



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: 59032 **DST#: 4**
 Test Start: 2014.08.30 @ 08:38:29

GENERAL INFORMATION:

Formation: **LKC I**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 10:54:29 Tester: Brandon Turley
 Time Test Ended: 16:59:29 Unit No: 60
 Interval: **4234.00 ft (KB) To 4264.00 ft (KB) (TVD)** Reference Elevations: 3095.00 ft (KB)
 Total Depth: 4264.00 ft (KB) (TVD) 3084.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8373

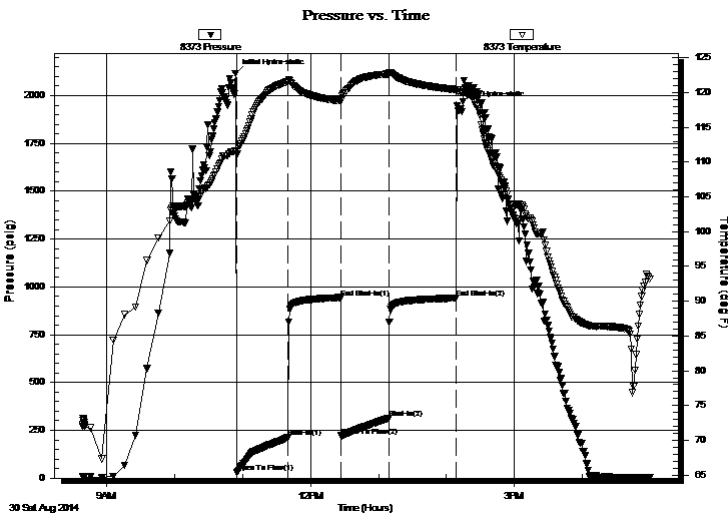
Inside

Press@RunDepth: 314.33 psig @ 4235.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.08.30 End Date: 2014.08.30 Last Calib.: 2014.08.30
 Start Time: 08:38:34 End Time: 16:59:28 Time On Btm: 2014.08.30 @ 10:53:29
 Time Off Btm: 2014.08.30 @ 14:09:29

TEST COMMENT: IF: BOB in 38 min.
 IS: No return.
 FF: Surface blow built to 8 in 45 min.
 FS: No return.

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2116.63	111.57	Initial Hydro-static
1	29.81	111.21	Open To Flow (1)
47	211.35	121.54	Shut-In(1)
93	944.01	118.77	End Shut-In(1)
94	220.76	118.95	Open To Flow (2)
136	314.33	122.67	Shut-In(2)
195	941.18	120.39	End Shut-In(2)
196	1945.40	120.32	Final Hydro-static



Recovery

Length (ft)	Description	Volume (bbl)
310.00	mcw 95% w 5% m	2.06
186.00	mcw 80% w 20% m	2.61
186.00	mw oil spots 50% w 50% m	2.61

* 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#: 4

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Test Start: 2014.08.30 @ 08:38:29

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:

15000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	mcw 95% w 5%m	2.062
186.00	mcw 80%w 20%m	2.609
186.00	mw oil spots 50%w 50%m	2.609

Total Length: 682.00 ft Total Volume: 7.280 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .35@92=15000

