



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Russel Oil, Inc.
PO Box 8050
Edmond, OK 73083
ATTN: Kitt Noah

23-11s-32w Logan co.
Maurath " C " #23-1
Job Ticket: 56710 **DST#: 2**
Test Start: 2014.01.20 @ 01:49:00

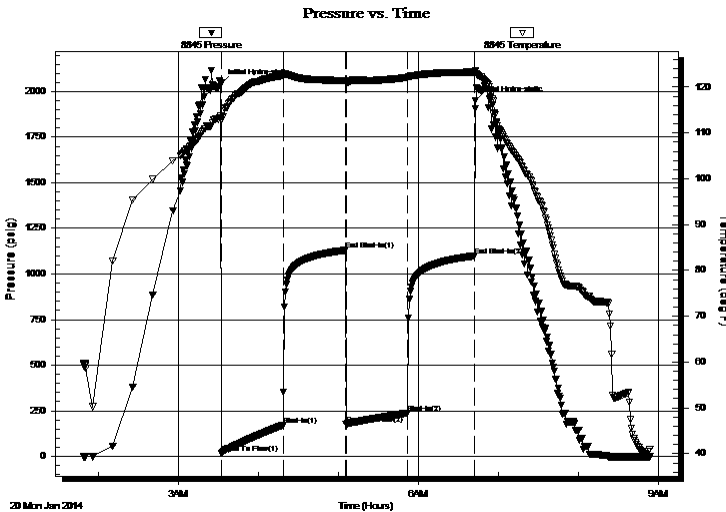
GENERAL INFORMATION:

Formation: **LCK " E-F "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:32:15
Time Test Ended: 08:53:15
Interval: **4124.00 ft (KB) To 4160.00 ft (KB) (TVD)**
Total Depth: 4160.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Sam Esparza
Unit No: 71
Reference Elevations: 3034.00 ft (KB)
3023.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 8845 Outside
Press @ Run Depth: 237.32 psig @ 4125.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.01.20 End Date: 2014.01.20 Last Calib.: 2014.01.20
Start Time: 01:49:05 End Time: 08:53:14 Time On Btm: 2014.01.20 @ 03:32:00
Time Off Btm: 2014.01.20 @ 06:42:30

TEST COMMENT: IF: 10" Blow .
IS: No Return.
FF: 10 1/4" Blow .
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2045.90	113.68	Initial Hydro-static
1	16.73	112.92	Open To Flow (1)
47	171.56	122.59	Shut-In(1)
94	1130.71	121.37	End Shut-In(1)
94	176.06	120.84	Open To Flow (2)
140	237.32	122.11	Shut-In(2)
190	1099.17	123.26	End Shut-In(2)
191	1951.51	123.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	MCW 10m 90w	1.77
120.00	WCM 40w 60m	1.63

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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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:	65000 ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in ³	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	MCW 10m 90w	1.770
120.00	WCM 40w 60m	1.629

Total Length: 480.00 ft Total Volume: 3.399 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Water Salinity: .192 @ 42 degrees= 65,000 ppm

