



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

GLM Company

4-14s-15w-Russell Co.

PO Box 193
Russell KS 67665

Witt Trust #1

Job Ticket: 60678

DST#: 3

ATTN: Steve Reed

Test Start: 2014.10.27 @ 15:47:48

GENERAL INFORMATION:

Formation: **Lansing A-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:04:08

Time Test Ended: 21:34:57

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 77

Interval: **3006.00 ft (KB) To 3090.00 ft (KB) (TVD)**

Reference Elevations: 1884.00 ft (KB)

Total Depth: 3090.00 ft (KB) (TVD)

1877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8897

Inside

Press @ Run Depth: 844.58 psig @ 3007.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.10.27

End Date:

2014.10.27

Last Calib.:

2014.10.27

Start Time: 15:47:49

End Time:

21:34:58

Time On Btm:

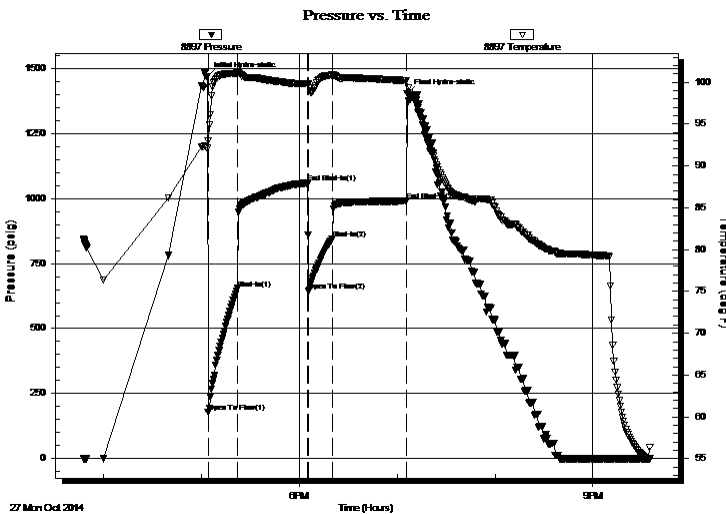
2014.10.27 @ 17:03:38

Time Off Btm:

2014.10.27 @ 19:06:08

TEST COMMENT: 15-B.O.B. In 1 min
45-Dead no blow back
15-B.O.B. In 1 min
45-Weak surface blow back built to 2 in.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1470.21	92.14	Initial Hydro-static
1	177.67	93.00	Open To Flow (1)
19	654.27	101.11	Shut-In(1)
62	1059.38	99.87	End Shut-In(1)
62	645.49	99.70	Open To Flow (2)
77	844.58	100.84	Shut-In(2)
123	990.65	100.20	End Shut-In(2)
123	1405.53	100.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
32.00	WCGOM 10%G 15%O 5%W 70%M	0.45
256.00	WMCGO 20%G 30%O 20%W 30%M	3.59
512.00	GOCMW 15%G 15%O 50%W 20%M	7.18
256.00	MWCGO 40%G 20%O 30%W 10%M	3.59
320.00	SGOCMW 3%G 2%O 90%W 5%M	4.49
0.00	416 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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DST#: 3

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Test Start: 2014.10.27 @ 15:47:48

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:

41000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
32.00	WCGOM 10%G 15%O 5%W 70%M	0.449
256.00	WMCGO 20%G 30%O 20%W 30%M	3.591
512.00	GOCMW 15%G 15%O 50%W 20%M	7.182
256.00	MVCGO 40%G 20%O 30%W 10%M	3.591
320.00	SGOCMW 3%G 2%O 90%W 5%M	4.489
0.00	416 GIP	0.000

Total Length: 1376.00 ft Total Volume: 19.302 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .281 @ 58 F = 41000

Serial #: 8897

Inside

GLM Company

With Trust#1

DST Test Number: 3

Pressure vs. Time

