



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**16/11s/32w Logan KS**  
**Rumback 'A' #16-1**  
 Job Ticket: 62690 **DST#: 1**  
 Test Start: 2016.09.18 @ 21:45:00

## GENERAL INFORMATION:

Formation: **LKC "H"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:42:30  
 Time Test Ended: 04:36:45  
 Interval: **4174.00 ft (KB) To 4194.00 ft (KB) (TVD)**  
 Total Depth: 4194.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder  
 Unit No: 83  
 Reference Elevations: 3025.00 ft (KB)  
 3020.00 ft (CF)  
 KB to GR/CF: 5.00 ft

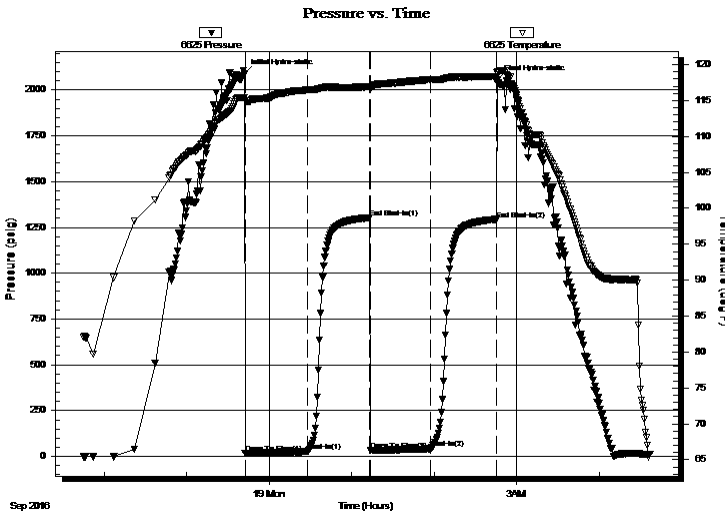
## Serial #: 6625

Inside

Press @ Run Depth: 41.82 psig @ 4175.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2016.09.18 End Date: 2016.09.19 Last Calib.: 2016.09.19  
 Start Time: 21:45:05 End Time: 04:36:44 Time On Btm: 2016.09.18 @ 23:42:00  
 Time Off Btm: 2016.09.19 @ 02:46:00

TEST COMMENT: 45 - IF: Blow built to 2"  
 45 - IS: No blow back  
 45 - FF: Surface blow at 11 min., built to 2"  
 45 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.09	115.41	Initial Hydro-static
1	15.84	115.03	Open To Flow (1)
46	27.44	116.53	Shut-In(1)
91	1302.76	116.92	End Shut-In(1)
92	32.55	116.88	Open To Flow (2)
136	41.82	117.95	Shut-In(2)
183	1293.61	118.38	End Shut-In(2)
184	2054.52	118.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
59.00	GOCM 70% m, 15% o, 15% g	0.29
2.00	OCM 60% m, 38% o, 2% g	0.01
0.00	A few inches of free oil on top	0.00
0.00	GIP = 57'	0.00

## Gas Rates

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



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Total Depth: 4194.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 83

Reference Elevations: 3025.00 ft (KB)

3020.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8366**

**Outside**

Press@RunDepth: psig @ 4175.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.09.18 End Date: 2016.09.19

Last Calib.: 2016.09.19

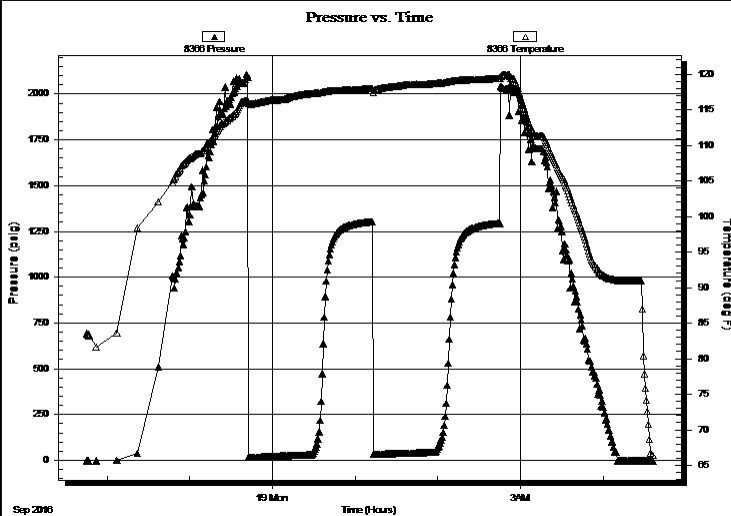
Start Time: 21:45:05 End Time: 04:36:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 45 - IF: Blow built to 2"  
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### PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
59.00	GOCM 70% m, 15% o, 15% g	0.29
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### Gas Rates

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



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**FLUID SUMMARY**

Russell Oil Inc.

**16/11s/32w Logan KS**

PO Box 8050  
Edmond, OK 73083

**Rumback 'A' #16-1**

Job Ticket: 62690

**DST#: 1**

ATTN: Kitt Noah

Test Start: 2016.09.18 @ 21:45:00

## 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
59.00	GOCM 70%m, 15%o, 15%g	0.290
2.00	OCM 60%m, 38%o, 2%g	0.010
0.00	A few inches of free oil on top	0.000
0.00	GIP = 57'	0.000

Total Length: 61.00 ft

Total Volume: 0.300 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

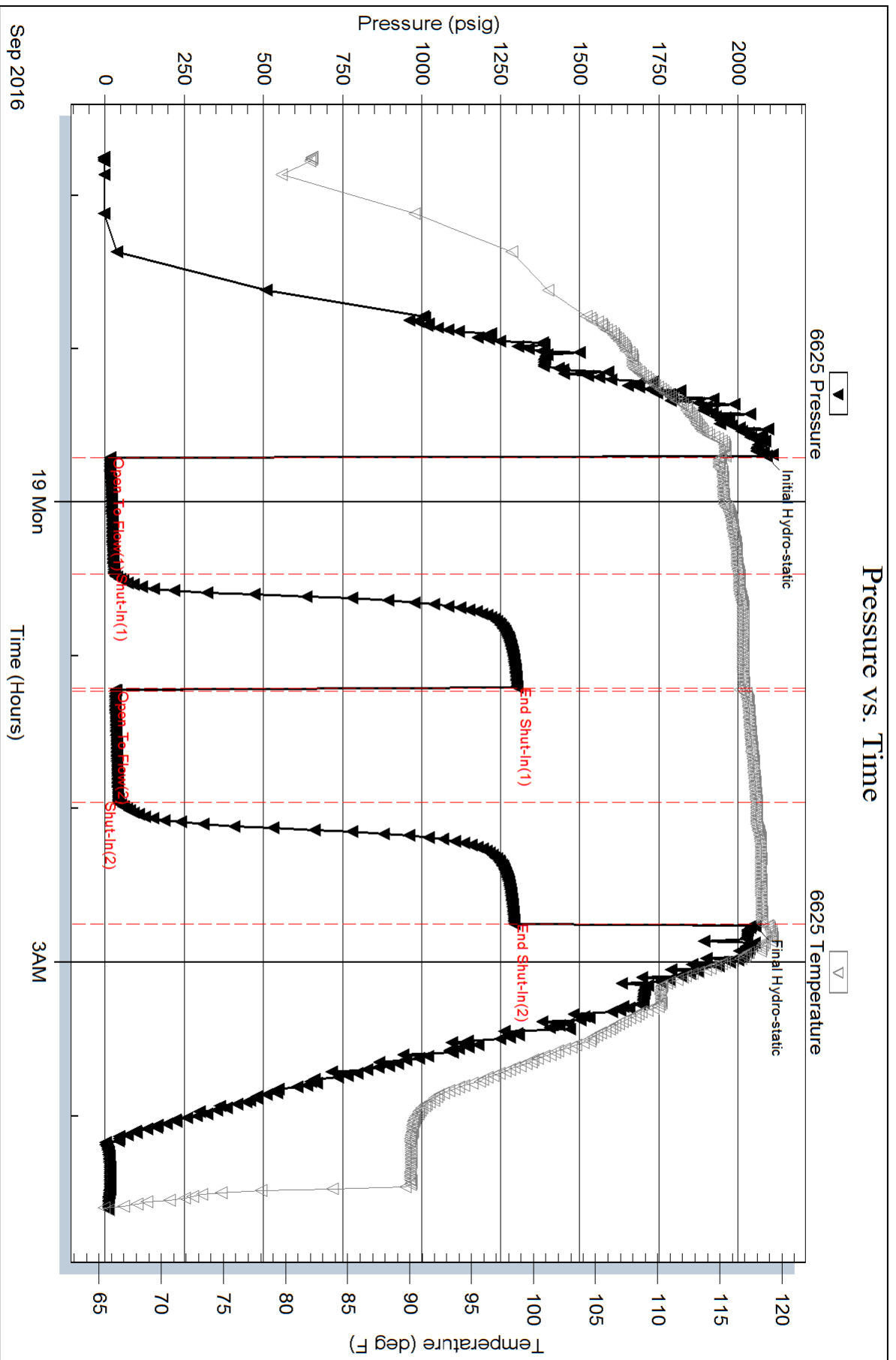
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



Serial #: 8366

Outside Russell Oil Inc.

Runback 'A' #16-1

DST Test Number: 1

