



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil, Inc  
Po Box 8050  
Edmond, Ok 73083  
ATTN: Kitt Noah

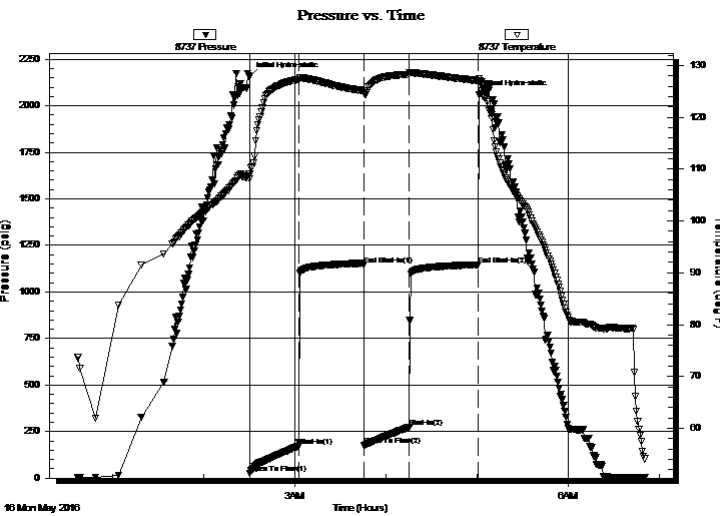
**16 11s 32w Logan, Ks**  
**HR Unit #1**  
Job Ticket: 64572      **DST#: 4**  
Test Start: 2016.05.16 @ 00:37:15

## GENERAL INFORMATION:

Formation: **L**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 02:30:30      Tester: Mike Roberts  
Time Test Ended: 06:50:00      Unit No: 75  
**Interval: 4288.00 ft (KB) To 4320.00 ft (KB) (TVD)**      Reference Elevations: 3025.00 ft (KB)  
Total Depth: 4320.00 ft (KB) (TVD)      3020.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 5.00 ft

**Serial #: 8737      Outside**  
Press@RunDepth: 273.61 psig @ 4315.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2016.05.16      End Date: 2016.05.16      Last Calib.: 2016.05.16  
Start Time: 00:37:15      End Time: 06:50:00      Time On Btm: 2016.05.16 @ 02:30:15  
Time Off Btm: 2016.05.16 @ 05:01:15

TEST COMMENT: IF:BOB in 13 min.  
IS: No return blow  
FF:BOB in 13 min.  
FS:No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2158.95	109.03	Initial Hydro-static
1	27.22	108.15	Open To Flow (1)
33	172.24	127.30	Shut-In(1)
75	1144.58	125.05	End Shut-In(1)
76	175.35	124.64	Open To Flow (2)
105	273.61	128.29	Shut-In(2)
151	1145.44	127.05	End Shut-In(2)
151	2057.43	127.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
118.00	ocmw 3%o 15%m 82%w	0.58
310.00	ocgmw 1%o 3%g 10%m 86%w	4.35
76.00	ocgmw 1%o 3%g 24%m 72%w	1.07
1.00	free oil 100% o	0.01

## Gas Rates

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



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## 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: 24000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 2500.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
118.00	ocmw 3%o 15%m 82%w	0.580
310.00	ocgmw 1%o 3%g 10%m 86%w	4.348
76.00	ocgmw 1%o 3%g 24%m 72%w	1.066
1.00	free oil 100% o	0.014

Total Length: 505.00 ft      Total Volume: 6.008 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW= .62@ 47.5 24,000 ppm

### Pressure vs. Time

