



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

## DRILL STEM TEST REPORT

Pioneer Resources Inc

80 Windmill Rd  
Phillipsburg, Ks. 67661

ATTN: Jason Alm

**24-12s-22w Trego Co. Ks**

**Bunker #5**

Job Ticket: 64707

**DST#: 3**

Test Start: 2018.09.26 @ 02:39:01

### GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:38:46

Time Test Ended: 09:50:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3697.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2313.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 30.42 psig @ 3698.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.09.26

End Date:

2018.09.26

Last Calib.: 2018.09.26

Start Time: 02:39:06

End Time:

09:50:30

Time On Btm: 2018.09.26 @ 05:38:01

Time Off Btm: 2018.09.26 @ 07:53:46

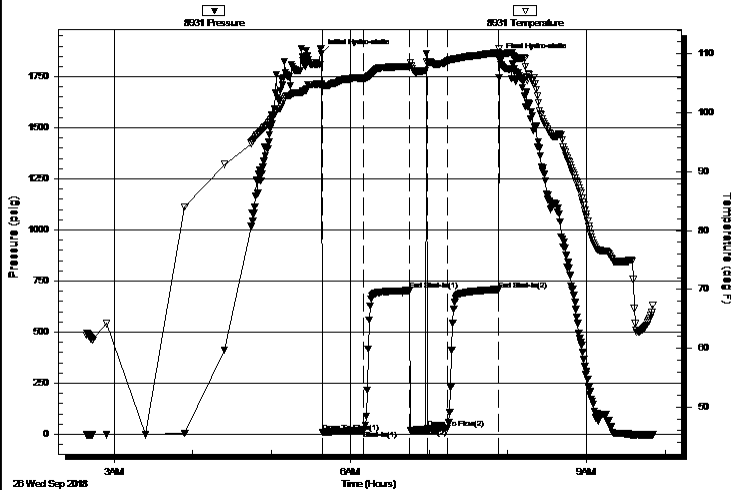
TEST COMMENT: IF: Weak blow . Built to 3/4".

ISI: No blow .

FF: Weak blow . Surface to 1/4".

FSI: No blow .

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1862.03         | 104.97       | Initial Hydro-static |
| 1           | 9.32            | 104.28       | Open To Flow (1)     |
| 32          | 18.26           | 105.88       | Shut-In(1)           |
| 67          | 703.45          | 107.85       | End Shut-In(1)       |
| 81          | 30.22           | 108.22       | Open To Flow (2)     |
| 96          | 30.42           | 108.79       | Shut-In(2)           |
| 135         | 707.75          | 110.16       | End Shut-In(2)       |
| 136         | 1841.34         | 109.72       | Final Hydro-static   |

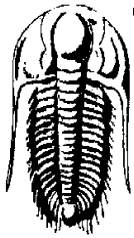
Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 10.00       | Drig Mw O Specs | 0.08         |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |

Gas Rates

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

\* Recovery from multiple tests



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**Bunker #5**

Job Ticket: 64707

**DST#: 3**

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### GENERAL INFORMATION:

Formation: **LKC "G"**

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Time Tool Opened: 05:38:46

Time Test Ended: 09:50:31

Test Type: Conventional Bottom Hole (Reset)

Tester: Matt Smith

Unit No: 68

**Interval: 3697.00 ft (KB) To 3730.00 ft (KB) (TVD)**

Total Depth: 3730.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2318.00 ft (KB)

2313.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8792 Outside**

Press@RunDepth: psig @ 3698.00 ft (KB)

Start Date: 2018.09.26

End Date:

2018.09.26

Start Time: 02:43:15

End Time:

09:50:39

Capacity: 8000.00 psig

Last Calib.: 2018.09.26

Time On Btm:

Time Off Btm:

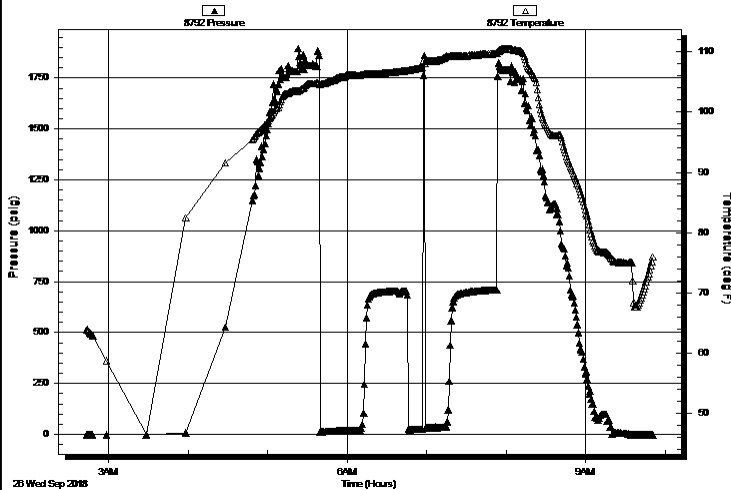
TEST COMMENT: IF: Weak blow . Built to 3/4".

ISI: No blow .

FF: Weak blow . Surface to 1/4".

FSI: No blow .

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

| Length (ft) | Description     | Volume (bbl) |
|-------------|-----------------|--------------|
| 10.00       | Drig Mw O Specs | 0.08         |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |
|             |                 |              |

### Gas Rates

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

\* Recovery from multiple tests



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## DRILL STEM TEST REPORT

### FLUID SUMMARY

Pioneer Resources Inc

**24-12s-22w Trego Co. Ks**

80 Windmill Rd  
Phillipsburg, Ks. 67661

**Bunker #5**

Job Ticket: 64707

**DST#: 3**

ATTN: Jason Alm

Test Start: 2018.09.26 @ 02:39:01

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 53.00 sec/qt

Water Loss: 6.00 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

deg API

Water Salinity: 5000 ppm

ft

bbl

psig

### Recovery Information

Recovery Table

| Length<br>ft | Description     | Volume<br>bbl |
|--------------|-----------------|---------------|
| 10.00        | Drig Mw O Specs | 0.076         |

Total Length: 10.00 ft      Total Volume: 0.076 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

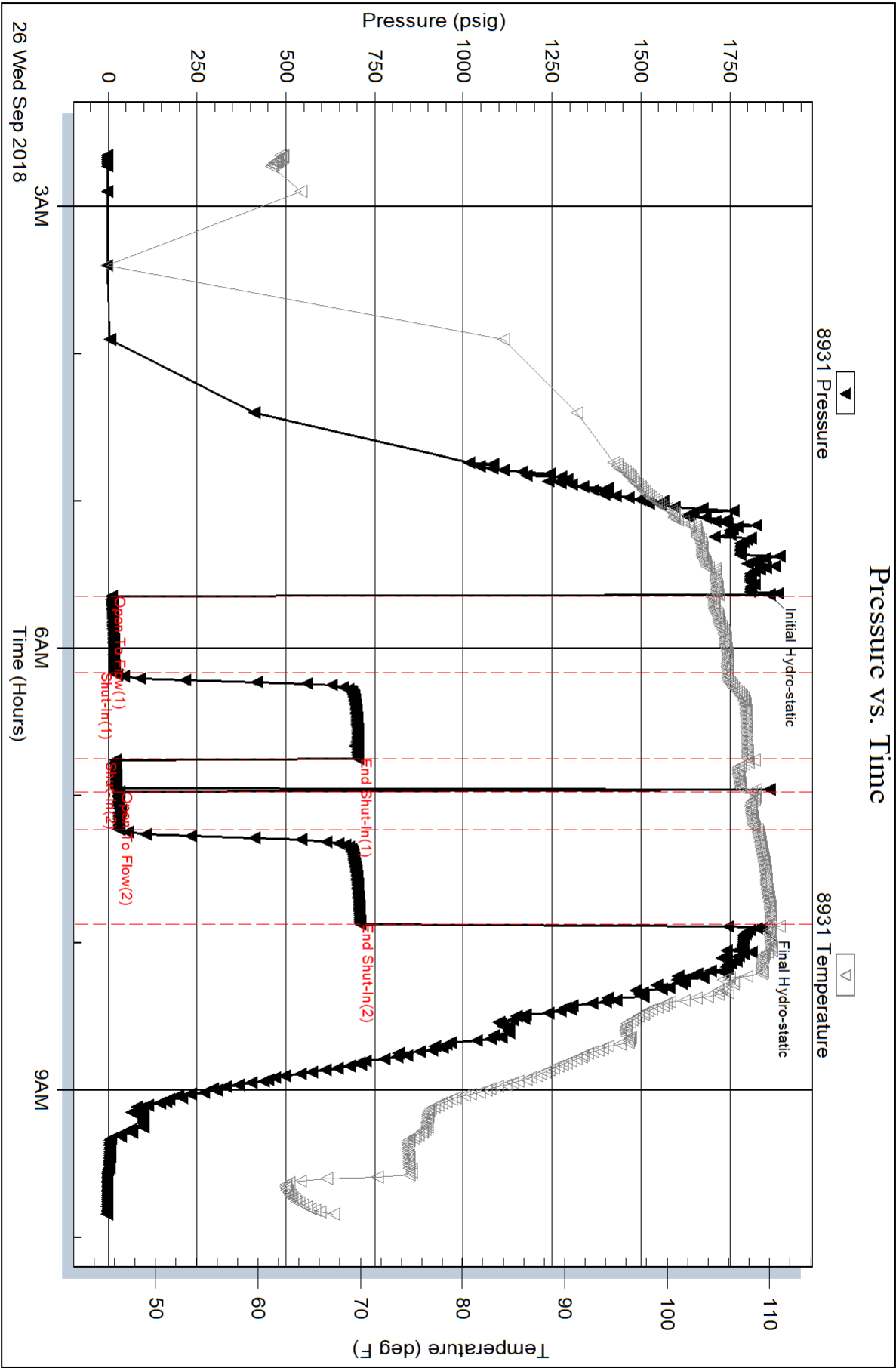
Serial #: 8931

Inside

Pioneer Resources Inc

Bunker #5

DST Test Number: 3



Serial #: 8792

Outside Pioneer Resources Inc

Bunker #5

DST Test Number: 3

