



**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: 56712      **DST#: 4**  
Test Start: 2014.01.22 @ 18:08:00

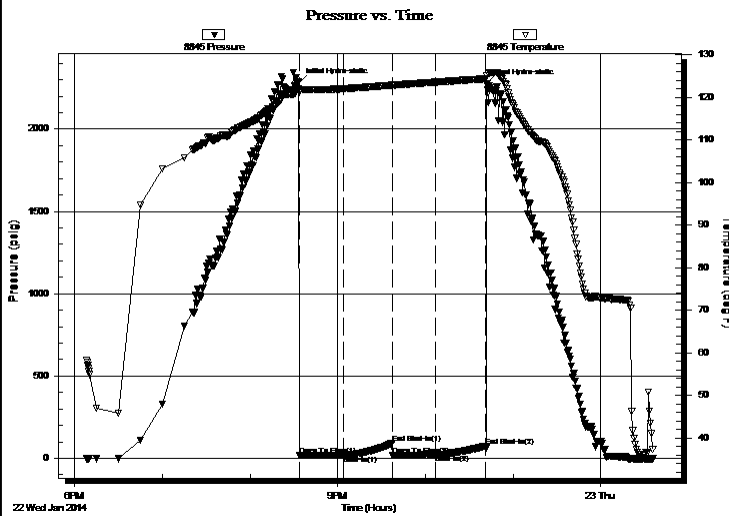
## GENERAL INFORMATION:

Formation: **Johnson**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 20:33:45  
Time Test Ended: 00:36:00  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Sam Esparza  
Unit No: 71  
**Interval: 4578.00 ft (KB) To 4620.00 ft (KB) (TVD)**  
Reference Elevations: 3034.00 ft (KB)  
3023.00 ft (CF)  
Total Depth: 4620.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Good  
KB to GR/CF: 11.00 ft

## Serial #: 8845      Outside

Press @ Run Depth: 21.68 psig @ 4579.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.01.22      End Date: 2014.01.23      Last Calib.: 2014.01.23  
Start Time: 18:08:05      End Time: 00:35:59      Time On Btm: 2014.01.22 @ 20:33:30  
Time Off Btm: 2014.01.22 @ 22:42:00

TEST COMMENT: IF: 1/4" Blow died @ 16 min.  
IS: No Return.  
FF: No Blow Flushed Tool. No Blow.  
FS: No Return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.54	122.10	Initial Hydro-static
1	16.66	121.21	Open To Flow (1)
31	19.31	121.99	Shut-In(1)
64	92.91	122.82	End Shut-In(1)
64	19.57	122.79	Open To Flow (2)
93	21.68	123.53	Shut-In(2)
128	75.16	124.32	End Shut-In(2)
129	2274.76	124.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

## Gas Rates

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

\* Recovery from multiple tests



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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:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 2800.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

