



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Darrah, John Jay, JR.

4/17S/10E Lyon, Ks

P.O. Box 2786
Wichita, Ks
67201

Lee #1

Job Ticket: 63089

DST#: 4

ATTN: Will Darrah/Seth Eve

Test Start: 2016.11.15 @ 13:43:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:36:30

Time Test Ended: 20:27:00

Test Type: Conventional Straddle (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 2908.00 ft (KB) To 2918.00 ft (KB) (TVD)

Reference Elevations: 1255.00 ft (KB)

Total Depth: 3062.00 ft (KB) (TVD)

1246.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6798

Inside

Press@RunDepth: 1029.09 psig @ 2913.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.15

End Date:

2016.11.15

Last Calib.: 1899.12.30

Start Time: 13:43:05

End Time:

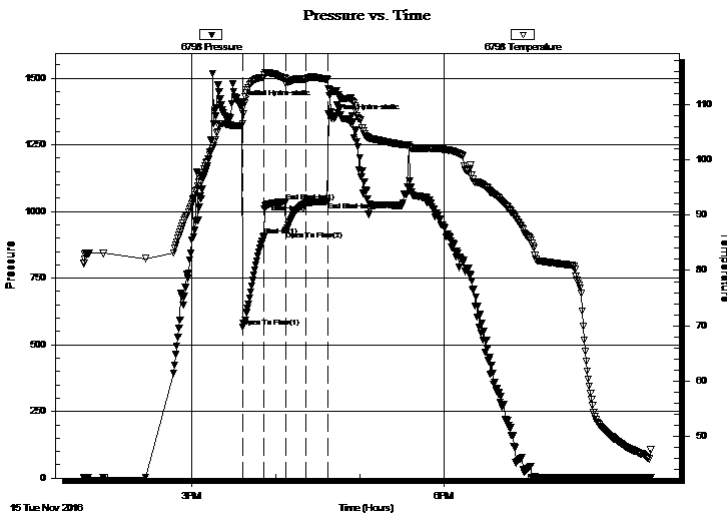
20:26:59

Time On Btm: 2016.11.15 @ 15:35:45

Time Off Btm: 2016.11.15 @ 16:39:45

TEST COMMENT: IF - Strong blow throughout initial flow period.
FF - Strong blow throughout final flow period.
By charts bottom packer did not hold. Misrun.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1402.71	106.24	Initial Hydro-static
1	567.67	106.57	Open To Flow (1)
16	908.21	114.98	Shut-In(1)
31	1035.86	114.78	End Shut-In(1)
32	927.32	113.78	Open To Flow (2)
46	1029.09	114.46	Shut-In(2)
61	1037.38	114.61	End Shut-In(2)
64	1349.24	112.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2280.00	Heavy mud cut w ater 23% M & 77% W	29.82

Gas Rates

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



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Lee #1
 Job Ticket: 63089 **DST#: 4**
 Test Start: 2016.11.15 @ 13:43:00

GENERAL INFORMATION:

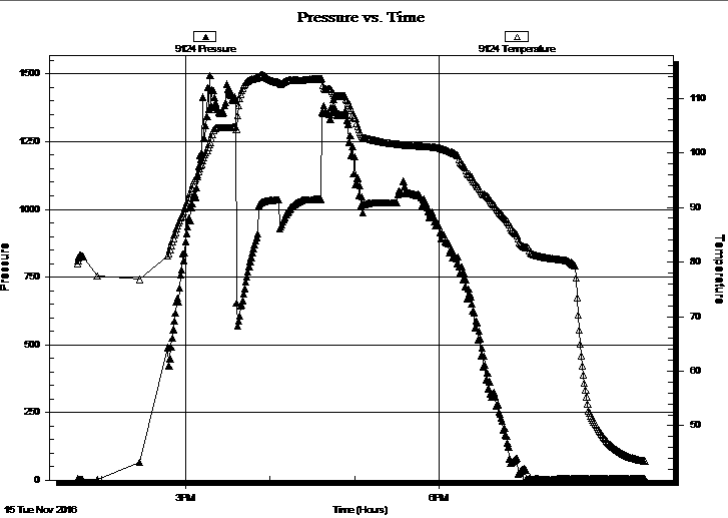
Formation: **Viola**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 15:36:30
 Time Test Ended: 20:27:00
Interval: 2908.00 ft (KB) To 2918.00 ft (KB) (TVD)
 Total Depth: 3062.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Straddle (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1255.00 ft (KB)
 1246.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 9124

Outside

Press@RunDepth: psig @ 2913.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.11.15 End Date: 2016.11.15 Last Calib.: 1899.12.30
 Start Time: 13:43:05 End Time: 20:26:44 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - Strong blow throughout initial flow period.
 FF - Strong blow throughout final flow period.
 By charts bottom packer did not hold. Misrun.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2280.00	Heavy mud cut w ater 23% M & 77% W	29.82

Gas Rates

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



DRILL STEM TEST REPORT

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ATTN: Will Darrah/Seth Eve

4/17S/10E Lyon, Ks

Lee #1

Job Ticket: 63089

DST#: 4

Test Start: 2016.11.15 @ 13:43:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:36:30

Time Test Ended: 20:27:00

Interval: **2908.00 ft (KB) To 2918.00 ft (KB) (TVD)**

Total Depth: 3062.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Reference Elevations: 1255.00 ft (KB)

1246.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8367 Below (Straddle)

Press@RunDepth: psig @ 2919.00 ft (KB)

Start Date: 2016.11.15 End Date: 2016.11.15

Start Time: 13:32:01 End Time: 20:19:30

Capacity: 8000.00 psig

Last Calib.: 1899.12.30

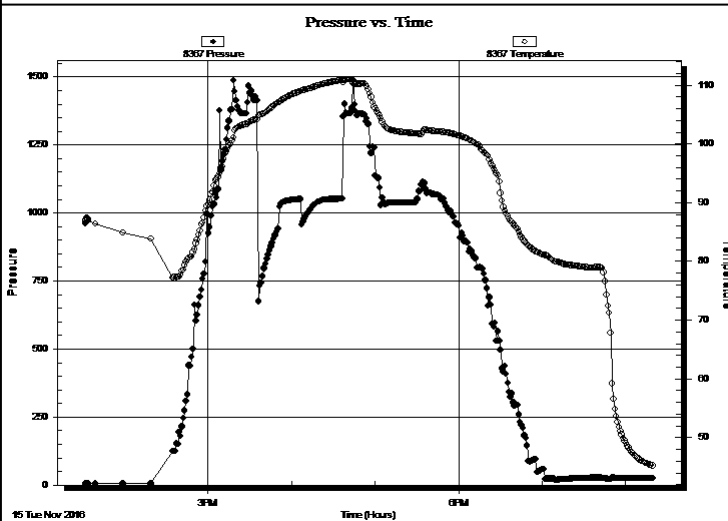
Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Strong blow throughout initial flow period.

FF - Strong blow throughout final flow period.

By charts bottom packer did not hold. Misrun.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2280.00	Heavy mud cut w ater 23% M & 77% W	29.82

Gas Rates

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



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DRILL STEM TEST REPORT

FLUID SUMMARY

Darrah, John Jay, JR.

4/17S/10E Lyon, Ks

P.O. Box 2786
Wichita, Ks
67201

Lee #1

Job Ticket: 63089

DST#: 4

ATTN: Will Darrah/Seth Eve

Test Start: 2016.11.15 @ 13:43:00

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:

11000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2280.00	Heavy mud cut w ater 23% M & 77% W	29.823

Total Length: 2280.00 ft Total Volume: 29.823 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

