



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Pioneer Resources

**28-12s-14w Russell KS**

**Hopper #1**

Job Ticket: 56060

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2014.01.25 @ 06:19:00

## GENERAL INFORMATION:

Formation: **LKC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:16:30

Time Test Ended: 12:23:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

**Interval: 2786.00 ft (KB) To 2820.00 ft (KB) (TVD)**

Reference Elevations: 1611.00 ft (KB)

Total Depth: 2820.00 ft (KB) (TVD)

1606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 8875 Outside**

Press @ Run Depth: 35.64 psig @ 2787.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.25 End Date: 2014.01.25

Last Calib.: 2014.01.25

Start Time: 06:19:05 End Time: 12:22:59

Time On Btm: 2014.01.25 @ 09:16:15

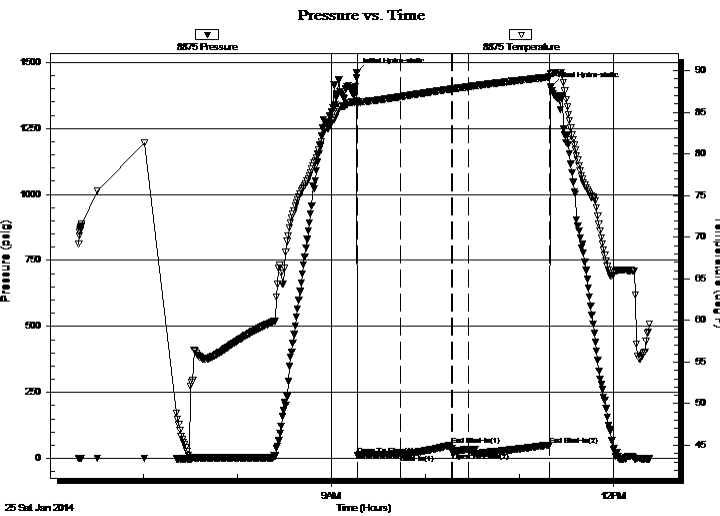
Time Off Btm: 2014.01.25 @ 11:20:00

**TEST COMMENT:** 30 - IF- 1/4" blow , dying @ 20 minutes

30 - IS- No return

15 - FF- Surged and died

45 - FS- No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1462.04	86.38	Initial Hydro-static
1	12.88	86.01	Open To Flow (1)
28	17.55	86.88	Shut-In(1)
60	50.64	87.79	End Shut-In(1)
61	23.48	87.80	Open To Flow (2)
72	35.64	88.07	Shut-In(2)
123	51.10	89.23	End Shut-In(2)
124	1409.89	89.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud, 100%M	0.04

## Gas Rates

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



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Total Depth: 2820.00 ft (KB) (TVD)

1606.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

**Serial #: 6799 Inside**

Press @ Run Depth: psig @ 2787.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.25

End Date:

2014.01.25

Last Calib.:

1899.12.30

Start Time: 06:19:05

End Time:

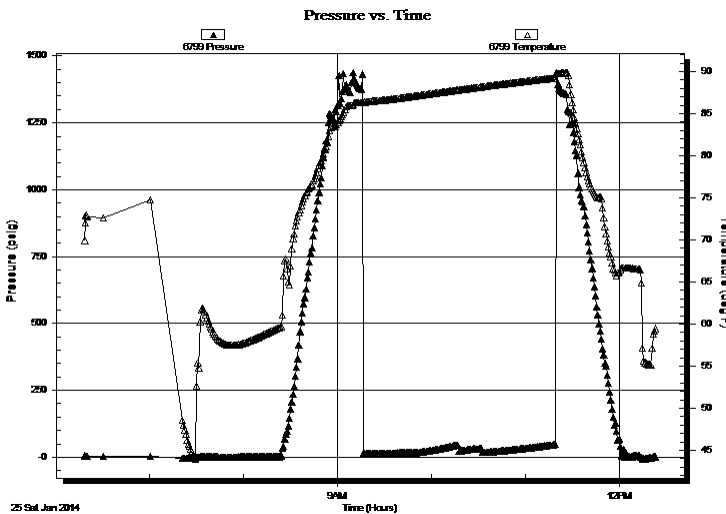
12:23:14

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30 - IF- 1/4" blow, dying @ 20 minutes  
30 - IS- No return  
15 - FF- Surged and died  
45 - FS- No return

### PRESSURE SUMMARY



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

### Recovery

### Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	Mud, 100%M	0.04

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



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pioneer Resources

**28-12s-14w Russell KS**

**Hopper #1**

Job Ticket: 56060

**DST#: 1**

ATTN: Steve Murphy

Test Start: 2014.01.25 @ 06:19:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud, 100%M	0.037

Total Length: 5.00 ft      Total Volume: 0.037 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

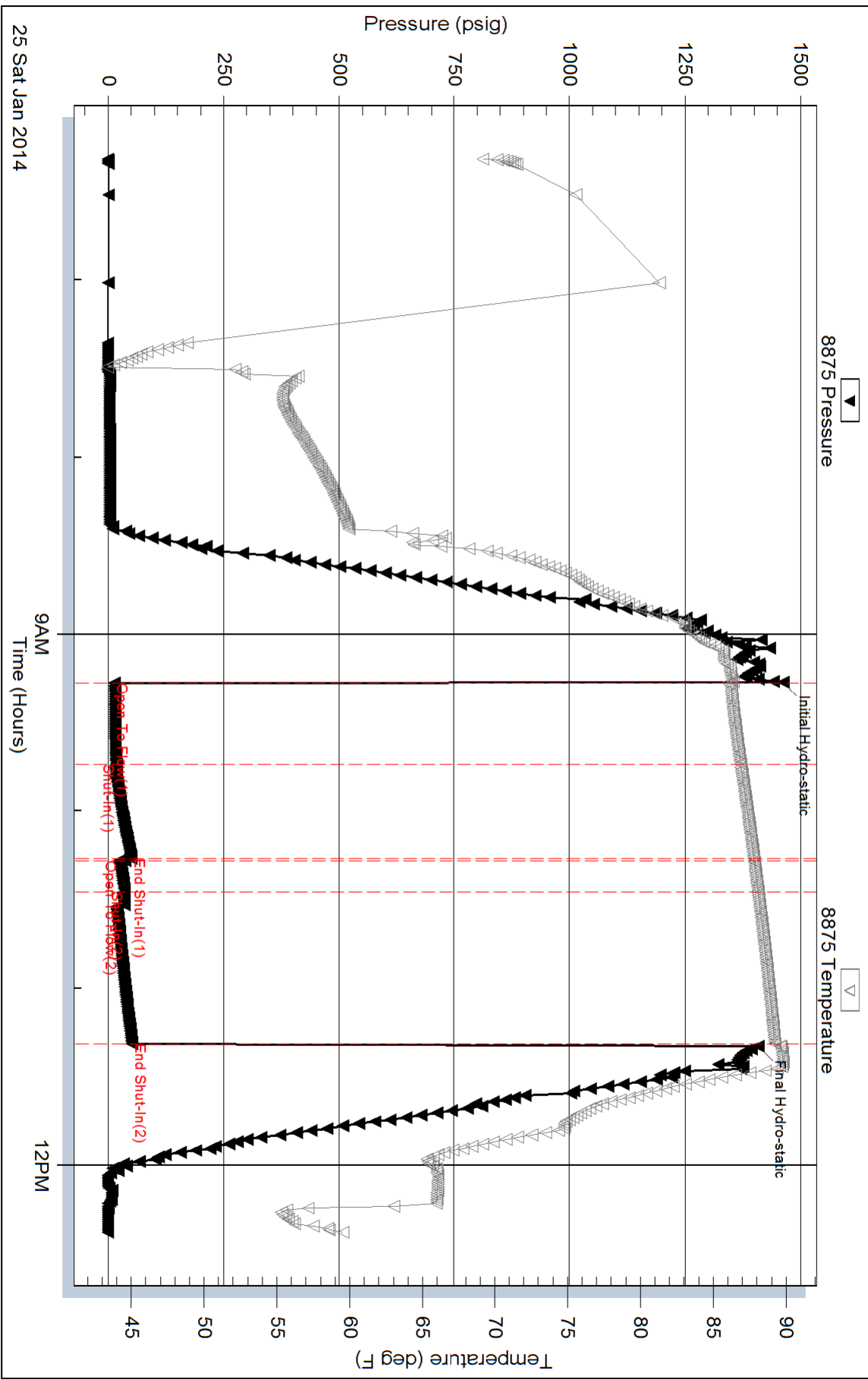
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



Serial #: 6799

Inside

Pioneer Resources

Hopper #1

DST Test Number: 1

