



**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: 63088

DST#: 3

ATTN: Will Darrah/Seth Eve

Test Start: 2016.11.14 @ 10:30:00

GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:03:45

Time Test Ended: 18:06:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Interval: 2975.00 ft (KB) To 3000.00 ft (KB) (TVD)

Reference Elevations: 1255.00 ft (KB)

Total Depth: 3000.00 ft (KB) (TVD)

1246.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 6798

Press@RunDepth: 497.42 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.11.14

End Date: 2016.11.14

Last Calib.: 1899.12.30

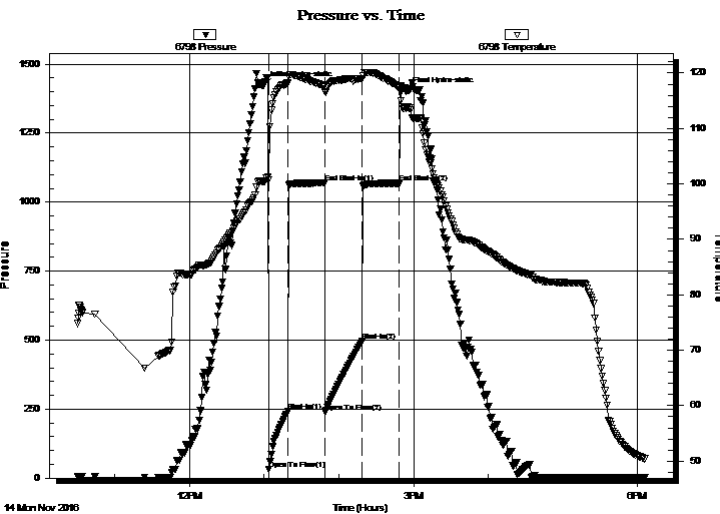
Start Time: 10:30:05

End Time: 18:06:14

Time On Btm: 2016.11.14 @ 12:59:30

Time Off Btm: 2016.11.14 @ 14:53:45

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period.
FF - Weak blow building to strong blow 3 minutes into final flow period.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1422.73	100.44	Initial Hydro-static
5	31.84	100.72	Open To Flow (1)
20	241.06	118.23	Shut-In(1)
49	1069.23	117.70	End Shut-In(1)
50	240.58	116.68	Open To Flow (2)
80	497.42	118.97	Shut-In(2)
110	1068.62	117.41	End Shut-In(2)
115	1400.91	113.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
700.00	Heavy mud cut w ater 14%M & 86% W	7.66
380.00	Mud cut w ater 7% M 93%W	5.33

Gas Rates

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



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Lee #1
 Job Ticket: 63088 **DST#: 3**
 Test Start: 2016.11.14 @ 10:30:00

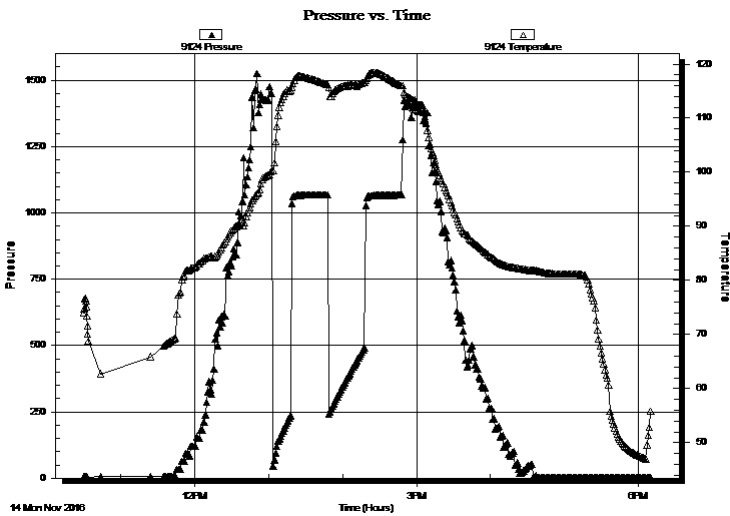
GENERAL INFORMATION:

Formation: Simpson Sand			Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock:	ft (KB)		Tester: Jimmy Ricketts
Time Tool Opened: 13:03:45			Unit No: 80
Time Test Ended: 18:06:15			
Interval: 2975.00 ft (KB) To 3000.00 ft (KB) (TVD)			Reference Elevations: 1255.00 ft (KB)
Total Depth: 3000.00 ft (KB) (TVD)			1246.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF: 9.00 ft

Serial #: 9124

Press@RunDepth: psig @ ft (KB)	Capacity: 8000.00 psig
Start Date: 2016.11.14	End Date: 2016.11.14
Last Calib.: 1899.12.30	
Start Time: 10:30:05	End Time: 18:10:29
	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period.
 FF - Weak blow building to strong blow 3 minutes into final flow period.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
700.00	Heavy mud cut w ater 14%M & 86% W	7.66
380.00	Mud cut w ater 7% M 93%W	5.33

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: 63088

DST#: 3

ATTN: Will Darrah/Seth Eve

Test Start: 2016.11.14 @ 10:30:00

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:

13000 ppm

Viscosity: 47.00 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
700.00	Heavy mud cut w ater 14%M & 86% W	7.660
380.00	Mud cut w ater 7% M 93%W	5.330

Total Length: 1080.00 ft Total Volume: 12.990 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

