



## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond, OK 73083

ATTN: Kitt Noah

### **Sigle-Williams #35-1**

#### **35-10s-12w Osborne,KS**

Start Date: 2014.11.03 @ 19:13:00

End Date: 2014.11.04 @ 02:01:30

Job Ticket #: 60393                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.13 @ 09:39:59

Russell Oil Inc.  
35-10s-12w Osborne,KS  
Sigle-Williams #35-1  
DST # 1  
LKC "A"  
2014.11.03



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**35-10s-12w Osborne, KS**  
**Sigle-Williams #35-1**  
Job Ticket: 60393 **DST#: 1**  
Test Start: 2014.11.03 @ 19:13:00

## GENERAL INFORMATION:

Formation: **LKC "A"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:08:00  
Time Test Ended: 02:01:30  
Interval: **2830.00 ft (KB) To 2876.00 ft (KB) (TVD)**  
Total Depth: 2876.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S4  
Reference Elevations: 1623.00 ft (KB)  
1614.00 ft (CF)  
KB to GR/CF: 9.00 ft

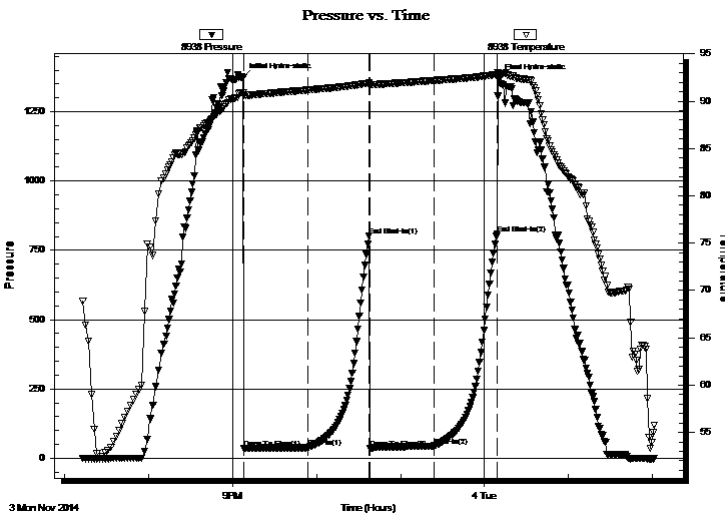
## Serial #: 8938

Inside

Press@RunDepth: 44.34 psig @ 2872.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.11.03 End Date: 2014.11.04 Last Calib.: 2014.11.04  
Start Time: 19:13:00 End Time: 02:01:30 Time On Btm: 2014.11.03 @ 21:07:30  
Time Off Btm: 2014.11.04 @ 00:10:00

TEST COMMENT: IFP 45 Weak surface blow through out  
ISI 45 No blow back  
FFP 45 Weak buiding blow built to 5"  
FSI 45 No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1374.11	90.93	Initial Hydro-static
1	36.06	90.59	Open To Flow (1)
46	37.98	91.18	Shut-In(1)
90	801.50	91.91	End Shut-In(1)
91	34.03	91.74	Open To Flow (2)
137	44.34	92.18	Shut-In(2)
182	810.02	92.82	End Shut-In(2)
183	1368.12	92.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM 45%Oil 55%Mud	0.42
0.00	There was clean oil between the shut-in and hydraulic tools	0.00
0.00		0.00

## Gas Rates

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



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

**35-10s-12w Osborne, KS**  
**Sigle-Williams #35-1**  
Job Ticket: 60393 **DST#: 1**  
Test Start: 2014.11.03 @ 19:13:00

## GENERAL INFORMATION:

Formation: **LKC "A"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 21:08:00  
Time Test Ended: 02:01:30  
Interval: **2830.00 ft (KB) To 2876.00 ft (KB) (TVD)**  
Total Depth: 2876.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1623.00 ft (KB)  
1614.00 ft (CF)  
KB to GR/CF: 9.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S4

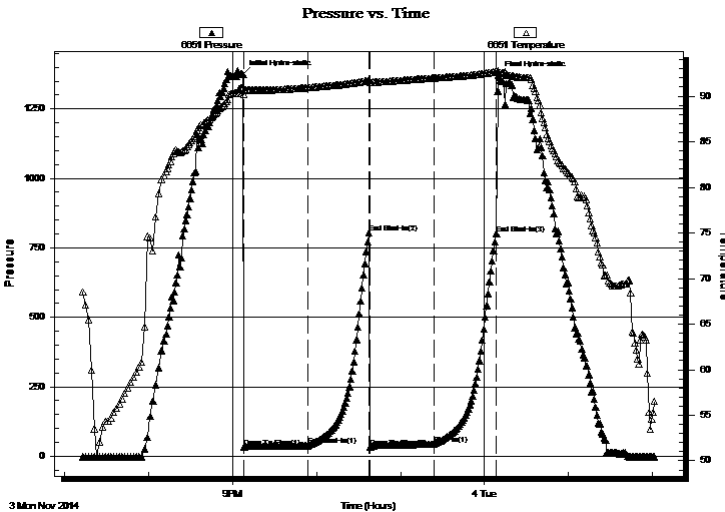
## Serial #: 6651

Outside

Press@RunDepth: 799.67 psig @ 2873.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.11.03 End Date: 2014.11.04 Last Calib.: 2014.11.04  
Start Time: 19:13:00 End Time: 02:01:30 Time On Btm: 2014.11.03 @ 21:07:30  
Time Off Btm: 2014.11.04 @ 00:10:00

TEST COMMENT: IFP 45 Weak surface blow through out  
ISI 45 No blow back  
FFP 45 Weak buiding blow built to 5"  
FSI 45 No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1374.86	90.99	Initial Hydro-static
1	33.66	90.23	Open To Flow (1)
46	38.27	90.94	End Shut-In(1)
90	804.32	91.72	End Shut-In(2)
91	33.02	91.47	Open To Flow (2)
137	44.92	91.99	Shut-In(1)
181	799.67	92.67	End Shut-In(3)
183	1371.35	92.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM 45%Oil 55%Mud	0.42
0.00	There was clean oil between the shut-in and hydraulic tools	0.00
0.00		0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc.

**35-10s-12w Osborne,KS**

PO Box 8050  
Edmond, OK 73083

**Sigle-Williams #35-1**

Job Ticket: 60393

**DST#: 1**

ATTN: Kitt Noah

Test Start: 2014.11.03 @ 19:13:00

## Tool Information

Drill Pipe:	Length: 2835.00 ft	Diameter: 3.80 inches	Volume: 39.77 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 39.77 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 30000.00 lb
Depth to Top Packer:	2830.00 ft			Final 30000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2815.00	
Hydraulic Tool	5.00			2820.00	
Top Packer	5.00			2825.00	
Packer	5.00			2830.00	20.00 Bottom Of Top Packer
Anchor	41.00			2871.00	
Recorder	1.00	8938	Inside	2872.00	
Recorder	1.00	6651	Outside	2873.00	
Bull Plug	3.00			2876.00	46.00 Anchor Tool

**Total Tool Length: 66.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc.

**35-10s-12w Osborne,KS**

PO Box 8050  
Edmond, OK 73083

**Sigle-Williams #35-1**

Job Ticket: 60393

**DST#: 1**

ATTN: Kitt Noah

Test Start: 2014.11.03 @ 19:13:00

## 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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	HOCM 45%Oil 55%Mud	0.421
0.00	There was clean oil between the shut-in	0.000
0.00	and hydraulic tools	0.000

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

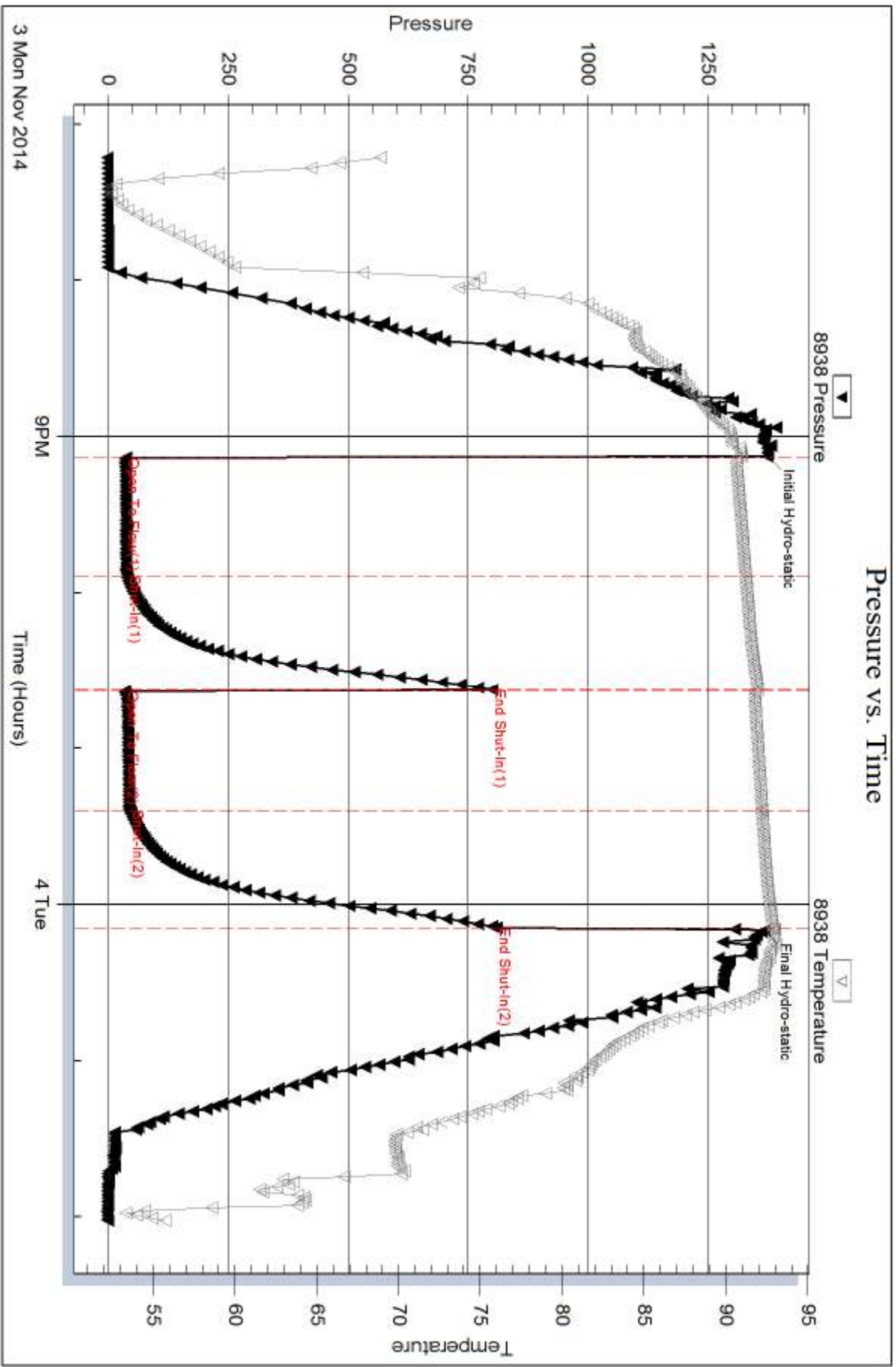
Serial #:

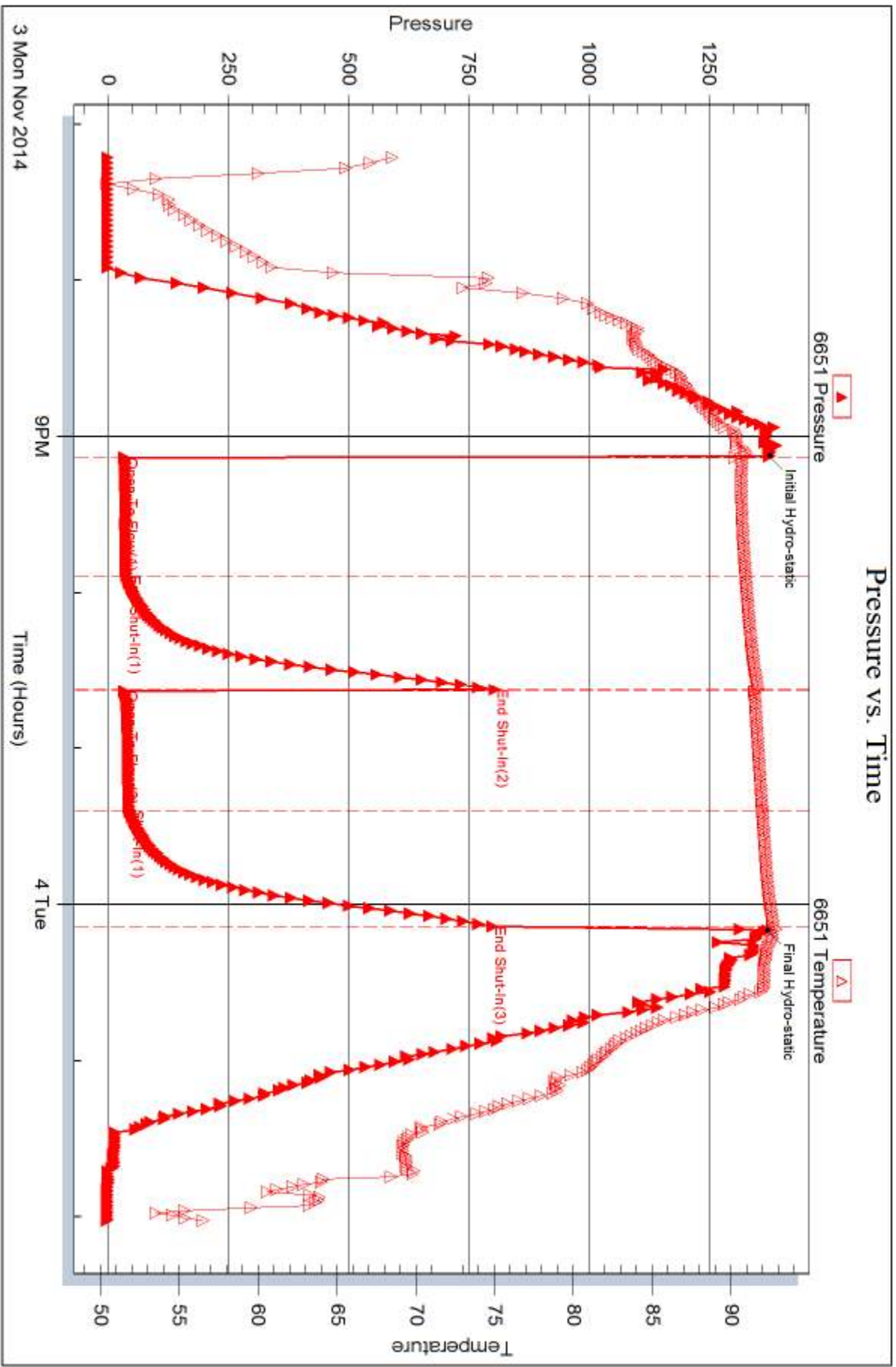
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond, OK 73083

ATTN: Kitt Noah

### **Sigle-Williams #35-1**

### **35-10s-12w Osborne,KS**

Start Date: 2014.11.04 @ 11:43:00

End Date: 2014.11.04 @ 17:08:00

Job Ticket #: 60394                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.13 @ 09:39:31





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

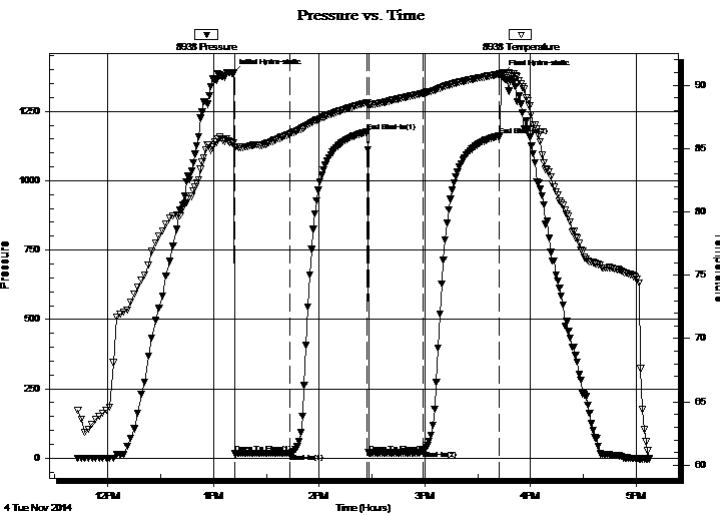
**35-10s-12w Osborne, KS**  
**Sigle-Williams #35-1**  
Job Ticket: 60394 **DST#: 2**  
Test Start: 2014.11.04 @ 11:43:00

## GENERAL INFORMATION:

Formation: **LKC C**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:12:00  
Time Test Ended: 17:08:00  
Interval: **2895.00 ft (KB) To 2909.00 ft (KB) (TVD)**  
Total Depth: 2909.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Gene Budig  
Unit No: S4  
Reference Elevations: 1623.00 ft (KB)  
1614.00 ft (CF)  
KB to GR/CF: 9.00 ft

**Serial #: 8938 Inside**  
Press@RunDepth: 27.73 psig @ 2905.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.11.04 End Date: 2014.11.04 Last Calib.: 2014.11.04  
Start Time: 11:43:00 End Time: 17:08:00 Time On Btm: 2014.11.04 @ 13:11:00  
Time Off Btm: 2014.11.04 @ 15:43:30

**TEST COMMENT:** IFP 30 Very weak surface blow died in 21 min  
ISI 45 No blow back  
FFP 30 No blow flushed tool very weak surface blow died in 5 min 20 sec  
FSI 45 No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1386.17	85.47	Initial Hydro-static
1	16.09	85.16	Open To Flow (1)
33	18.50	86.18	Shut-In(1)
76	1175.35	88.62	End Shut-In(1)
77	19.12	88.42	Open To Flow (2)
108	27.73	89.36	Shut-In(2)
151	1161.49	90.87	End Shut-In(2)
153	1381.81	90.92	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 90%Mud 10%Oil	0.14

## Gas Rates

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



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# DRILL STEM TEST REPORT

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

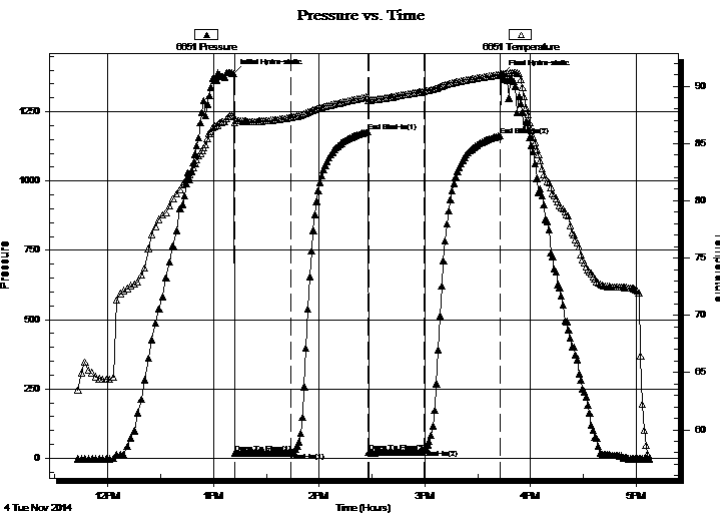
**35-10s-12w Osborne, KS**  
**Sigle-Williams #35-1**  
 Job Ticket: 60394 **DST#: 2**  
 Test Start: 2014.11.04 @ 11:43:00

## GENERAL INFORMATION:

Formation: **LKC C**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:12:00  
 Time Test Ended: 17:08:00  
 Interval: **2895.00 ft (KB) To 2909.00 ft (KB) (TVD)**  
 Total Depth: 2909.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: S4  
 Reference Elevations: 1623.00 ft (KB)  
 1614.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 6651 Outside**  
 Press@RunDepth: 1163.50 psig @ 2906.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.11.04 End Date: 2014.11.04 Last Calib.: 2014.11.04  
 Start Time: 11:43:00 End Time: 17:08:00 Time On Btm: 2014.11.04 @ 13:11:30  
 Time Off Btm: 2014.11.04 @ 15:43:30

**TEST COMMENT:** IFP 30 Very weak surface blow died in 21 min  
 ISI 45 No blow back  
 FFP 30 No blow flushed tool very weak surface blow died in 5 min 20 sec  
 FSI 45 No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1386.83	87.40	Initial Hydro-static
1	17.29	86.84	Open To Flow (1)
33	20.27	87.28	Shut-In(1)
76	1177.09	89.06	End Shut-In(1)
77	20.73	88.71	Open To Flow (2)
108	32.24	89.55	Shut-In(2)
151	1163.50	91.01	End Shut-In(2)
152	1384.14	91.07	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 90% Mud 10% Oil	0.14

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc.

**35-10s-12w Osborne,KS**

PO Box 8050  
Edmond, OK 73083

**Sigle-Williams #35-1**

Job Ticket: 60394

**DST#: 2**

ATTN: Kitt Noah

Test Start: 2014.11.04 @ 11:43:00

## Tool Information

Drill Pipe:	Length: 2892.00 ft	Diameter: 3.80 inches	Volume: 40.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 43000.00 lb
			<u>Total Volume: 40.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	2895.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	14.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			2872.00	
Hydraulic Tool	5.00			2877.00	
Jars	6.00			2883.00	
Safety Joint	2.00			2885.00	
Top Packer	5.00			2890.00	
Packer	5.00			2895.00	28.00 Bottom Of Top Packer
Anchor	9.00			2904.00	
Recorder	1.00	8938	Inside	2905.00	
Recorder	1.00	6651	Outside	2906.00	
Bull Plug	3.00			2909.00	14.00 Anchor Tool
<b>Total Tool Length:</b>	<b>42.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc.

**35-10s-12w Osborne,KS**

PO Box 8050  
Edmond, OK 73083

**Sigle-Williams #35-1**

Job Ticket: 60394

**DST#: 2**

ATTN: Kitt Noah

Test Start: 2014.11.04 @ 11:43:00

## 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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	OCM 90%Mud 10%Oil	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

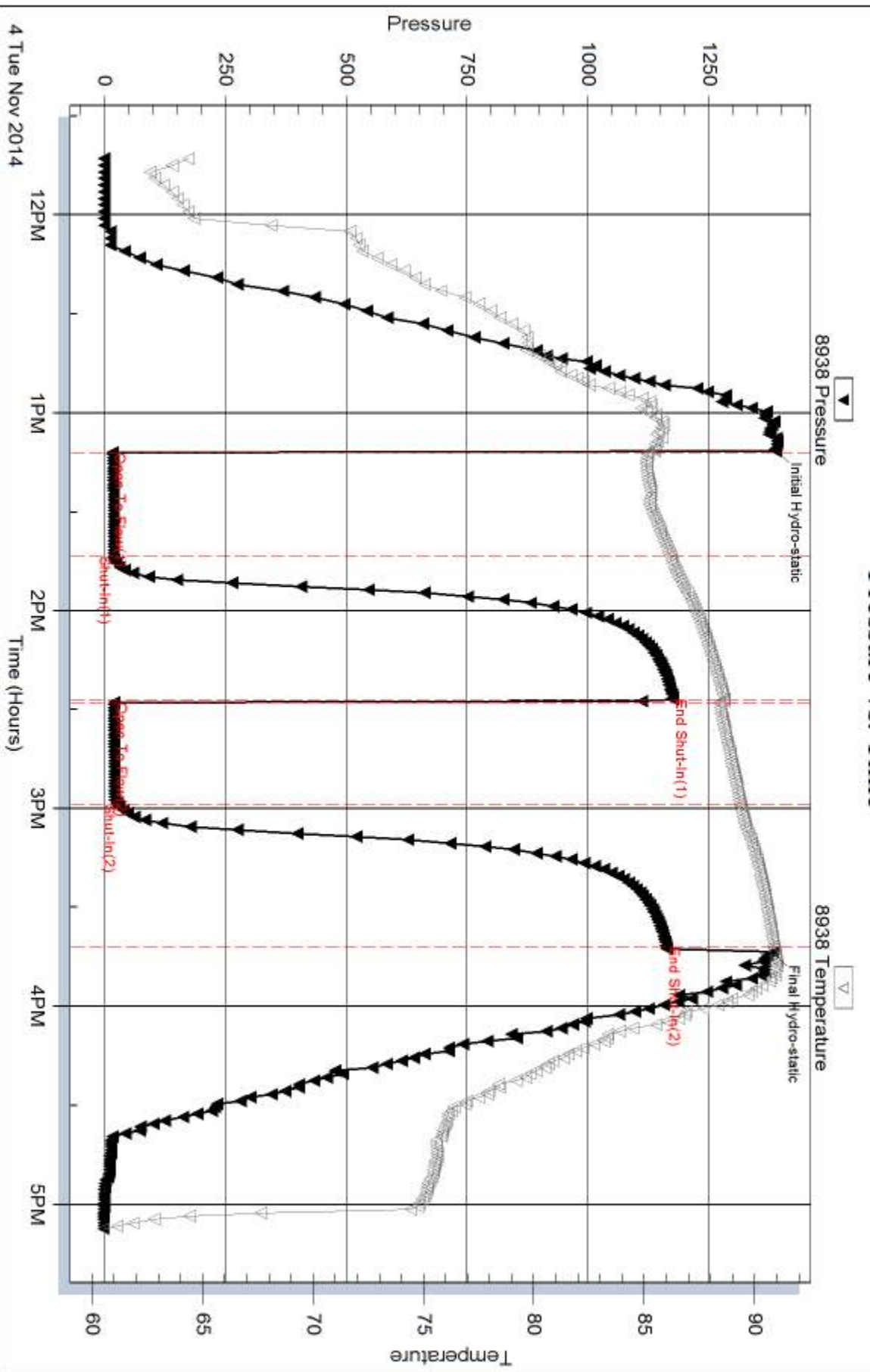
Serial #:

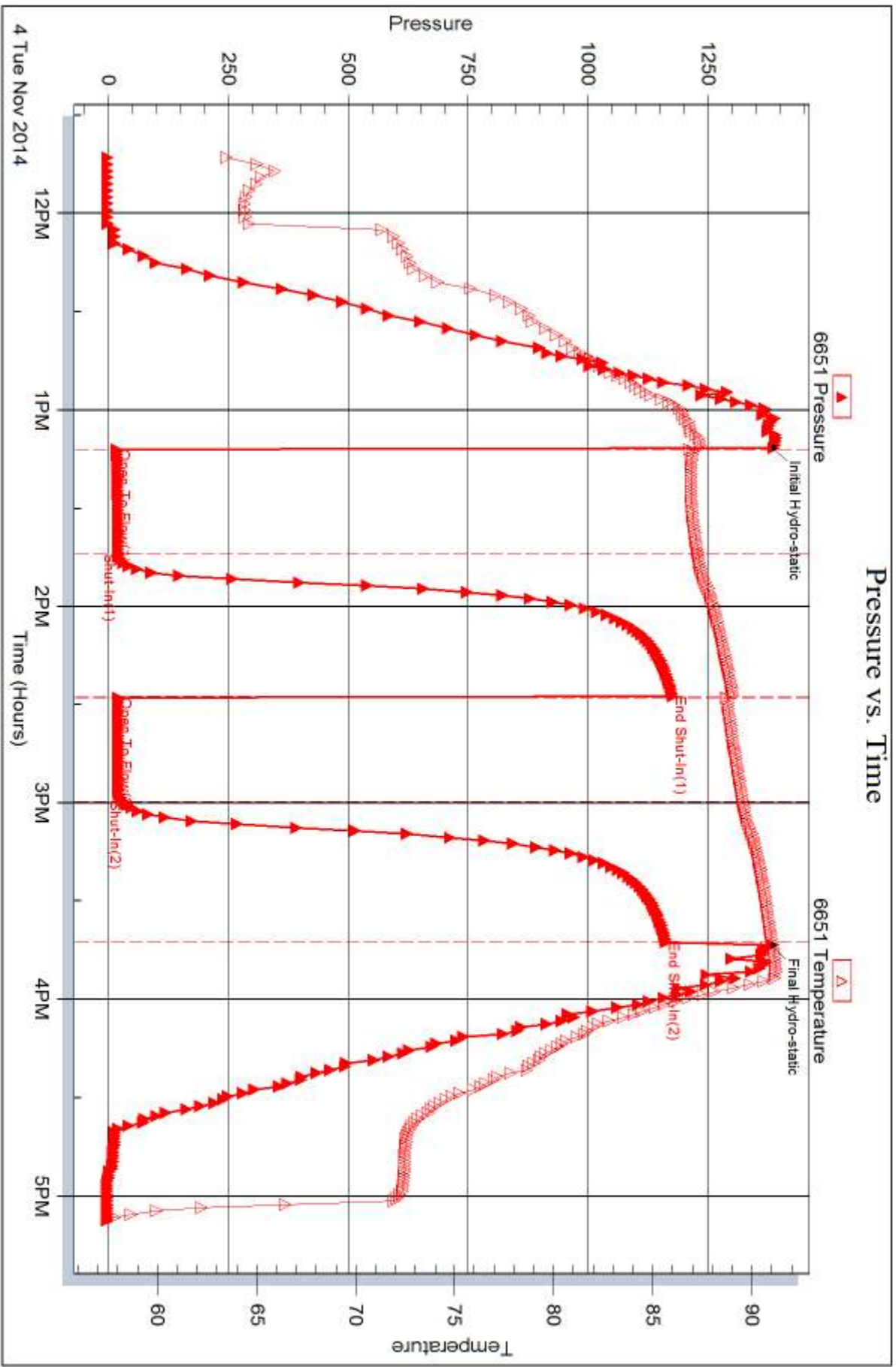
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond, OK 73083

ATTN: Kitt Noah

### **Sigle-Williams #35-1**

#### **35-10s-12w Osborne,KS**

Start Date: 2014.11.05 @ 05:11:00

End Date: 2014.11.05 @ 10:30:54

Job Ticket #: 60896                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.11.13 @ 09:38:04



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

**35-10s-12w Osborne, KS**  
**Sigle-Williams #35-1**  
Job Ticket: 60896 **DST#: 3**  
Test Start: 2014.11.05 @ 05:11:00

## GENERAL INFORMATION:

Formation: **LKC "G"**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 06:49:55  
Time Test Ended: 10:30:54  
Interval: **2959.00 ft (KB) To 2970.00 ft (KB) (TVD)**  
Total Depth: 2970.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Reference Elevations: 1623.00 ft (KB)  
1614.00 ft (CF)  
KB to GR/CF: 9.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ray Schwager  
Unit No: 70

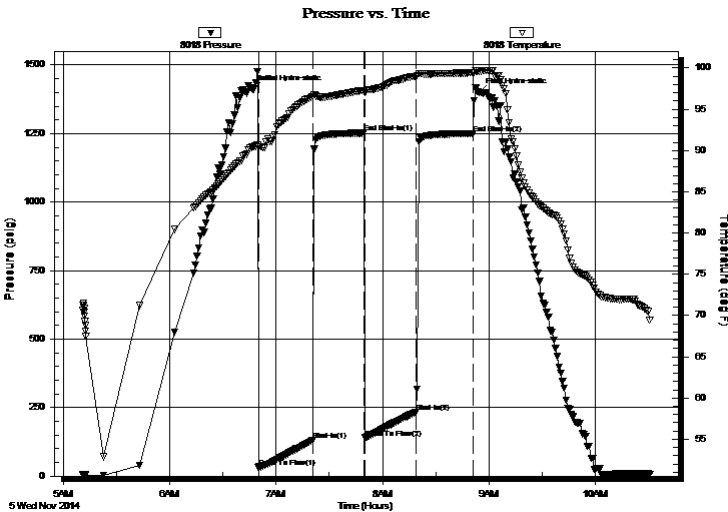
## Serial #: 8018

Inside

Press@RunDepth: 234.39 psig @ 2960.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.11.05 End Date: 2014.11.05 Last Calib.: 2014.11.05  
Start Time: 05:11:00 End Time: 10:30:54 Time On Btm: 2014.11.05 @ 06:46:55  
Time Off Btm: 2014.11.05 @ 08:54:25

TEST COMMENT: 30-IFP-w k to strg in 18 min  
30-ISIP-no bl  
30-FFP-w k to strg in 18 min  
30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1412.32	90.45	Initial Hydro-static
3	30.83	90.48	Open To Flow (1)
34	130.61	96.53	Shut-In(1)
63	1252.07	97.29	End Shut-In(1)
63	139.84	97.04	Open To Flow (2)
92	234.39	99.00	Shut-In(2)
124	1250.75	99.42	End Shut-In(2)
128	1400.50	99.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	CO	0.01
370.00	Water	5.19

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**35-10s-12w Osborne, KS**  
**Sigle-Williams #35-1**  
Job Ticket: 60896      **DST#: 3**  
Test Start: 2014.11.05 @ 05:11:00

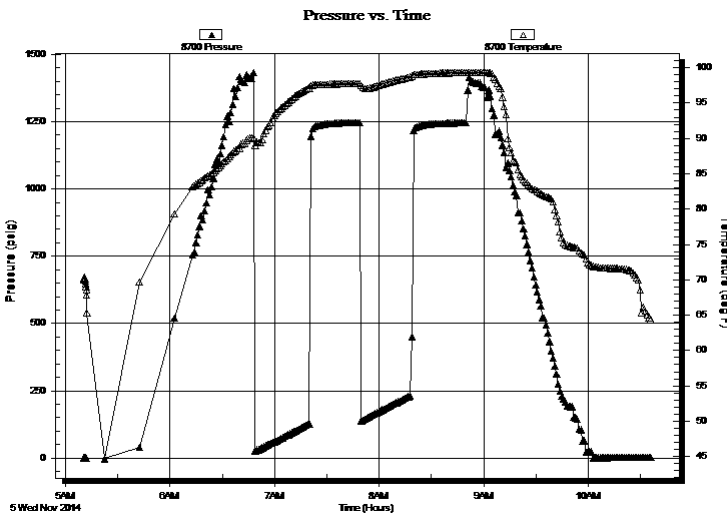
## GENERAL INFORMATION:

Formation: <b>LKC "G"</b>				
Deviated: No	Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)	
Time Tool Opened: 06:49:55			Tester: Ray Schwager	
Time Test Ended: 10:30:54			Unit No: 70	
<b>Interval: 2959.00 ft (KB) To 2970.00 ft (KB) (TVD)</b>			Reference Elevations: 1623.00 ft (KB)	
Total Depth: 2970.00 ft (KB) (TVD)			1614.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Fair		KB to GR/CF: 9.00 ft	

<b>Serial #: 8700</b>	<b>Outside</b>				
Press@RunDepth:	psig @	2960.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2014.11.05	End Date:	2014.11.05	Last Calib.:	2014.11.05
Start Time:	05:10:27	End Time:	10:36:21	Time On Btm:	
				Time Off Btm:	

TEST COMMENT: 30-IFP-w k to strg in 18 min  
30-ISIP-no bl  
30-FFP-w k to strg in 18 min  
30-FSIP-no bl

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	CO	0.01
370.00	Water	5.19

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc.

**35-10s-12w Osborne, KS**

PO Box 8050  
Edmond, OK 73083

**Sigle-Williams #35-1**

Job Ticket: 60896

**DST#: 3**

ATTN: Kitt Noah

Test Start: 2014.11.05 @ 05:11:00

## Tool Information

Drill Pipe:	Length: 2959.00 ft	Diameter: 3.80 inches	Volume: 41.51 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 41.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	2959.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2931.00	
Shut In Tool	5.00			2936.00	
Hydraulic tool	5.00			2941.00	
Jars	5.00			2946.00	
Safety Joint	3.00			2949.00	
Packer	5.00			2954.00	29.00 Bottom Of Top Packer
Packer	5.00			2959.00	
Stubb	1.00			2960.00	
Recorder	0.00	8018	Inside	2960.00	
Recorder	0.00	8700	Outside	2960.00	
Perforations	7.00			2967.00	
Bullnose	3.00			2970.00	11.00 Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc.

**35-10s-12w Osborne,KS**

PO Box 8050  
Edmond, OK 73083

**Sigle-Williams #35-1**

Job Ticket: 60896

**DST#: 3**

ATTN: Kitt Noah

Test Start: 2014.11.05 @ 05:11:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

17 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

62000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	CO	0.014
370.00	Water	5.190

Total Length: 371.00 ft      Total Volume: 5.204 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .15@56F

Serial #: 8018

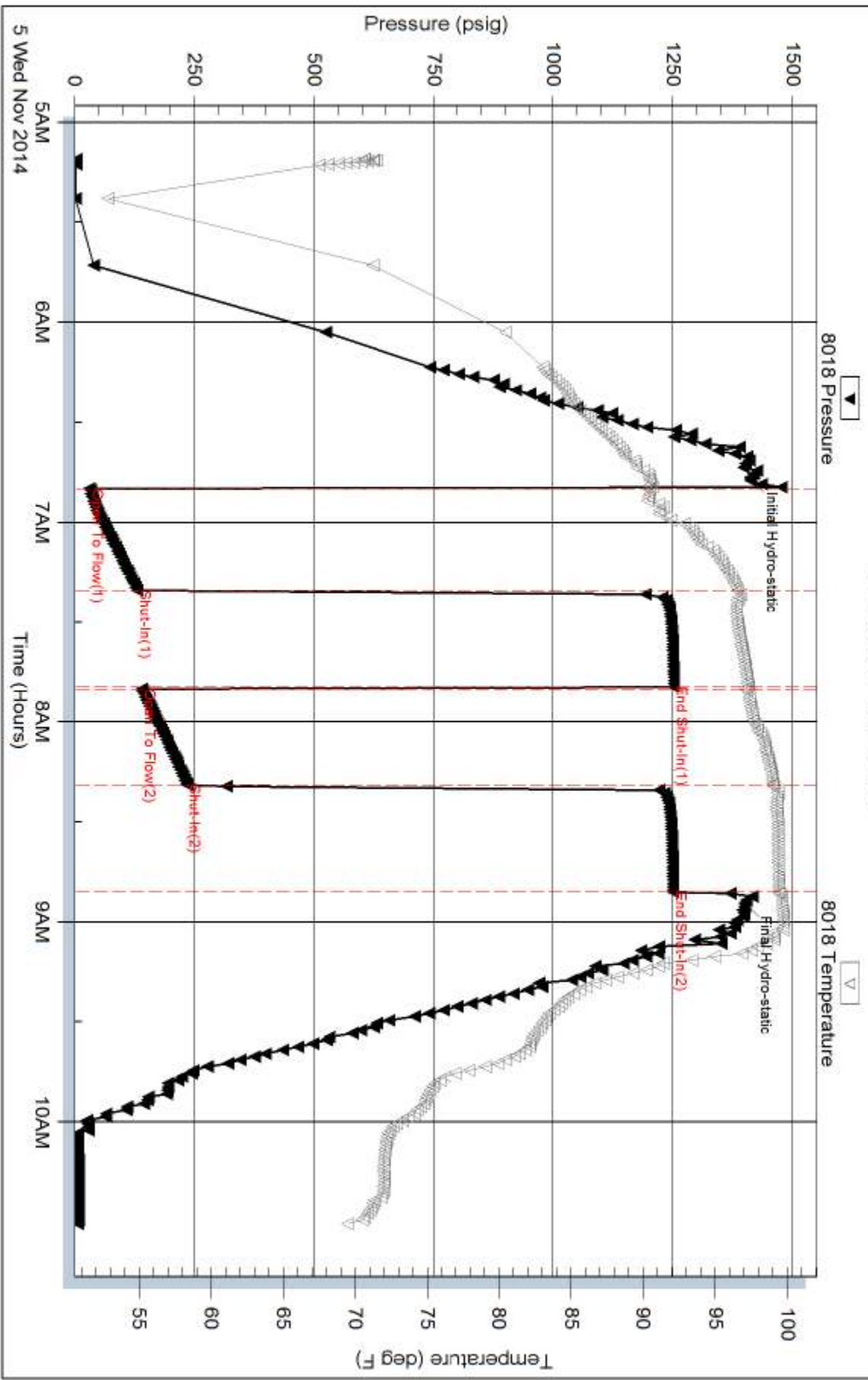
Inside

Russell Oil Inc.

Stigle-Williams #35-1

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60896

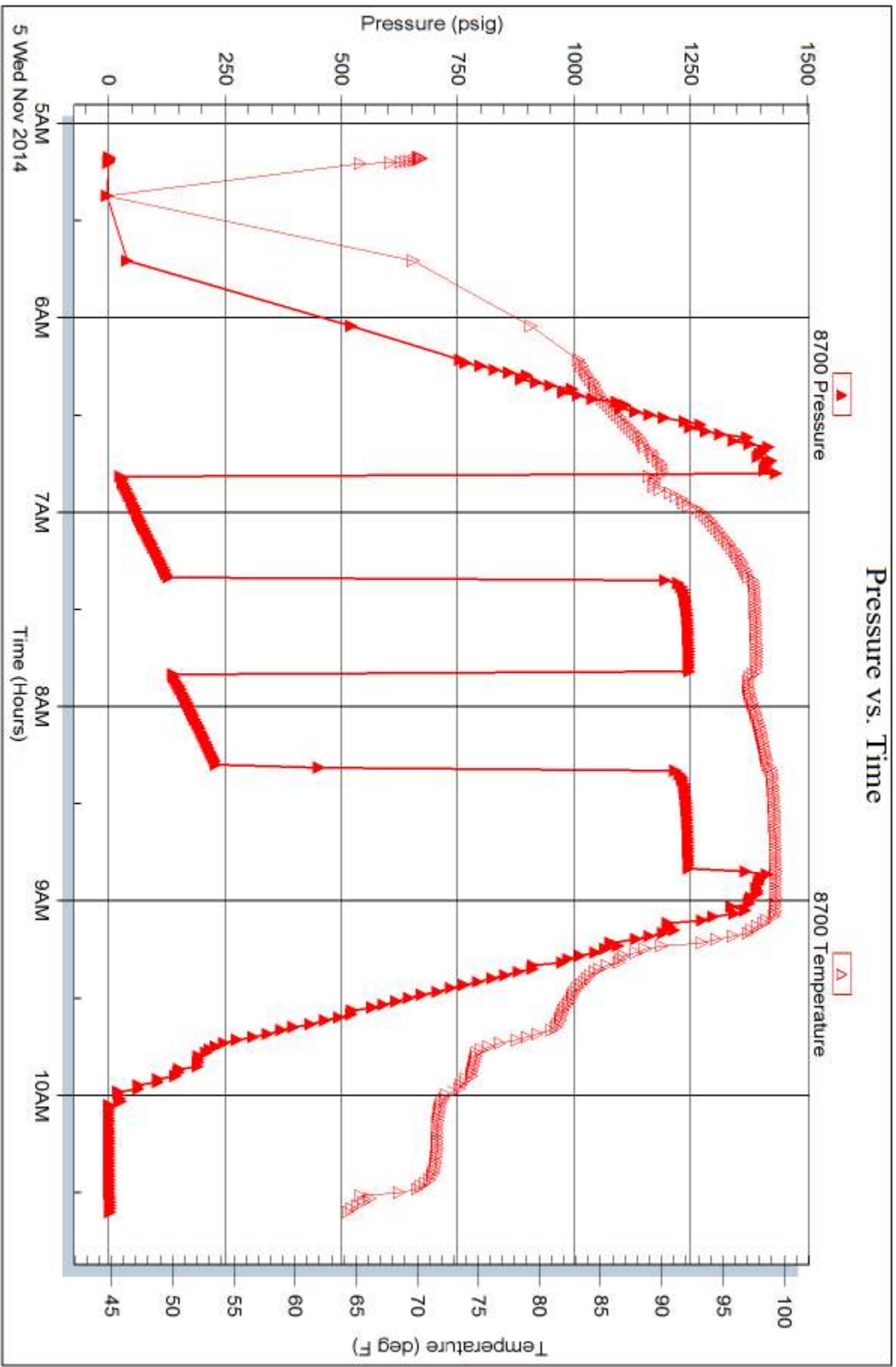
Printed: 2014.11.13 @ 09:38:05

Serial #: 8700

Outside Russell Oil Inc.

Stigle-Williams #35-1

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60393

4/10

Well Name & No. SIGLE-Williams #35-1 Test No. 1 Date 11-3-2014  
 Company Russell Oil Inc. Elevation 16423 KB 1440 GL  
 Address P.O. Box 8050 EDMOND OKLAHOMA 73083  
 Co. Rep / Geo. Kitt Noah Rig Southwind Drilling Rig #9  
 Location: Sec. 35 Twp. 10<sup>S</sup> Rge. 12<sup>W</sup> Co. OSBORNE State KANSAS

Interval Tested 2830-2876 Zone Tested LANSING KANSAS CH4 "A"  
 Anchor Length 46 Drill Pipe Run 2803 Mud Wt. 8.8  
 Top Packer Depth 2825 Drill Collars Run NONE Vis SS  
 Bottom Packer Depth 2830 Wt. Pipe Run NONE WL 6°  
 Total Depth 2876 Chlorides 5,600 ppm System LCM 2  
 Blow Description 1<sup>st</sup> OPEN WEAK SURFACE blow through out  
2<sup>nd</sup> OPEN WEAK building blow built to 5 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>HEAVY oil cut mud</u>	<u>0</u>	<u>45</u>	<u>0</u>	<u>55</u>
	<u>THERE WAS CLEAR oil between</u>				
	<u>the shut-in &amp; hydraulic tools</u>				

Rec Total 30 BHT 92 Gravity 1150 API RW @ ° F Chlorides ppm  
 (A) Initial Hydrostatic 1374  Test 1150 T-On Location 5:45 P.M.  
 (B) First Initial Flow 36  Jars 250 T-Started 7:12 P.M.  
 (C) First Final Flow 37  Safety Joint 75 T-Open 9:08 P.M.  
 (D) Initial Shut-In 801  Circ Sub \_\_\_\_\_ T-Pulled 12:08 A.M.  
 (E) Second Initial Flow 34  Hourly Standby \_\_\_\_\_ T-Out 2:01 A.M.  
 (F) Second Final Flow 44  Mileage 112rt 173.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 810  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1368  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1648.60  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1648.60

Approved By \_\_\_\_\_ Our Representative Steve Budj

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60394

4/10

Well Name & No. SIGLE-Williams #35-1 Test No. 2 Date 11-4-2014  
 Company RUSSELL OIL INC. Elevation 1623 KB 1614 GL  
 Address P.O. Box 8050 Edmond Oklahoma 73083  
 Co. Rep / Geo. Kitt Noah Rig Southwind Rig #9  
 Location: Sec. 35 Twp. 10<sup>s</sup> Rge. 12<sup>w</sup> Co. Osborne State KANSAS

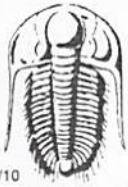
Interval Tested 2895-2909 Zone Tested LANSING KANSAS CITY "C" ZONE  
 Anchor Length 14 Drill Pipe Run 2868 Mud Wt. 9.0  
 Top Packer Depth 2890 Drill Collars Run NONE Vis 53  
 Bottom Packer Depth 2895 Wt. Pipe Run NONE WL 6.4  
 Total Depth 2909 Chlorides 5600 ppm System LCM 2  
 Blow Description 1<sup>st</sup> OPEN VERY WEAK SURFACE blow for 21 minutes & DIED  
2<sup>nd</sup> OPEN NO blow flushed tool VERY WEAK blow for 30 sec & DIED

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>eil cut mud</u>	<u>0</u>	<u>10</u>	<u>0</u>	<u>90</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 90 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1386  Test 1150 T-On Location 11:30 A.M.  
 (B) First Initial Flow 16  Jars 250 T-Started 11:42 A.M.  
 (C) First Final Flow 18  Safety Joint 75 T-Open 1:12 A.M.  
 (D) Initial Shut-In 1175  Circ Sub \_\_\_\_\_ T-Pulled 3:42 P.M.  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 27  Mileage 160 173.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 1161  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1381  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_  
 Initial Shut-In 45  Day Standby \_\_\_\_\_  
 Final Flow 30  Accessibility \_\_\_\_\_  
 Final Shut-In 45  Sub Total 0  
 Sub Total 1648.60 Total 1648.60  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Gene Budy  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60896

4/10

Well Name & No. Sigle-Williams 35-1 Test No. 3 Date 11-5-14  
 Company Russell Oil, Inc Elevation 1623 KB 1614 GL  
 Address PO Box 8050 Edmond, OK 73083  
 Co. Rep / Geo. KITT Noah Rig Southwind rig 9  
 Location: Sec. 35 Twp. 10<sup>s</sup> Rge. 12<sup>w</sup> Co. Osborne State Ks

Interval Tested 2959-2970 Zone Tested LKC "6"  
 Anchor Length 11 Drill Pipe Run 2959 Mud Wt. 9  
 Top Packer Depth 2954 Drill Collars Run - Vis 52  
 Bottom Packer Depth 2959 Wt. Pipe Run - WL 6.4  
 Total Depth 2970 Chlorides 5600 ppm System LCM 2#  
 Blow Description IFF - Weak To Strong in 18 min  
TSIP - NO Blow  
FFP -  
FSIP -

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>CO</u>				
<u>370</u>	<u>WATER</u>				

Rec Total 371 BHT 99 Gravity 17 API RW .15 @ 56 °F Chlorides 62000 ppm

(A) Initial Hydrostatic <u>1412</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0450</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0510</u>
(C) First Final Flow <u>130</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0650</u>
(D) Initial Shut-In <u>1252</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0850</u>
(E) Second Initial Flow <u>139</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1030</u>
(F) Second Final Flow <u>234</u>	<input checked="" type="checkbox"/> Mileage <u>112 RT</u> 173.60	Comments <u>Motel Stay,</u>
(G) Final Shut-In <u>1250</u>	<input type="checkbox"/> Sampler 173.60	<u>Loaded Tool 11-7-14 2300</u>
(H) Final Hydrostatic <u>1400</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
	<input type="checkbox"/> Day Standby <u>2.5d</u>	Total <u>2622.20</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1822.20</u>	

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you

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