



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Russell Oil Inc
 P.O. Box 8050
 Edmond, Ok 73083
 ATTN: Kitt Noah

35-12s-33w Logan Ks
Joseph 35-1
 Job Ticket: 59030 **DST#: 2**
 Test Start: 2014.08.28 @ 17:53:40

GENERAL INFORMATION:

Formation: **C-D**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:18:10
 Time Test Ended: 01:54:40
 Interval: **4084.00 ft (KB) To 4140.00 ft (KB) (TVD)**
 Total Depth: 4140.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brandon Turley
 Unit No: 60
 Reference Elevations: 3095.00 ft (KB)
 3084.00 ft (CF)
 KB to GR/CF: 11.00 ft

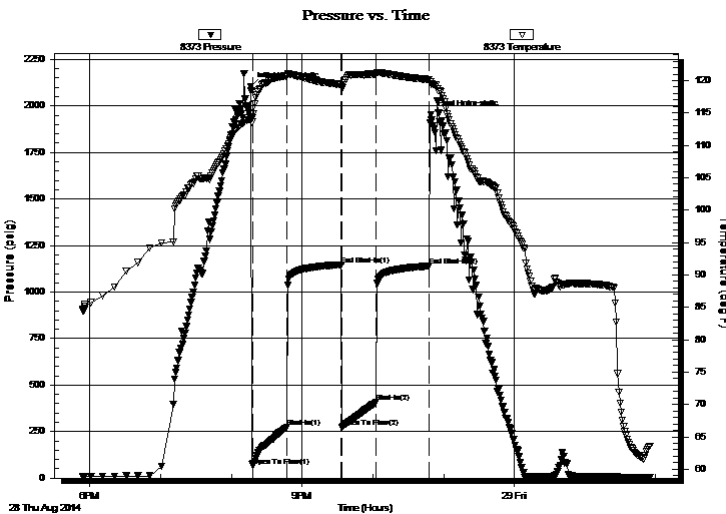
Serial #: 8373

Inside

Press@RunDepth: 407.35 psig @ 4085.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.28 End Date: 2014.08.29 Last Calib.: 2014.08.29
 Start Time: 17:53:45 End Time: 01:54:39 Time On Btm: 2014.08.28 @ 20:16:10
 Time Off Btm: 2014.08.28 @ 22:49:10

TEST COMMENT: IF: BOB in 9 min.
 IS: No return.
 FF: BOB in 12 min.
 FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2103.10	113.99	Initial Hydro-static
2	66.36	114.25	Open To Flow (1)
31	273.37	120.70	Shut-In(1)
77	1147.77	119.38	End Shut-In(1)
78	273.64	118.98	Open To Flow (2)
107	407.35	121.01	Shut-In(2)
152	1140.21	120.15	End Shut-In(2)
153	1952.12	119.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
434.00	mcw 95%w 5%m	3.80
186.00	mcw 80%w 20%m	2.61
248.00	mcw 60%w 40%m	3.48

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Joseph 35-1

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DST#: 2

ATTN: Kitt Noah

Test Start: 2014.08.28 @ 17:53:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

40000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
434.00	mcw 95%w 5%m	3.801
186.00	mcw 80%w 20%m	2.609
248.00	mcw 60%w 40%m	3.479

Total Length: 868.00 ft Total Volume: 9.889 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .19@68=40000

