

**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: 56708 **DST#: 1**  
Test Start: 2014.01.19 @ 05:24:00

## GENERAL INFORMATION:

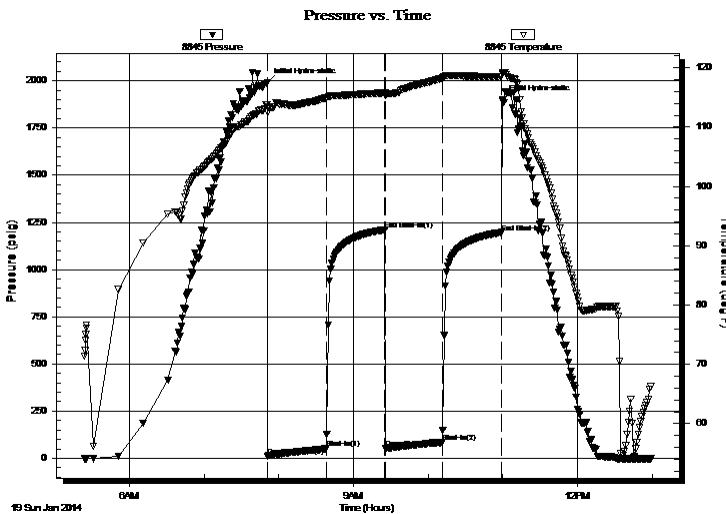
Formation: **LKC " C "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:51:15  
Time Test Ended: 12:58:45  
Interval: **4074.00 ft (KB) To 4100.00 ft (KB) (TVD)**  
Total Depth: 4100.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
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: 86.23 psig @ 4075.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.01.19 End Date: 2014.01.19 Last Calib.: 2014.01.19  
Start Time: 05:24:05 End Time: 12:58:44 Time On Btm: 2014.01.19 @ 07:51:00  
Time Off Btm: 2014.01.19 @ 11:00:00

TEST COMMENT: IF: 3 1/2" Blow .  
IS: No Return.  
FF: No Blow . Flushed Tool @ 10 min. 1 1/4" Blow .  
FS: No Return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1989.31	113.80	Initial Hydro-static
1	12.15	112.55	Open To Flow (1)
48	52.67	114.93	Shut-In(1)
95	1210.60	115.80	End Shut-In(1)
95	53.69	115.28	Open To Flow (2)
141	86.23	118.24	Shut-In(2)
188	1196.82	118.57	End Shut-In(2)
189	1899.83	119.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
90.00	MCW 20m 80w	0.44
30.00	WCM 40w 60m ( Oil Spots )	0.15

## 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:	46000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

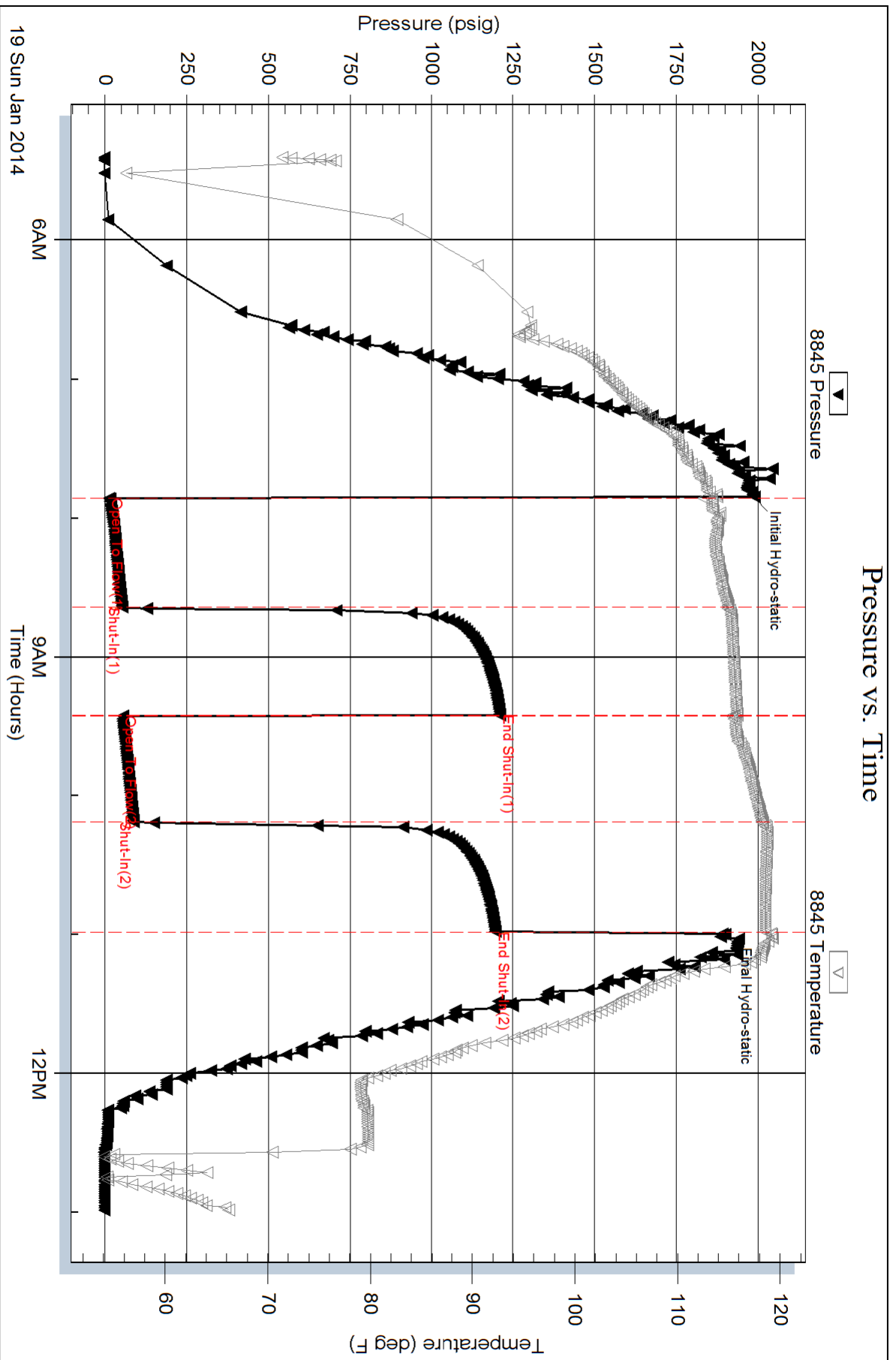
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	MCW 20m 80w	0.443
30.00	WCM 40w 60m ( Oil Spots )	0.148

Total Length: 120.00 ft      Total Volume: 0.591 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Water Salinity: .171 @ 63 degrees= 46,000 ppm

### Pressure vs. Time



Serial #: 6772

Outside Russel Oil, Inc.

Maurath "C" #23-1

DST Test Number: 1

