



## DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co**

100 S Main Ste 420  
Wichita, KS 67202

ATTN: Tim Hellman

**1 Ron Piester**

**14-29S-16W Kiowa**

Start Date: 2017.10.13 @ 12:49:41

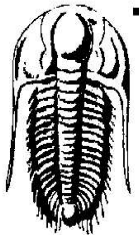
End Date: 2017.10.13 @ 19:44:11

Job Ticket #: 57837

**DST #: 1**

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.10.14 @ 14:54:24



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Lotus Operating Co

100 S Main Ste 420  
Wichita, KS 67202

ATTN: Tim Hellman

**14-29S-16W Kiowa**

**1 Ron Piester**

Job Ticket: 57837

**DST#: 1**

Test Start: 2017.10.13 @ 12:49:41

### GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:16:11

Time Test Ended: 19:44:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 74

**Interval: 4530.00 ft (KB) To 4635.00 ft (KB) (TVD)**

Total Depth: 4635.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2035.00 ft (KB)

2027.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8159 Inside**

Press@RunDepth: 19.84 psig @ 4532.00 ft (KB)

Start Date: 2017.10.13

End Date:

2017.10.13

Start Time: 12:49:42

End Time:

19:44:11

Capacity: 8000.00 psig

Last Calib.: 2017.10.13

Time On Btm: 2017.10.13 @ 15:15:56

Time Off Btm: 2017.10.13 @ 17:51:41

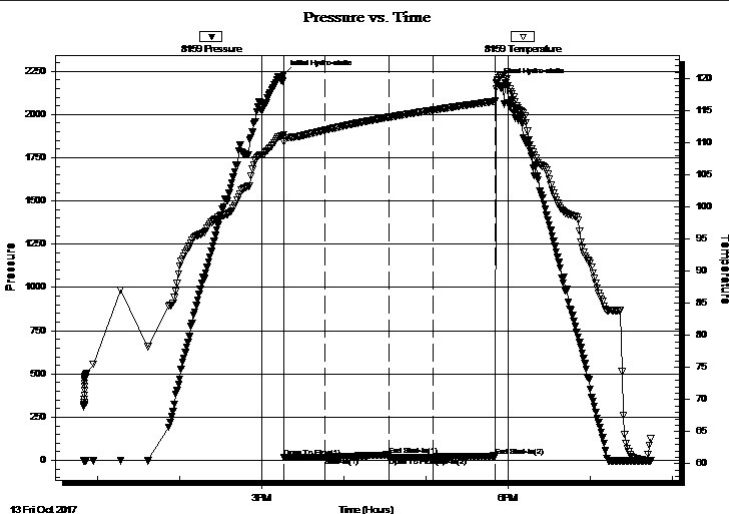
TEST COMMENT: IF: Weak 1/2 inch Blow

IS: No Blow Back

FF: No Blow

FS: No Blow Back

### PRESSURE SUMMARY



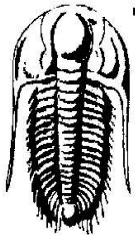
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2231.64         | 111.26       | Initial Hydro-static |
| 1           | 17.77           | 110.25       | Open To Flow (1)     |
| 31          | 18.88           | 111.98       | Shut-In(1)           |
| 77          | 30.86           | 114.02       | End Shut-In(1)       |
| 77          | 19.73           | 113.99       | Open To Flow (2)     |
| 110         | 19.84           | 115.12       | Shut-In(2)           |
| 155         | 26.52           | 116.50       | End Shut-In(2)       |
| 156         | 2185.46         | 119.64       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00        | Mud         | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Lotus Operating Co

**14-29S-16W Kiowa**

100 S Main Ste 420  
Wichita, KS 67202

**1 Ron Piester**

Job Ticket: 57837

**DST#: 1**

ATTN: Tim Hellman

Test Start: 2017.10.13 @ 12:49:41

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 5.00         | Mud         | 0.070         |

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

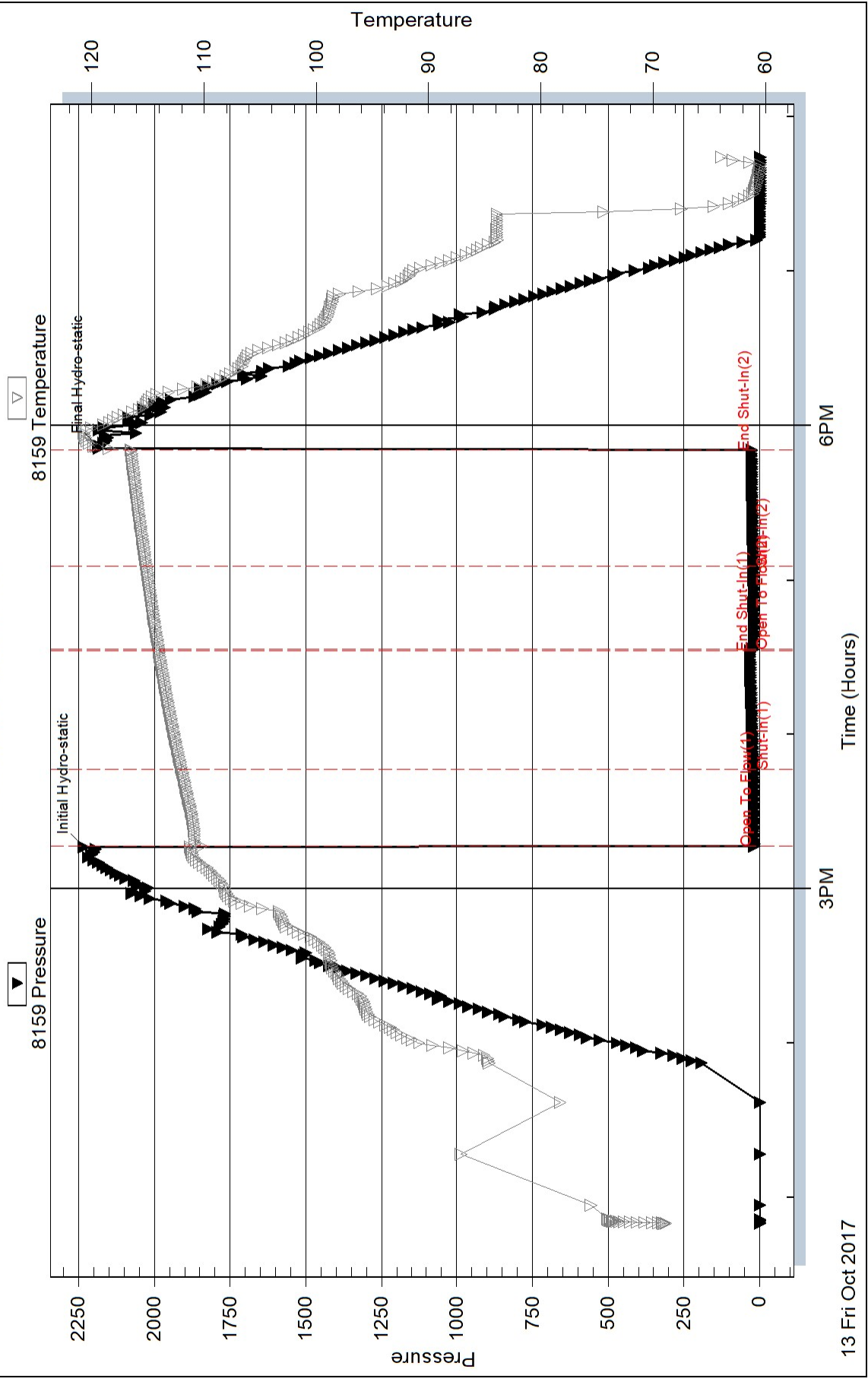
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Lotus Operating Co**

100 S Main Ste 420  
Wichita, KS 67202

ATTN: Tim Hellman

**1 Ron Piester**

**14-29S-16W Kiowa**

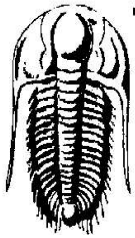
Start Date: 2017.10.14 @ 05:15:22

End Date: 2017.10.14 @ 14:33:22

Job Ticket #: 57838 **DST #: 2**

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.10.14 @ 14:53:40



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Lotus Operating Co

100 S Main Ste 420  
Wichita, KS 67202

ATTN: Tim Hellman

**14-29S-16W Kiowa**

**1 Ron Piester**

Job Ticket: 57838

**DST#: 2**

Test Start: 2017.10.14 @ 05:15:22

### GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:32:07

Time Test Ended: 14:33:22

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 74

**Interval: 4658.00 ft (KB) To 4700.00 ft (KB) (TVD)**

Total Depth: 4700.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2035.00 ft (KB)

2027.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 8159 Inside**

Press@RunDepth: 23.87 psig @ 4659.00 ft (KB)

Start Date: 2017.10.14

End Date:

2017.10.14

Start Time: 05:15:23

End Time:

14:33:22

Capacity: 8000.00 psig

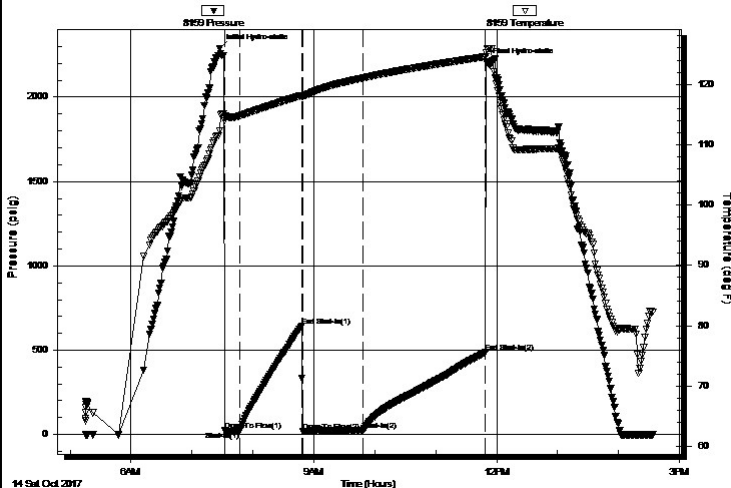
Last Calib.: 2017.10.14

Time On Btm: 2017.10.14 @ 07:27:07

Time Off Btm: 2017.10.14 @ 11:49:37

**TEST COMMENT:** IF: Fair Blow , BOB in 12 minutes  
IS: Weak Surface Blow Back  
FF: Strong Blow , BOB in 10 seconds  
FS: 1/2 inch Blow Back

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2289.01         | 112.25       | Initial Hydro-static |
| 5           | 24.95           | 113.94       | Open To Flow (1)     |
| 21          | 17.29           | 114.77       | Shut-In(1)           |
| 81          | 642.76          | 118.16       | End Shut-In(1)       |
| 82          | 18.11           | 118.03       | Open To Flow (2)     |
| 142         | 23.87           | 121.03       | Shut-In(2)           |
| 262         | 486.31          | 124.56       | End Shut-In(2)       |
| 263         | 2207.53         | 125.23       | Final Hydro-static   |

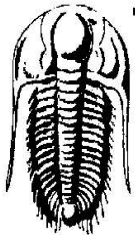
Recovery

| Length (ft) | Description        | Volume (bbl) |
|-------------|--------------------|--------------|
| 0.00        | 950 GIP            | 0.00         |
| 42.00       | GOCM 2%G 10%O 88%M | 0.59         |
|             |                    |              |
|             |                    |              |
|             |                    |              |
|             |                    |              |

Gas Rates

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

\* Recovery from multiple tests



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### FLUID SUMMARY

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Wichita, KS 67202

**1 Ron Piester**

Job Ticket: 57838

**DST#: 2**

ATTN: Tim Hellman

Test Start: 2017.10.14 @ 05:15:22

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 10.38 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description        | Volume<br>bbl |
|--------------|--------------------|---------------|
| 0.00         | 950 GIP            | 0.000         |
| 42.00        | GOCM 2%G 10%O 88%M | 0.589         |

Total Length: 42.00 ft      Total Volume: 0.589 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8159

Inside

Lotus Operating Co

1 Ron Flester

DST Test Number: 2

