



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Herman L. Loeb, LLC

33-27s-18w Kiowa KS

P.O.Box 838
Lawrenceville Il. 62439

Unruh #5-33

Job Ticket: 59747

DST#: 2

ATTN: Jon Christensen

Test Start: 2015.03.16 @ 01:56:45

GENERAL INFORMATION:

Formation: **Cherokee/ Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:05:45

Time Test Ended: 10:35:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Gary Pevoteaux

Unit No: 80

Interval: 4748.00 ft (KB) To 4804.00 ft (KB) (TVD)

Reference Elevations: 2207.00 ft (KB)

Total Depth: 4804.00 ft (KB) (TVD)

2198.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8370

Inside

Press@RunDepth: 28.38 psig @ 4749.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.03.16

End Date:

2015.03.16

Last Calib.:

2015.03.16

Start Time: 01:56:50

End Time:

10:35:45

Time On Btm:

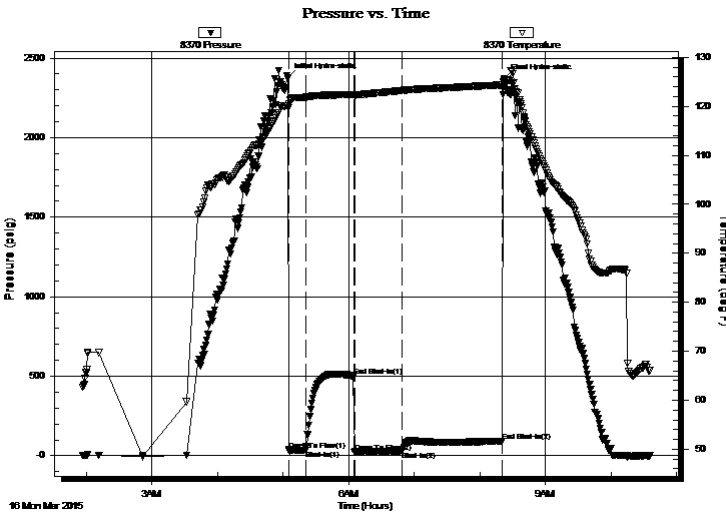
2015.03.16 @ 05:04:15

Time Off Btm:

2015.03.16 @ 08:22:15

TEST COMMENT: IF: Strong blow . B.O.B. in 25 secs.
IS: Strong blow ; B.O.B.
FF: Strong blow . B.O.B. in 2 - 3 secs. GTS in 321 mins. TSTM
FS: Strong blow . B.O.B.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2377.03	120.15	Initial Hydro-static
2	32.56	120.47	Open To Flow (1)
17	34.67	121.83	Shut-In(1)
61	502.90	122.46	End Shut-In(1)
62	24.02	122.21	Open To Flow (2)
105	28.38	123.22	Shut-In(2)
197	92.70	124.39	End Shut-In(2)
198	2371.20	125.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Drig.mud	0.15

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

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Unruh #5-33

Job Ticket: 59747

DST#: 2

ATTN: Jon Christensen

Test Start: 2015.03.16 @ 01:56:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

6000 ppm

Viscosity: 68.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Drig.mud	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8370

Inside

Herman L. Loeb, LLC

Unruh #9-33

DST Test Number: 2

Pressure vs. Time

