       | Volume (bbl) |
|-------------|-------------------|--------------|
| 60.00       | sow cm 2o 28w 70m | 0.84         |
| 5.00        | oil 100o          | 0.07         |
|             |                   |              |
|             |                   |              |
|             |                   |              |

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

Job Ticket: 64373

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2019.08.22 @ 03:35:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3753.00 ft | Diameter: 3.80 inches | Volume: 52.64 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 70000.00 lb  |
|                           |                    |                       | <u>Total Volume: 52.64 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 30.00 ft           |                       |                                | String Weight: Initial 55000.00 lb |
| Depth to Top Packer:      | 3750.00 ft         |                       |                                | Final 55000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 36.00 ft           |                       |                                |                                    |
| Tool Length:              | 63.00 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        |            |          | 3724.00    |                               |
| Shut In Tool     | 5.00        |            | Fluid    | 3729.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 3734.00    |                               |
| Jars             | 5.00        |            |          | 3739.00    |                               |
| Safety Joint     | 2.00        |            |          | 3741.00    |                               |
| Packer           | 5.00        |            | Inside   | 3746.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 3750.00    |                               |
| Stubb            | 1.00        |            |          | 3751.00    |                               |
| Recorder         | 0.00        | 8522       | Inside   | 3751.00    |                               |
| Recorder         | 0.00        | 8319       | Outside  | 3751.00    |                               |
| Perforations     | 32.00       |            |          | 3783.00    |                               |
| Bullnose         | 3.00        |            |          | 3786.00    | 36.00 Bottom Packers & Anchor |

**Total Tool Length: 63.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

US Oil Resources, LLC

**34-15s-27w Gove,KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

Job Ticket: 64373

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2019.08.22 @ 03:35:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

15000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description       | Volume<br>bbbl |
|--------------|-------------------|----------------|
| 60.00        | sow cm 2o 28w 70m | 0.842          |
| 5.00         | oil 100o          | 0.070          |

Total Length: 65.00 ft      Total Volume: 0.912 bbl

Num Fluid Samples: 0

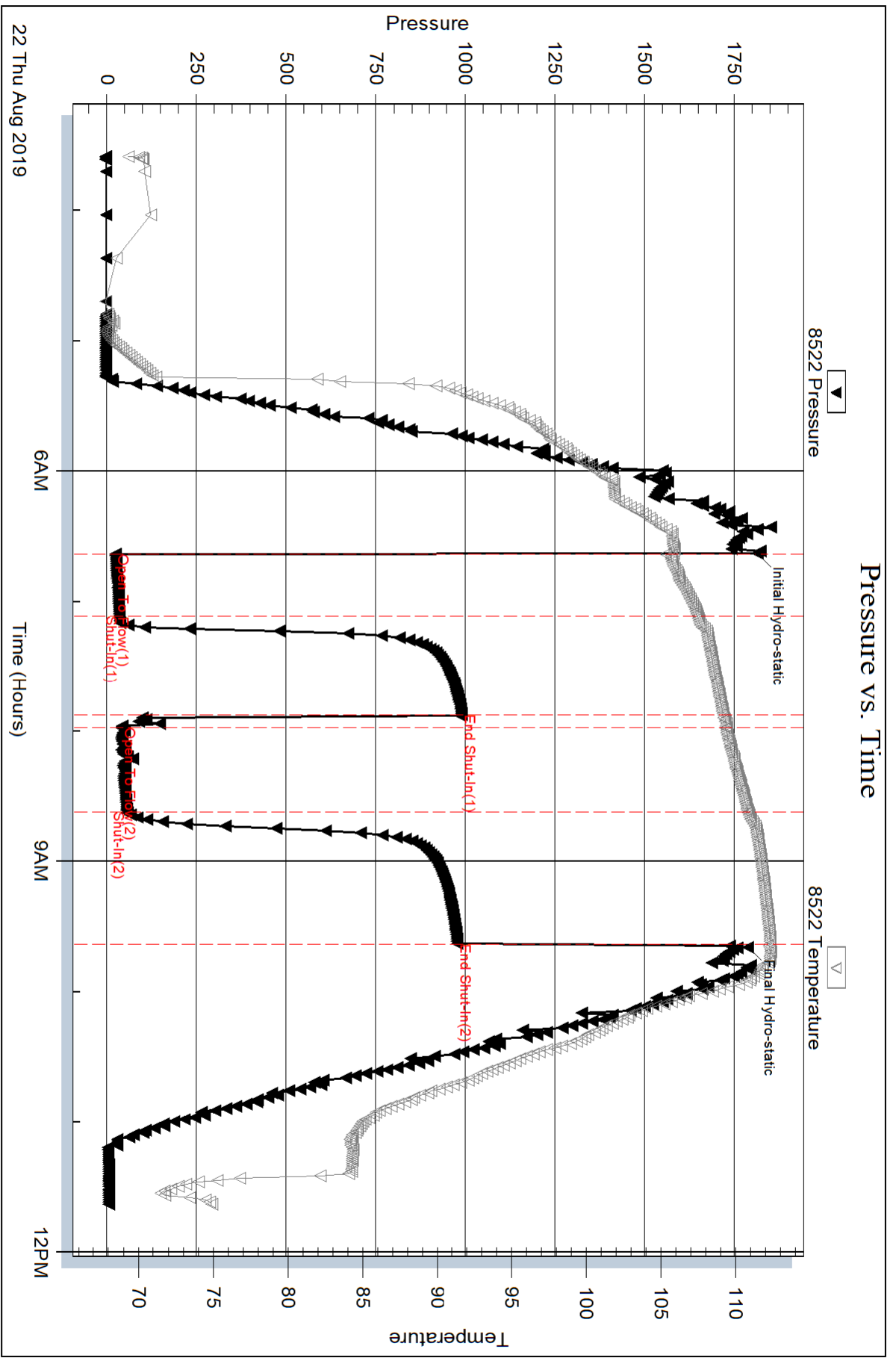
Num Gas Bombs: 0

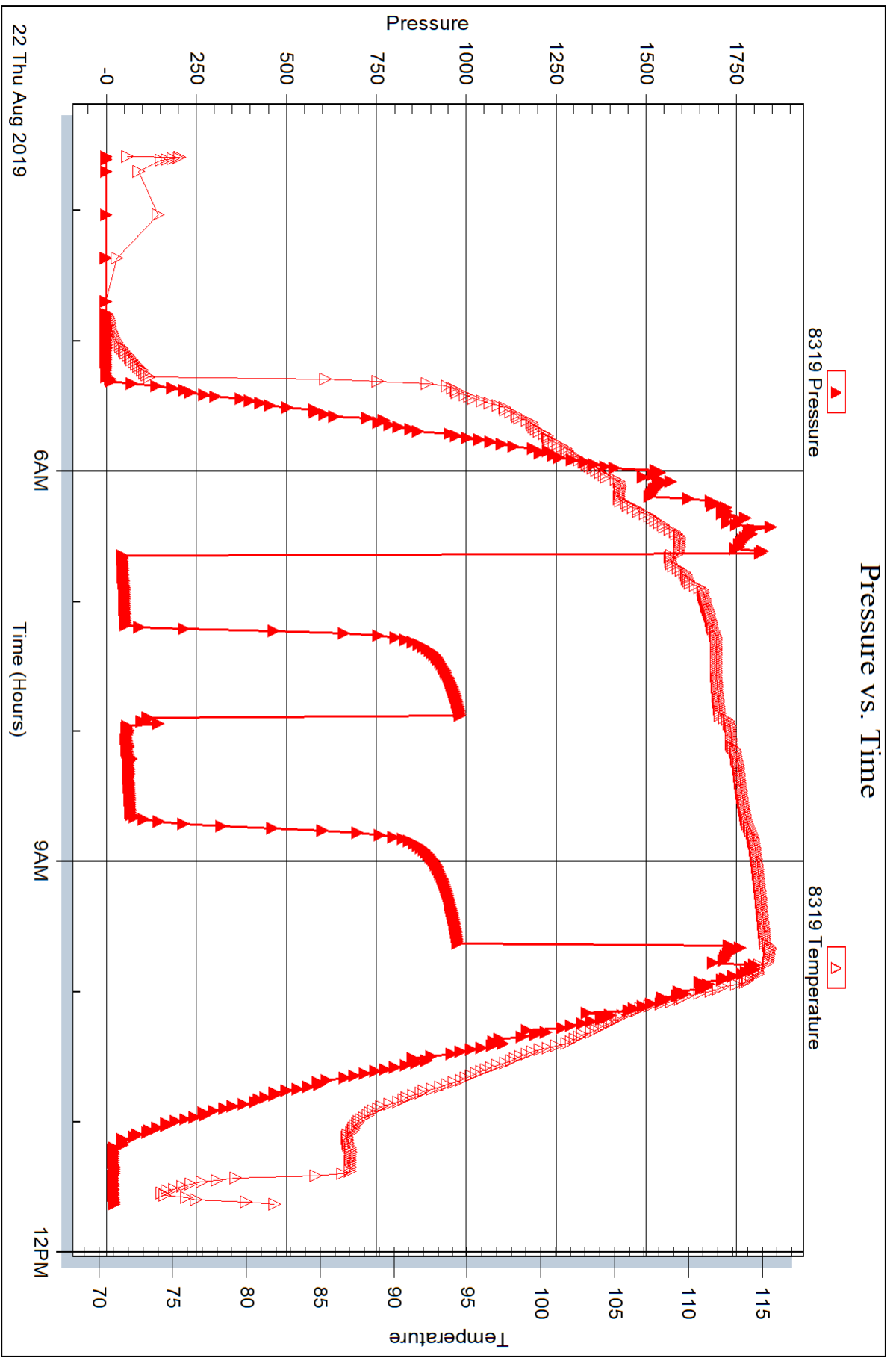
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .418 @ 69f = 15000ppm







## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources, LLC**

6727 W Prentice Ave  
Lakewood, CO 80123

ATTN: Jim Musgrove

**Bentley #16C-34-1527**

**34-15s-27w Gove,KS**

Start Date: 2019.08.22 @ 22:05:00

End Date: 2019.08.23 @ 02:40:15

Job Ticket #: 64374                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.08.26 @ 10:56:56











**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

ATTN: Jim Musgrove

Job Ticket: 64374

**DST#: 2**

Test Start: 2019.08.22 @ 22:05:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3846.00 ft | Diameter: 3.80 inches | Volume: 53.95 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 30000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 70000.00 lb  |
|                           |                    |                       | <u>Total Volume: 53.95 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 7.00 ft            |                       |                                | String Weight: Initial 55000.00 lb |
| Depth to Top Packer:      | 3866.00 ft         |                       |                                | Final 55000.00 lb                  |
| Depth to Bottom Packer:   | 3881.00 ft         |                       |                                |                                    |
| Interval between Packers: | 15.00 ft           |                       |                                |                                    |
| Tool Length:              | 59.00 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         |      |         | 3840.00 |                               |
| Shut In Tool              | 5.00         |      | Fluid   | 3845.00 |                               |
| Hydraulic tool            | 5.00         |      |         | 3850.00 |                               |
| Jars                      | 5.00         |      |         | 3855.00 |                               |
| Safety Joint              | 2.00         |      |         | 3857.00 |                               |
| Packer                    | 5.00         |      | Inside  | 3862.00 | 27.00 Bottom Of Top Packer    |
| Packer                    | 4.00         |      |         | 3866.00 |                               |
| Stubb                     | 1.00         |      |         | 3867.00 |                               |
| Recorder                  | 0.00         | 8319 | Outside | 3867.00 |                               |
| Recorder                  | 0.00         | 8522 | Inside  | 3867.00 |                               |
| Perforations              | 13.00        |      |         | 3880.00 |                               |
| Blank Off Sub             | 1.00         |      |         | 3881.00 | 15.00 Tool Interval           |
| Packer                    | 3.00         |      |         | 3884.00 |                               |
| Stubb                     | 1.00         |      |         | 3885.00 |                               |
| Perforations              | 10.00        |      |         | 3895.00 |                               |
| Recorder                  | 0.00         | 8845 | Below   | 3895.00 |                               |
| Bullnose                  | 3.00         |      |         | 3898.00 | 17.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>59.00</b> |      |         |         |                               |



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

Job Ticket: 64374

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2019.08.22 @ 22:05:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbbl |
|--------------|----------------------|----------------|
| 7.00         | MUD 100M W/oil spots | 0.098          |

Total Length: 7.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

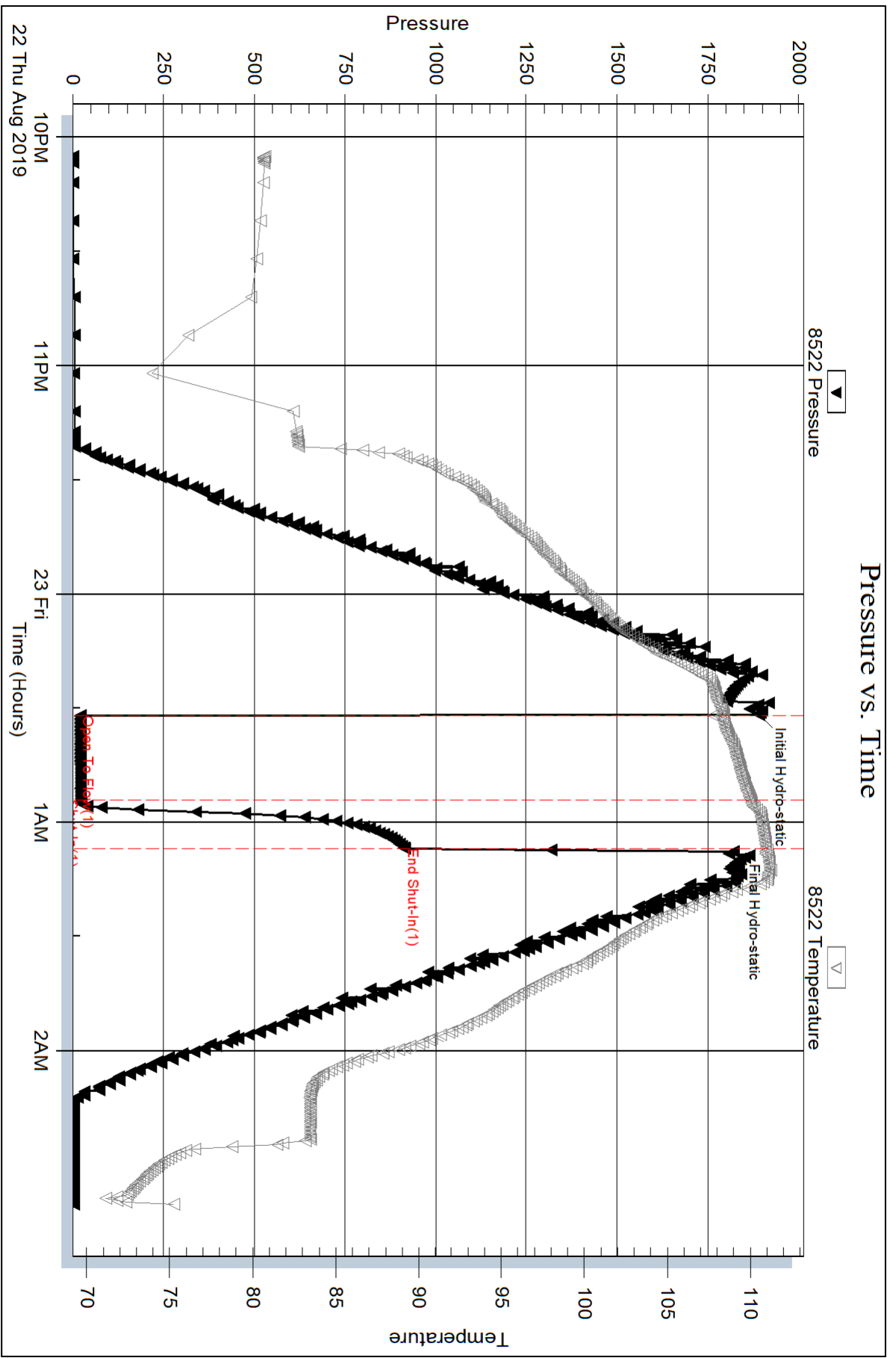
Num Gas Bombs: 0

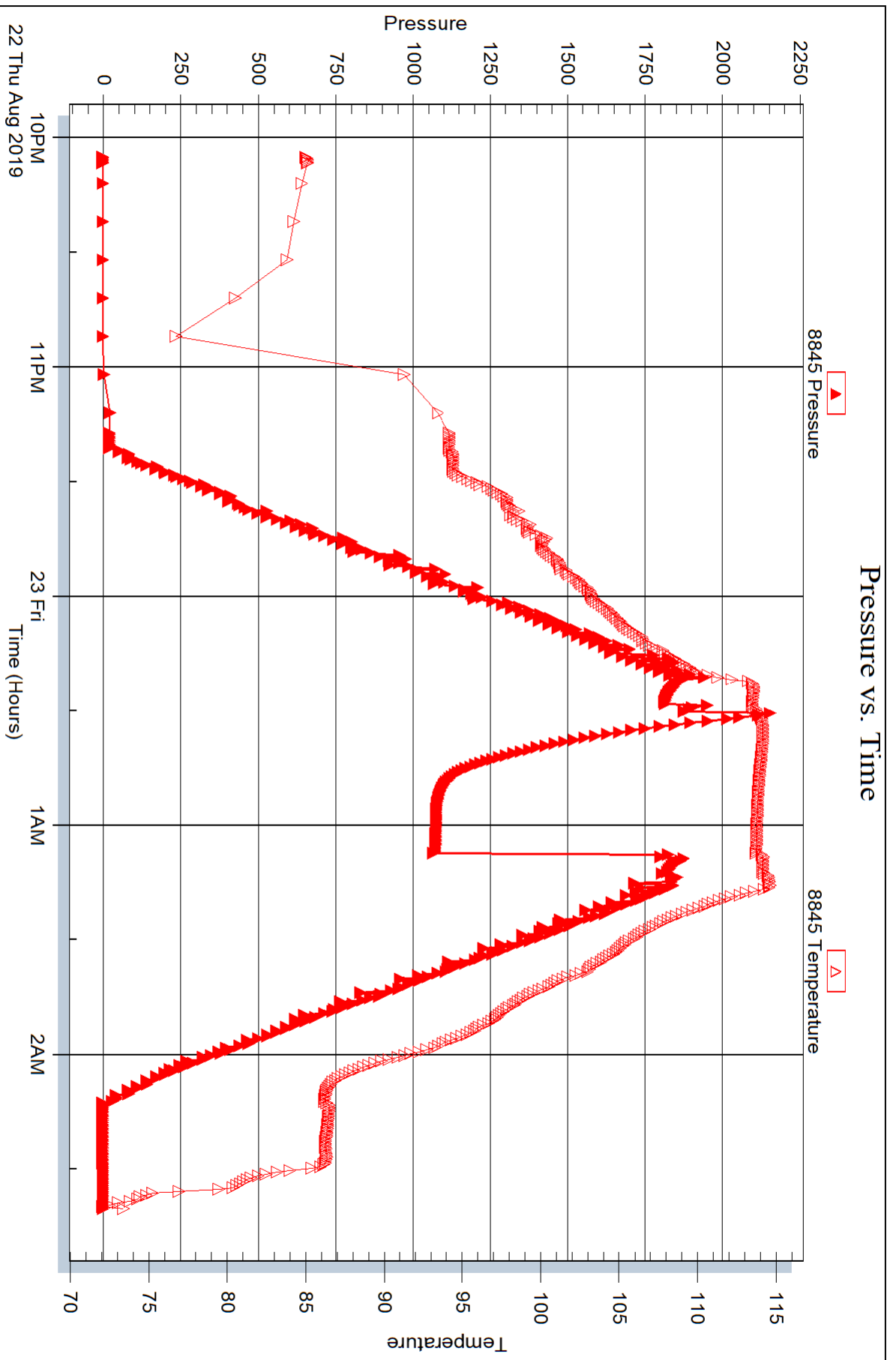
Serial #:

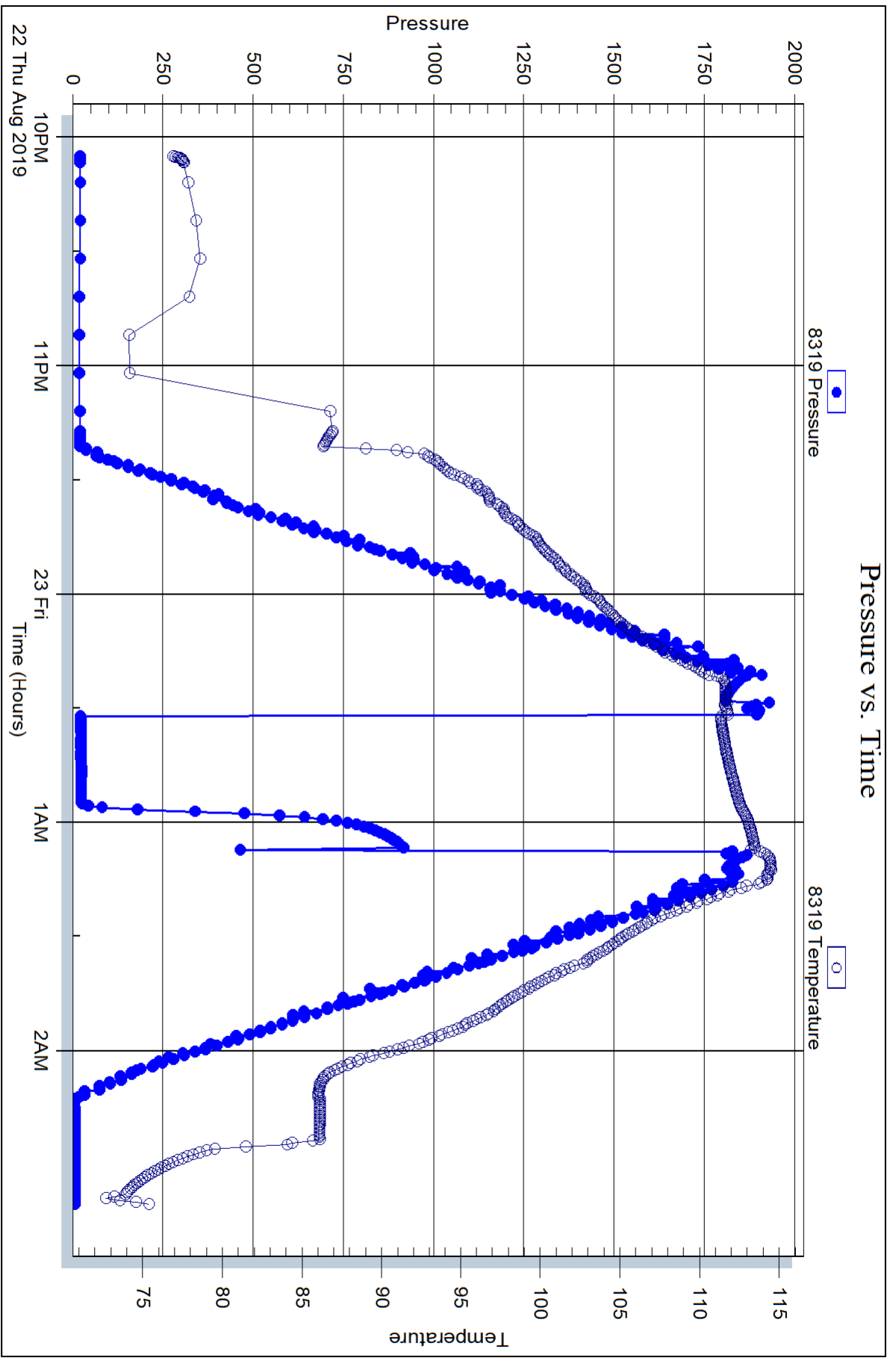
Laboratory Name:

Laboratory Location:

Recovery Comments:











## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources, LLC**

6727 W Prentice Ave  
Lakewood, CO 80123

ATTN: Jim Musgrove

**Bentley #16C-34-1527**

**34-15s-27w Gove,KS**

Start Date: 2019.08.24 @ 03:29:00

End Date: 2019.08.24 @ 10:50:30

Job Ticket #: 64375                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.08.26 @ 10:54:14

US Oil Resources, LLC  
34-15s-27w Gove,KS  
Bentley #16C-34-1527  
DST # 3  
LKC J  
2019.08.24



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

US Oil Resources, LLC  
 6727 W Prentice Ave  
 Lakewood, CO 80123  
 ATTN: Jim Musgrove

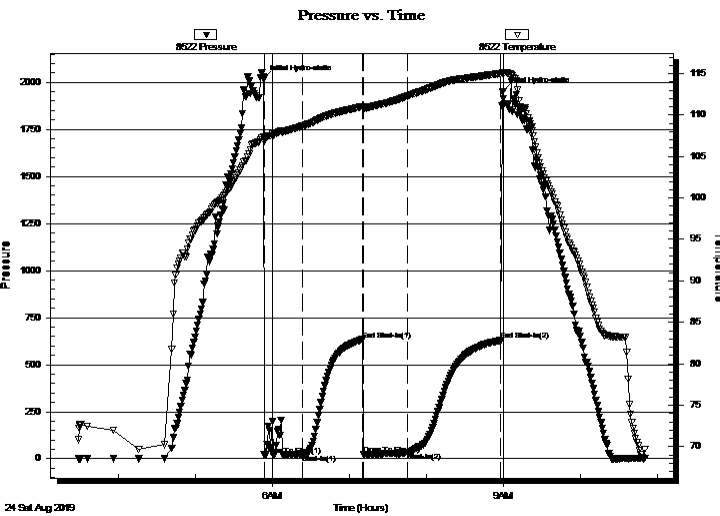
**34-15s-27w Gove, KS**  
**Bentley #16C-34-1527**  
 Job Ticket: 64375 **DST#: 3**  
 Test Start: 2019.08.24 @ 03:29:00

## GENERAL INFORMATION:

Formation: **LKC J**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:53:30  
 Time Test Ended: 10:50:30  
 Interval: **4043.00 ft (KB) To 4076.00 ft (KB) (TVD)**  
 Total Depth: 4076.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 78  
 Reference Elevations: 2557.00 ft (KB)  
 2549.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**  
 Press@RunDepth: 32.76 psig @ 4044.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.08.24 End Date: 2019.08.24 Last Calib.: 2019.08.24  
 Start Time: 03:29:05 End Time: 10:50:29 Time On Btm: 2019.08.24 @ 05:53:15  
 Time Off Btm: 2019.08.24 @ 08:59:15

**TEST COMMENT:** 30- IF: 1 1/4" blow .  
 45- IS: No return.  
 45- FF: 1/2" blow .  
 60- FSI: No return.



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2016.68         | 107.36       | Initial Hydro-static |
| 1           | 21.04           | 106.77       | Open To Flow (1)     |
| 31          | 24.05           | 108.69       | Shut-In(1)           |
| 77          | 632.87          | 111.02       | End Shut-In(1)       |
| 78          | 23.46           | 110.74       | Open To Flow (2)     |
| 112         | 32.76           | 112.29       | Shut-In(2)           |
| 185         | 628.94          | 115.02       | End Shut-In(2)       |
| 186         | 1951.16         | 115.12       | Final Hydro-static   |

## Recovery

| Length (ft) | Description                     | Volume (bbl) |
|-------------|---------------------------------|--------------|
| 20.00       | w cm 20w 80mw /oil spots on top | 0.28         |
|             |                                 |              |
|             |                                 |              |
|             |                                 |              |
|             |                                 |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

ATTN: Jim Musgrove

Job Ticket: 64375

**DST#: 3**

Test Start: 2019.08.24 @ 03:29:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4034.00 ft | Diameter: 3.80 inches | Volume: 56.59 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 65000.00 lb  |
|                           |                    |                       | <u>Total Volume: 56.59 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 18.00 ft           |                       |                                | String Weight: Initial 55000.00 lb |
| Depth to Top Packer:      | 4043.00 ft         |                       |                                | Final 55000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 33.00 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        |            |          | 4017.00    |                               |
| Shut In Tool     | 5.00        |            | Fluid    | 4022.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4027.00    |                               |
| Jars             | 5.00        |            |          | 4032.00    |                               |
| Safety Joint     | 2.00        |            |          | 4034.00    |                               |
| Packer           | 5.00        |            | Inside   | 4039.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4043.00    |                               |
| Stubb            | 1.00        |            |          | 4044.00    |                               |
| Recorder         | 0.00        | 8522       | Inside   | 4044.00    |                               |
| Recorder         | 0.00        | 8319       | Outside  | 4044.00    |                               |
| Perforations     | 29.00       |            |          | 4073.00    |                               |
| Bullnose         | 3.00        |            |          | 4076.00    | 33.00 Bottom Packers & Anchor |

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

US Oil Resources, LLC

**34-15s-27w Gove,KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

Job Ticket: 64375

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2019.08.24 @ 03:29:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description                     | Volume<br>bbl |
|--------------|---------------------------------|---------------|
| 20.00        | w cm 20w 80m w/oil spots on top | 0.281         |

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

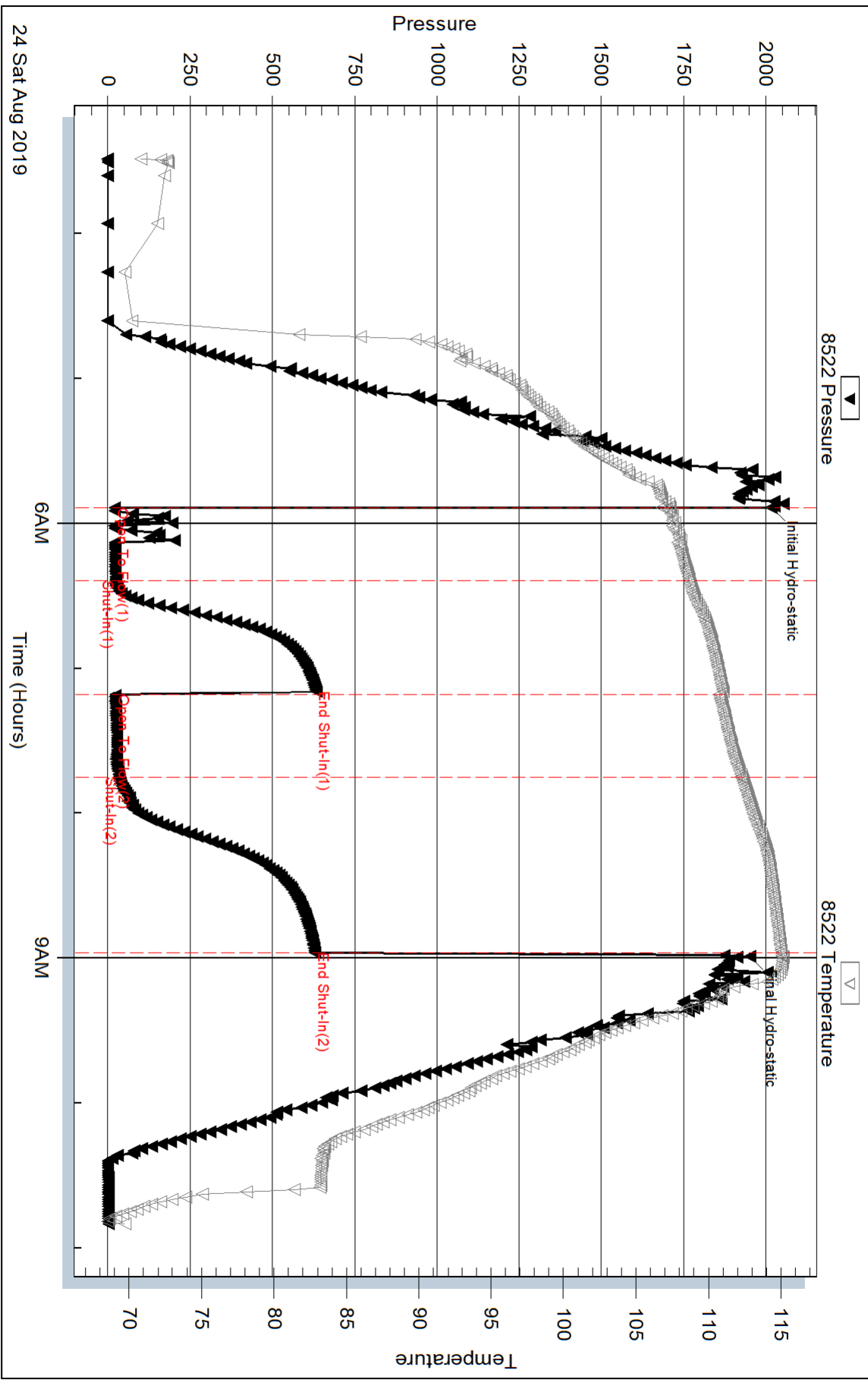
Serial #:

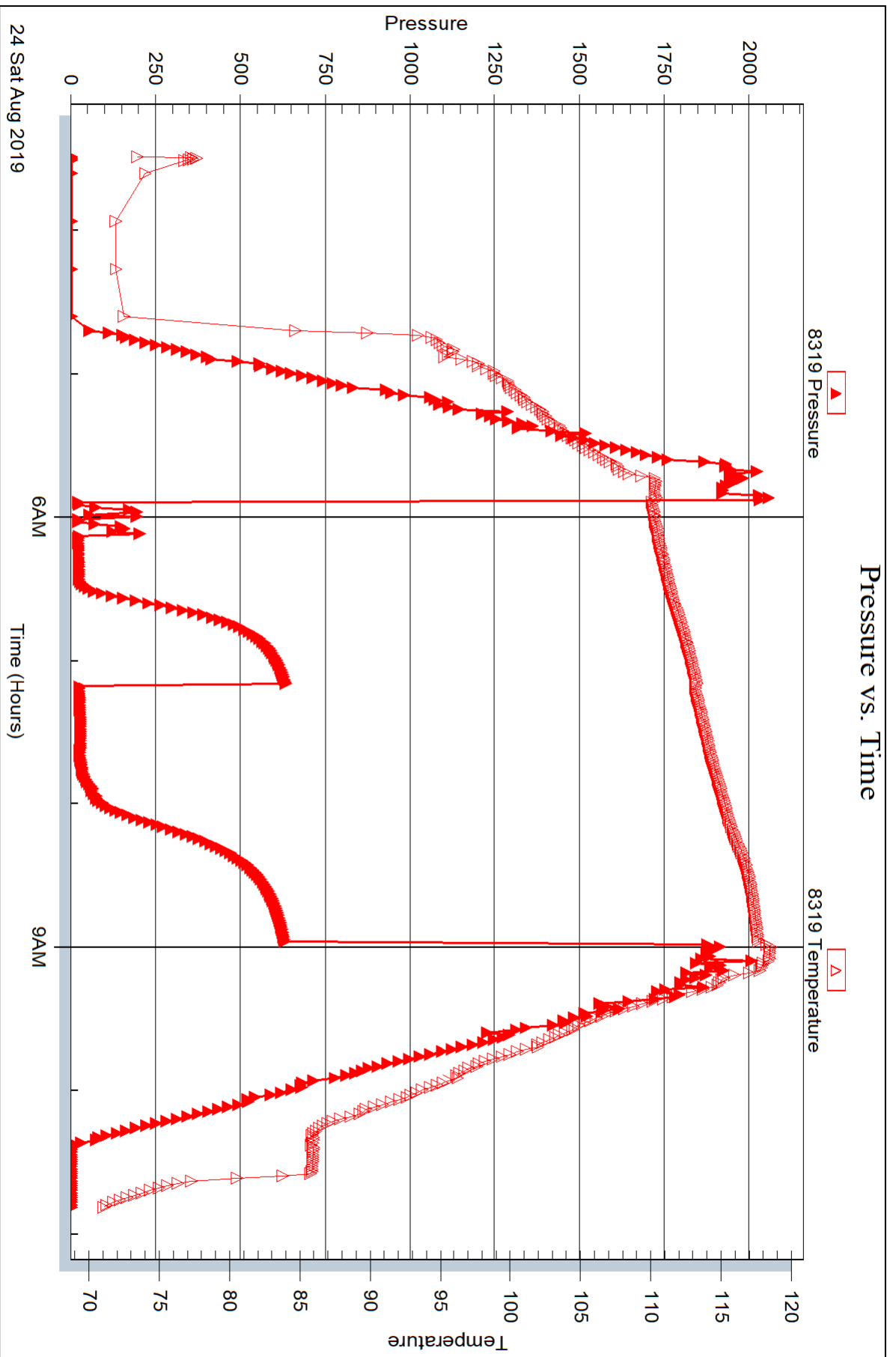
Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .252 @ 70f = 27000ppm

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources, LLC**

6727 W Prentice Ave  
Lakewood, CO 80123

ATTN: Jim Musgrove

**Bentley #16C-34-1527**

**34-15s-27w Gove,KS**

Start Date: 2019.08.25 @ 23:39:00

End Date: 2019.08.26 @ 05:34:30

Job Ticket #: 64801                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.08.26 @ 10:49:59





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

ATTN: Jim Musgrove

Job Ticket: 64801

**DST#: 4**

Test Start: 2019.08.25 @ 23:39:00

## GENERAL INFORMATION:

Formation: **Miss - Warsaw**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:52:15

Time Test Ended: 05:34:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 78

**Interval: 4395.00 ft (KB) To 4405.00 ft (KB) (TVD)**

Reference Elevations: 2557.00 ft (KB)

Total Depth: 4405.00 ft (KB) (TVD)

2549.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 21.75 psig @ 4396.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.25 End Date: 2019.08.26

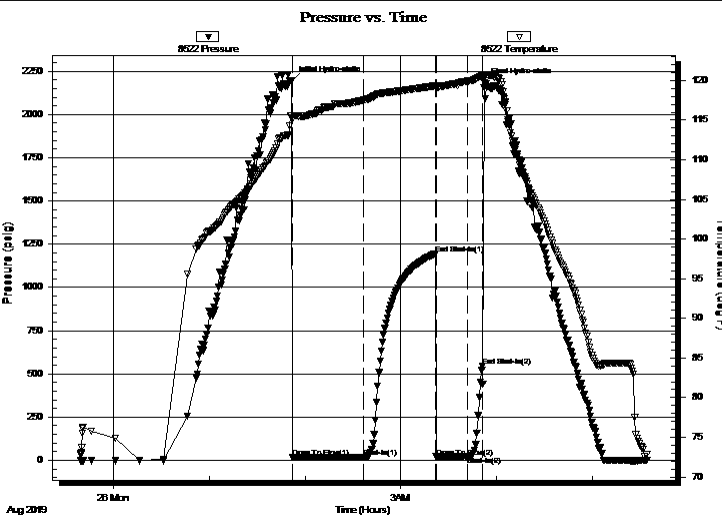
Last Calib.: 2019.08.26

Start Time: 23:39:05 End Time: 05:34:29

Time On Btm: 2019.08.26 @ 01:51:45

Time Off Btm: 2019.08.26 @ 03:52:30

**TEST COMMENT:** 45- IF: 1/2" blow, receded to surface.  
45- IS: No return.  
20- FF: No blow, Flushed tool, No blow.  
Pulled test



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2194.31         | 115.58       | Initial Hydro-static |
| 1           | 17.20           | 115.20       | Open To Flow (1)     |
| 45          | 19.47           | 117.51       | Shut-In(1)           |
| 90          | 1194.20         | 119.32       | End Shut-In(1)       |
| 91          | 20.10           | 119.08       | Open To Flow (2)     |
| 111         | 21.75           | 119.92       | Shut-In(2)           |
| 120         | 544.75          | 120.55       | End Shut-In(2)       |
| 121         | 2184.97         | 120.65       | Final Hydro-static   |

## Recovery

| Length (ft) | Description           | Volume (bbl) |
|-------------|-----------------------|--------------|
| 10.00       | mud 100m (Oil specks) | 0.14         |
|             |                       |              |
|             |                       |              |
|             |                       |              |
|             |                       |              |

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

ATTN: Jim Musgrove

Job Ticket: 64801

**DST#: 4**

Test Start: 2019.08.25 @ 23:39:00

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 4380.00 ft | Diameter: 3.80 inches | Volume: 61.44 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 2.75 inches | Volume: 0.00 bbl               | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 0.00 ft    | Diameter: 2.25 inches | Volume: 0.00 bbl               | Weight to Pull Loose: 75000.00 lb  |
|                           |                    |                       | <u>Total Volume: 61.44 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 12.00 ft           |                       |                                | String Weight: Initial 58000.00 lb |
| Depth to Top Packer:      | 4395.00 ft         |                       |                                | Final 58000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 10.00 ft           |                       |                                |                                    |
| Tool Length:              | 37.00 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        |            |          | 4369.00    |                               |
| Shut In Tool     | 5.00        |            | Fluid    | 4374.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4379.00    |                               |
| Jars             | 5.00        |            |          | 4384.00    |                               |
| Safety Joint     | 2.00        |            |          | 4386.00    |                               |
| Packer           | 5.00        |            | Inside   | 4391.00    | 27.00 Bottom Of Top Packer    |
| Packer           | 4.00        |            |          | 4395.00    |                               |
| Stubb            | 1.00        |            |          | 4396.00    |                               |
| Recorder         | 0.00        | 8522       | Inside   | 4396.00    |                               |
| Recorder         | 0.00        | 8319       | Outside  | 4396.00    |                               |
| Perforations     | 6.00        |            |          | 4402.00    |                               |
| Bullnose         | 3.00        |            |          | 4405.00    | 10.00 Bottom Packers & Anchor |

**Total Tool Length: 37.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

US Oil Resources, LLC

**34-15s-27w Gove, KS**

6727 W Prentice Ave  
Lakewood, CO 80123

**Bentley #16C-34-1527**

Job Ticket: 64801

**DST#: 4**

ATTN: Jim Musgrove

Test Start: 2019.08.25 @ 23:39:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description           | Volume<br>bbl |
|--------------|-----------------------|---------------|
| 10.00        | mud 100m (Oil specks) | 0.140         |

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

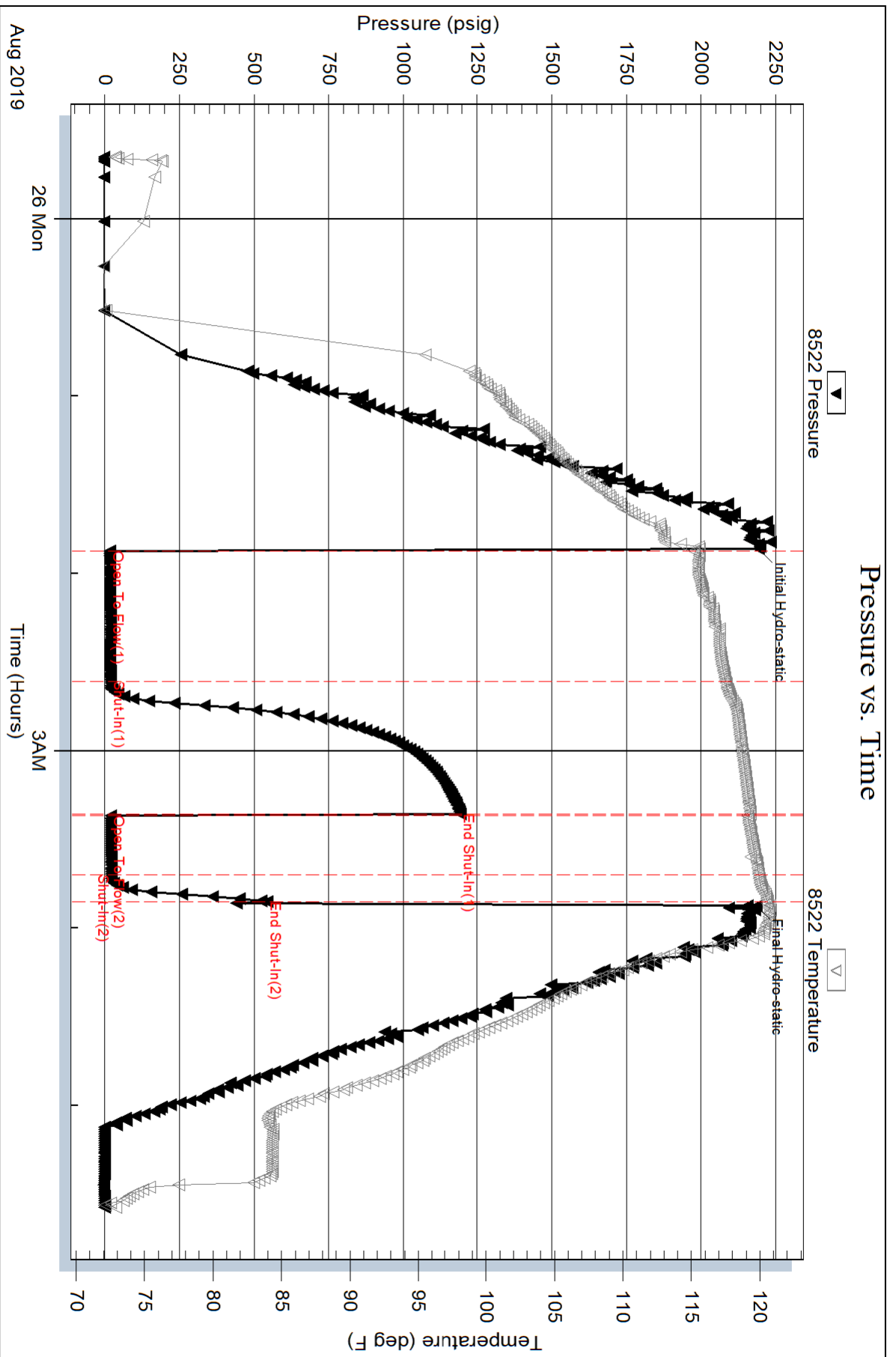
Num Gas Bombs: 0

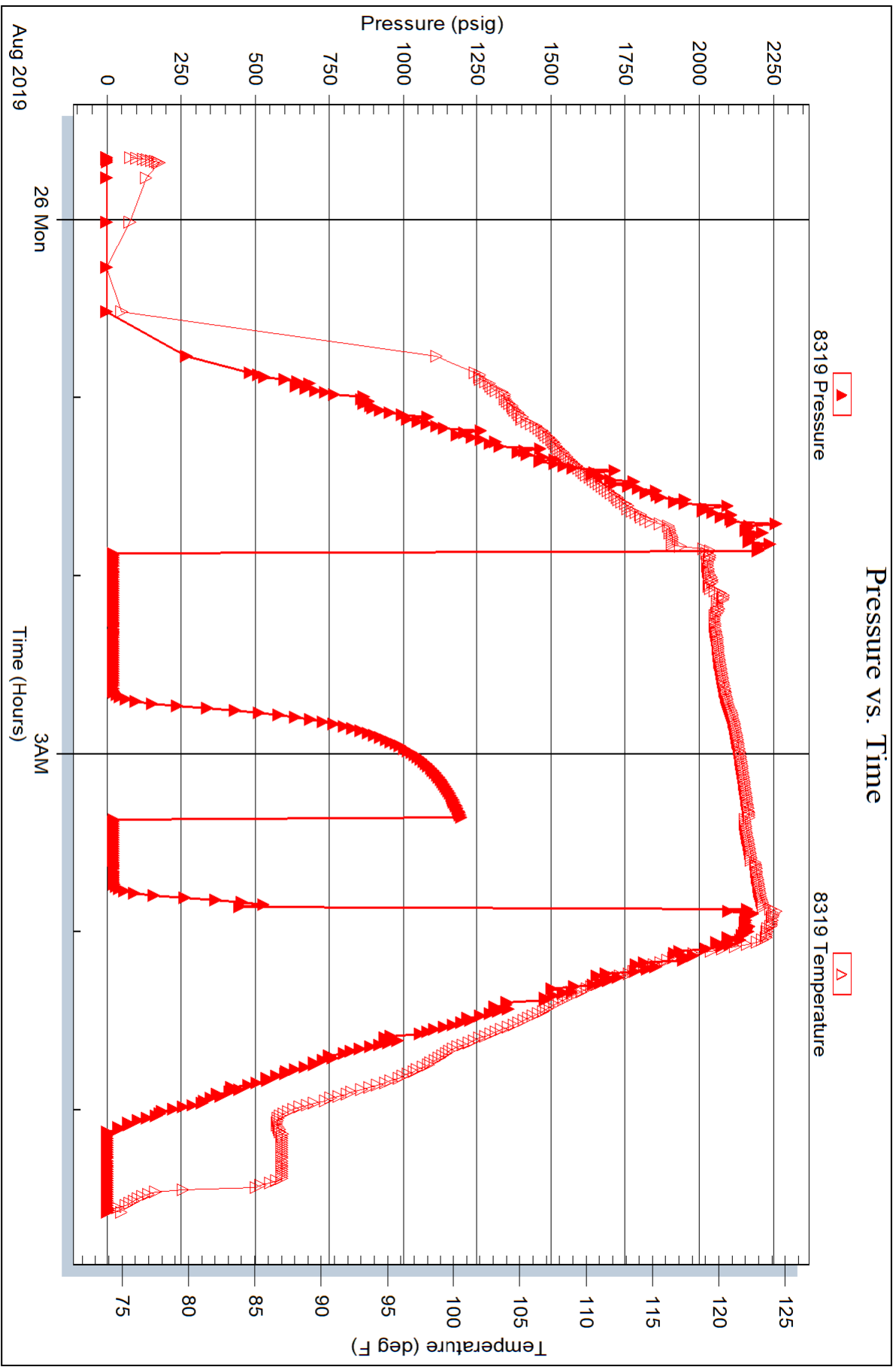
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64373**

Well Name & No. Bentley 16C-34-1527 Test No. 1 Date 8/22/2019  
 Company US Oil Resources, LLC Elevation 2557 KB 2549 GL  
 Address 6727 W Prentice Ave Lakewood, Co 80123  
 Co. Rep / Geo. Jim Musgrove Rig Doke #2  
 Location: Sec. 34 Twp. 15 S Rge. 27W Co. Gove State Ks

Interval Tested 3750 - 3786 Zone Tested Toronto  
 Anchor Length 36' Drill Pipe Run 3753 Mud Wt. 8.9  
 Top Packer Depth 3745 Drill Collars Run 0 Vis 55  
 Bottom Packer Depth 3750 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3786 Chlorides 1500 ppm System LCM 2#

Blow Description IF: 3" blow  
FSI: No return.  
FF: 3" blow  
FSI: No return.

| Rec       | Feet of       | %gas | %oil     | %water    | %mud      |
|-----------|---------------|------|----------|-----------|-----------|
| <u>5</u>  | <u>oil</u>    |      |          |           |           |
| <u>60</u> | <u>50 wcm</u> |      | <u>2</u> | <u>28</u> | <u>70</u> |
|           |               |      |          |           |           |
|           |               |      |          |           |           |
|           |               |      |          |           |           |

Rec Total 65 BHT 112 Gravity 36 API RW .418 @ 69 °F Chlorides 15,000 ppm  
 (A) Initial Hydrostatic 1815  Test 1200 T-On Location 2300 8/21  
 (B) First Initial Flow 24  Jars 250 T-Started 0335 8/22  
 (C) First Final Flow 35  Safety Joint \_\_\_\_\_ T-Open 0638  
 (D) Initial Shut-In 991  Circ Sub \_\_\_\_\_ T-Pulled 0938  
 (E) Second Initial Flow 41  Hourly Standby \_\_\_\_\_ T-Out 1139  
 (F) Second Final Flow 56  Mileage 90 RT 90 Comments \_\_\_\_\_  
 (G) Final Shut-In 979  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1789  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 60

Sub Total 1540

Total 1540

MP/DST Disc# \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64374**

Well Name & No. Bentley 16c -34-1527 Test No. 2 Date 8/23/2019  
 Company US O.I Resources, LLC Elevation 2557 KB 2549 GL  
 Address 6427 W Prentice Ave Lakewood Co 60123  
 Co. Rep / Geo. Jim Musgrove Rig Duke #2  
 Location: Sec. 34 Twp. 15s Rge. 27w Co. Gove State Ks

Interval Tested 3866-3884 Zone Tested LKC D  
 Anchor Length 18 Drill Pipe Run 3846 Mud Wt. 9.0  
 Top Packer Depth 3866 + ~~3984~~ 3861 Drill Collars Run — Vis SS  
<sup>Straddle</sup> Bottom Packer Depth 3884 Wt. Pipe Run — WL 7.2  
 Total Depth 3898 Chlorides 1500 ppm System LCM 2#  
 Blow Description IF 1" blow  
ISI No return.  
Pulled test

| Rec      | Feet of          | %gas | %oil | %water     | %mud |
|----------|------------------|------|------|------------|------|
| <u>7</u> | <u>MUD</u>       |      |      | <u>100</u> |      |
|          | <u>oil spots</u> |      |      |            |      |
|          |                  |      |      |            |      |
|          |                  |      |      |            |      |
|          |                  |      |      |            |      |

Rec Total 7 BHT 111 Gravity — API RW — @ — °F Chlorides — ppm

|                                     |   |  |
|-------------------------------------|---|--|
| (A) Initial Hydrostatic <u>1892</u> | <input checked="" type="checkbox"/> Test <u>1200</u>        | T-On Location <u>2208</u>                    |
| (B) First Initial Flow <u>21</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>         | T-Started <u>2205</u>                        |
| (C) First Final Flow <u>22</u>      | <input type="checkbox"/> Safety Joint                       | T-Open <u>0035</u>                           |
| (D) Initial Shut-In <u>914</u>      | <input type="checkbox"/> Circ Sub                           | T-Pulled <u>0110</u>                         |
| (E) Second Initial Flow <u>—</u>    | <input type="checkbox"/> Hourly Standby                     | T-Out <u>0240</u>                            |
| (F) Second Final Flow <u>—</u>      | <input checked="" type="checkbox"/> Mileage <u>90RT</u> 90  | Comments                                     |
| (G) Final Shut-In <u>—</u>          | <input type="checkbox"/> Sampler                            |  |
| (H) Final Hydrostatic <u>1821</u>   | <input checked="" type="checkbox"/> Straddle <u>600</u>     | <input type="checkbox"/> Ruined Shale Packer |
|                                     | <input checked="" type="checkbox"/> Shale Packer <u>250</u> | <input type="checkbox"/> Ruined Packer       |
| Initial Open <u>30</u>              | <input type="checkbox"/> Extra Packer                       | <input type="checkbox"/> Extra Copies        |
| Initial Shut-In <u>10</u>           | <input type="checkbox"/> Extra Recorder                     | Sub Total <u>0</u>                           |
| Final Flow <u>Pull</u>              | <input type="checkbox"/> Day Standby                        | Total <u>2390</u>                            |
| Final Shut-In                       | <input type="checkbox"/> Accessibility                      | MP/DST Disc't                                |
|                                     | Sub Total <u>2390</u>                                       |  |

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64375**

Well Name & No. Dentley 16c - 34-1527 Test No. 3 Date 8/24/2019  
 Company US Oil Resources, LLC Elevation 2257 KB 2549 GL  
 Address 6427 W Prentice Ave Lakeview Co 80123  
 Co. Rep / Geo. Jim Musgrave Rig \_\_\_\_\_  
 Location: Sec. 34 Twp. 15S Rge. 27W Co. Gove State Ks

Interval Tested 4043 - 4076 Zone Tested LKC J  
 Anchor Length 33 Drill Pipe Run 4034 Mud Wt. 9.2  
 Top Packer Depth 4038 Drill Collars Run 0 Vis 6'  
 Bottom Packer Depth 4043 Wt. Pipe Run 0 WL 1"  
 Total Depth 4076 Chlorides 2400 ppm System LCM 1"  
 Blow Description IT 1 1/4" blow  
IST No return  
FF 1/2" blow  
FST No return.

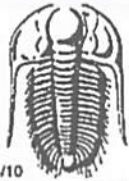
| Rec       | Feet of    | %gas | %oil | %water | %mud                    |
|-----------|------------|------|------|--------|-------------------------|
| <u>20</u> | <u>WCM</u> |      |      |        |                         |
|           |            |      |      |        | <u>oil spots on top</u> |
|           |            |      |      |        |                         |
|           |            |      |      |        |                         |
|           |            |      |      |        |                         |

Rec Total 20 BHT 115 Gravity - API RW .252 @ 70 °F Chlorides 2700 ppm  
 (A) Initial Hydrostatic 2017  Test 1300 T-On Location 0215  
 (B) First Initial Flow 21  Jars 250 T-Started 0229  
 (C) First Final Flow 24  Safety Joint \_\_\_\_\_ T-Open 0556  
 (D) Initial Shut-In 633  Circ Sub \_\_\_\_\_ T-Pulled 0856  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out 1049  
 (F) Second Final Flow 33  Mileage ADRT Comments \_\_\_\_\_  
 (G) Final Shut-In 629  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1951  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1550

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1550  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative 

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64801

Well Name & No. Bentley 16c-34-1527 Test No. 4 Date 8/26/2019  
 Company US Oil Resources, LLC Elevation 2257 KB 2549 GL  
 Address 6427 W Prentice Ave Lake wood Co 80123  
 Co. Rep / Geo. Jim Musgrave Rig Duke #2  
 Location: Sec. 34 Twp 15S Rge. 27W Co. Gove State Ks

Interval Tested 4395-4405 Zone Tested Miss - Warsaw  
 Anchor Length 10' Drill Pipe Run 4380 Mud Wt. 9.1  
 Top Packer Depth 4390 Drill Collars Run 0 Vis 52  
 Bottom Packer Depth 4395 Wt. Pipe Run 0 WL 7.6  
 Total Depth 4405 Chlorides 2700 ppm System LCM 2#

Blow Description IF 1/2" blow to surface receded to surface  
ISI No return.  
FF No blow flushed tool no blow  
PSI Pooled test

| Rec       | Feet of           | %gas | %oil | %water     | %mud |
|-----------|-------------------|------|------|------------|------|
| <u>10</u> | <u>mud</u>        |      |      | <u>100</u> |      |
|           | <u>oil specks</u> |      |      |            |      |
|           |                   |      |      |            |      |
|           |                   |      |      |            |      |
|           |                   |      |      |            |      |

Rec Total 16 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

|                                     |  |  |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>2194</u> | <input checked="" type="checkbox"/> Test <u>1300</u>       | T-On Location <u>2100</u>                    |
| (B) First Initial Flow <u>17</u>    | <input checked="" type="checkbox"/> Jars <u>250</u>        | T-Started <u>2339</u>                        |
| (C) First Final Flow <u>19</u>      | <input type="checkbox"/> Safety Joint                      | T-Open <u>0154</u>                           |
| (D) Initial Shut-In <u>1194</u>     | <input checked="" type="checkbox"/> Circ Sub <u>NC</u>     | T-Pulled <u>0400</u>                         |
| (E) Second Initial Flow <u>20</u>   | <input type="checkbox"/> Hourly Standby                    | T-Out <u>0534</u>                            |
| (F) Second Final Flow <u>22</u>     | <input checked="" type="checkbox"/> Mileage <u>90RT 90</u> | Comments                                     |
| (G) Final Shut-In <u>545</u>        | <input type="checkbox"/> Sampler                           |  |
| (H) Final Hydrostatic <u>2185</u>   | <input type="checkbox"/> Straddle                          | <input type="checkbox"/> EM Tool             |
| Initial Open <u>45</u>              | <input type="checkbox"/> Shale Packer                      | <input type="checkbox"/> Ruined Shale Packer |
| Initial Shut-In <u>45</u>           | <input type="checkbox"/> Extra Packer                      | <input type="checkbox"/> Ruined Packer       |
| Final Flow <u>20</u>                | <input type="checkbox"/> Extra Recorder                    | <input type="checkbox"/> Extra Copies        |
| Final Shut-In <u>Pull</u>           | <input type="checkbox"/> Day Standby                       | Sub Total <u>0</u>                           |
|                                     | <input type="checkbox"/> Accessibility                     | Total <u>1640</u>                            |
|                                     | Sub Total <u>1640</u>                                      | MP/DST Disc't                                |

Approved By \_\_\_\_\_ Our Representative [Signature]  
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