



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1185321  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1185321

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing     Pumping     Gas Lift     Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Dirks A 27-1
Doc ID	1185321

All Electric Logs Run

COMPUTER PROCESSED INTERPRETATION
BOREHOLE COMPENSATED
MICRORESISTIVITY
DUAL INDUCTION
DUAL COMPENSATED POROSITY

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Dirks A 27-1
Doc ID	1185321

Tops

Name	Top	Datum
ANHYDRITE	2436	+711
BASE ANHYDRITE	2455	+692
HEEBNER	3900	-755
TORONTO	3919	-776
LANSING	3948	-800
MUNCIE CREEK	4114	-974
STARK SHALE	4198	-1070
BASE KC	4282	-1156
MARMATON	4333	-1206
ALTAMONT A	4350	-1220
ALTAMONT B	4367	-1233
ALTAMONT C	4376	-1248
PAWNEE	4411	-1336
MYRICK STATION	4446	-1319
FT SCOTT	4465	-1336
CHEROKEE SHALE	4492	-1362
JOHNSON	4550	-1425
MISSISSIPPI	4659	-1550







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**27-15s-35w**  
**Dirks "A" #27-1**  
 Job Ticket: 55808 **DST#: 2**  
 Test Start: 2013.11.02 @ 06:46:00

## GENERAL INFORMATION:

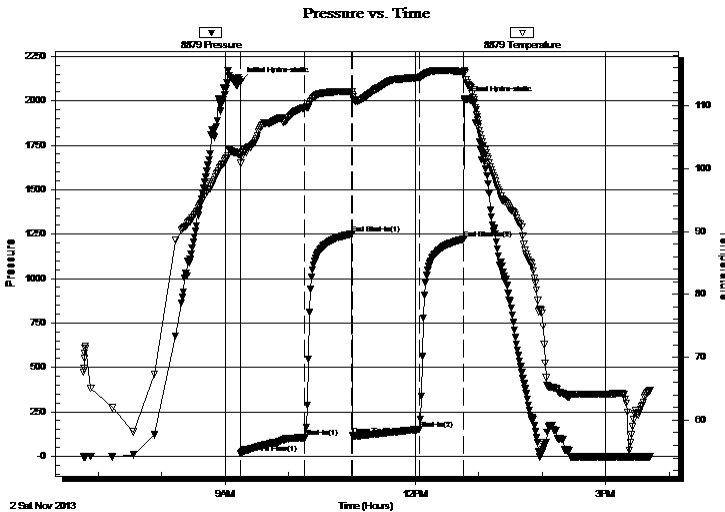
Formation: **Alt. "B"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:15:00  
 Time Test Ended: 15:42:15  
 Interval: **4346.00 ft (KB) To 4369.00 ft (KB) (TVD)**  
 Total Depth: 4369.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Royal Fisher  
 Unit No: #44  
 Reference Elevations: 3131.00 ft (KB)  
 3123.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8879

Press @ Run Depth: 151.30 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.02 End Date: 2013.11.02 Last Calib.: 2013.11.02  
 Start Time: 06:46:05 End Time: 15:42:15 Time On Btm: 2013.11.02 @ 09:14:45  
 Time Off Btm: 2013.11.02 @ 12:46:15

**TEST COMMENT:** 60 - IF - Surface blow built to bottom of bucket in 35 min.  
 45 - ISI - Weak surface blow in 10 min. died to faint blow  
 60 - FF - Surface blow built to bottom of bucket in 25 min.  
 45 - FSI - Weak surface blow in 5 min. built to 1"

## PRESSURE SUMMARY



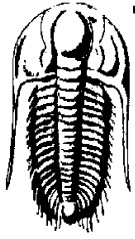
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2109.70	102.12	Initial Hydro-static
1	18.19	100.85	Open To Flow (1)
61	104.99	109.71	Shut-In(1)
105	1251.09	112.20	End Shut-In(1)
106	116.69	111.66	Open To Flow (2)
169	151.30	114.46	Shut-In(2)
211	1221.62	115.32	End Shut-In(2)
212	1998.21	115.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MCO - 25M - 30G - 45o	0.59
258.00	GO - 10G - 90o	2.53
0.00	504 - GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

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

**27-15s-35w**  
**Dirks "A" #27-1**  
Job Ticket: 55808      **DST#: 2**  
Test Start: 2013.11.02 @ 06:46:00

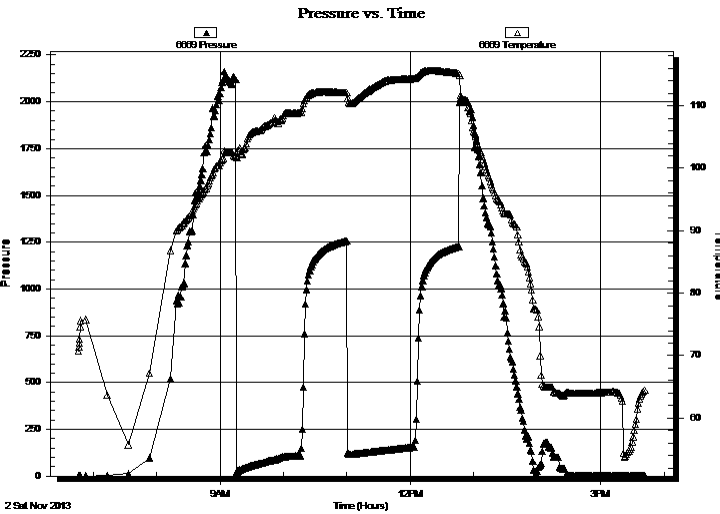
**GENERAL INFORMATION:**

Formation: **Alt. "B"**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 09:15:00  
Time Test Ended: 15:42:15  
**Interval: 4346.00 ft (KB) To 4369.00 ft (KB) (TVD)**  
Total Depth: 4369.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Reference Elevations: 3131.00 ft (KB)  
3123.00 ft (CF)  
KB to GR/CF: 8.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Royal Fisher  
Unit No: #44

**Serial #: 6669**

Press @ Run Depth:                      psig @                      ft (KB)  
Start Date: 2013.11.02                      End Date: 2013.11.02                      Capacity: 8000.00 psig  
Start Time: 06:46:05                      End Time: 15:42:30                      Last Calib.: 2013.11.02  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 60 - IF - Surface blow built to bottom of bucket in 35 min.  
45 - ISI - Weak surface blow in 10 min. died to faint blow  
60 - FF - Surface blow built to bottom of bucket in 25 min.  
45 - FSI - Weak surface blow in 5 min. built to 1"



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
120.00	MCO - 25M - 30G - 45o	0.59
258.00	GO - 10G - 90o	2.53
0.00	504 - GIP	0.00

**Gas Rates**

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Russell Oil Inc.

**27-15s-35w**

P.O. Box 8050  
Edmond OK, 73083

**Dirks "A" #27-1**

Job Ticket: 55808

**DST#: 2**

ATTN: Kitt Noah

Test Start: 2013.11.02 @ 06:46:00

### 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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	MCO - 25M - 30G - 45o	0.590
258.00	GO - 10G - 90o	2.526
0.00	504 - GIP	0.000

Total Length: 378.00 ft      Total Volume: 3.116 bbl

Num Fluid Samples: 0

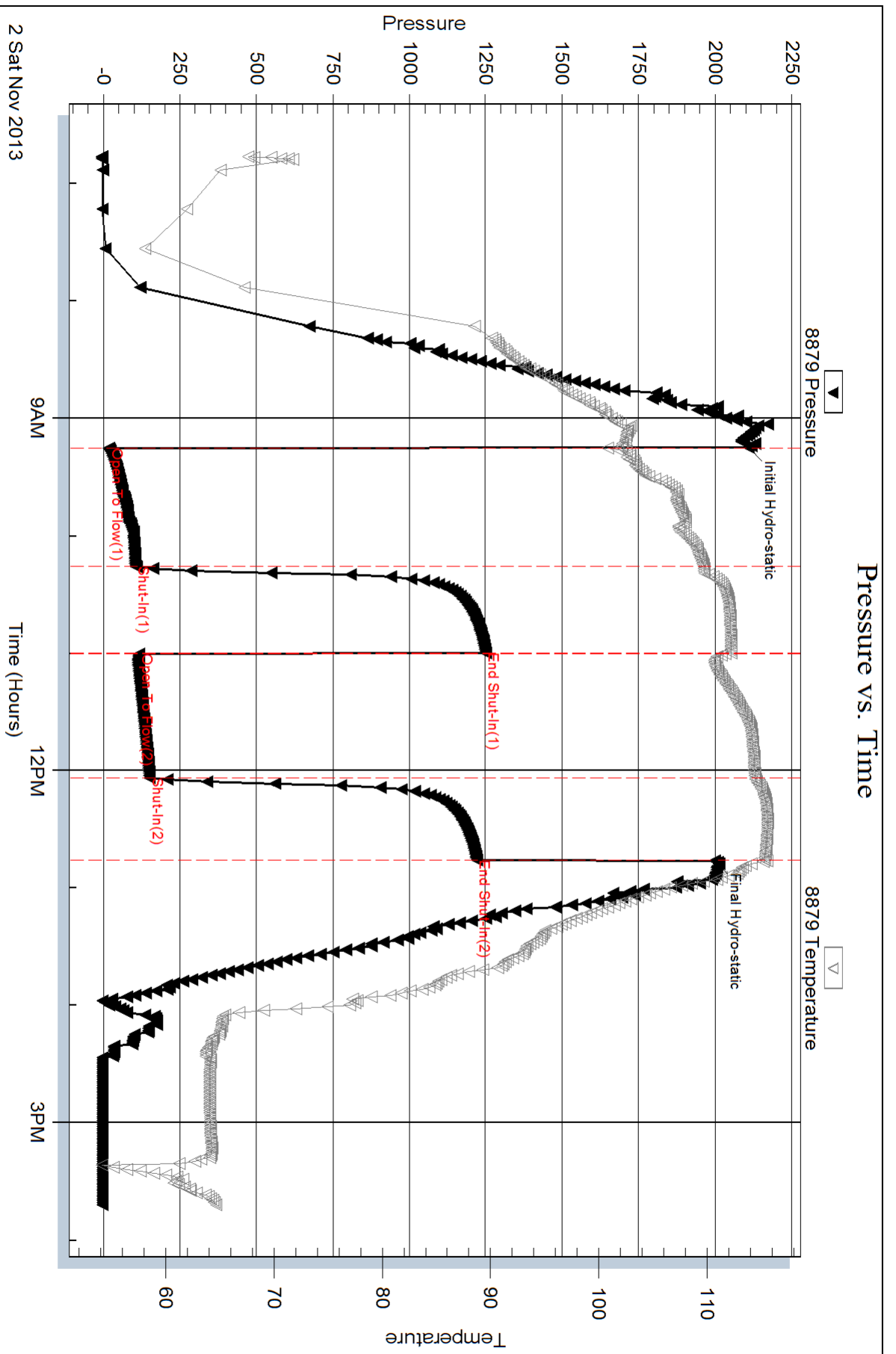
Num Gas Bombs: 0

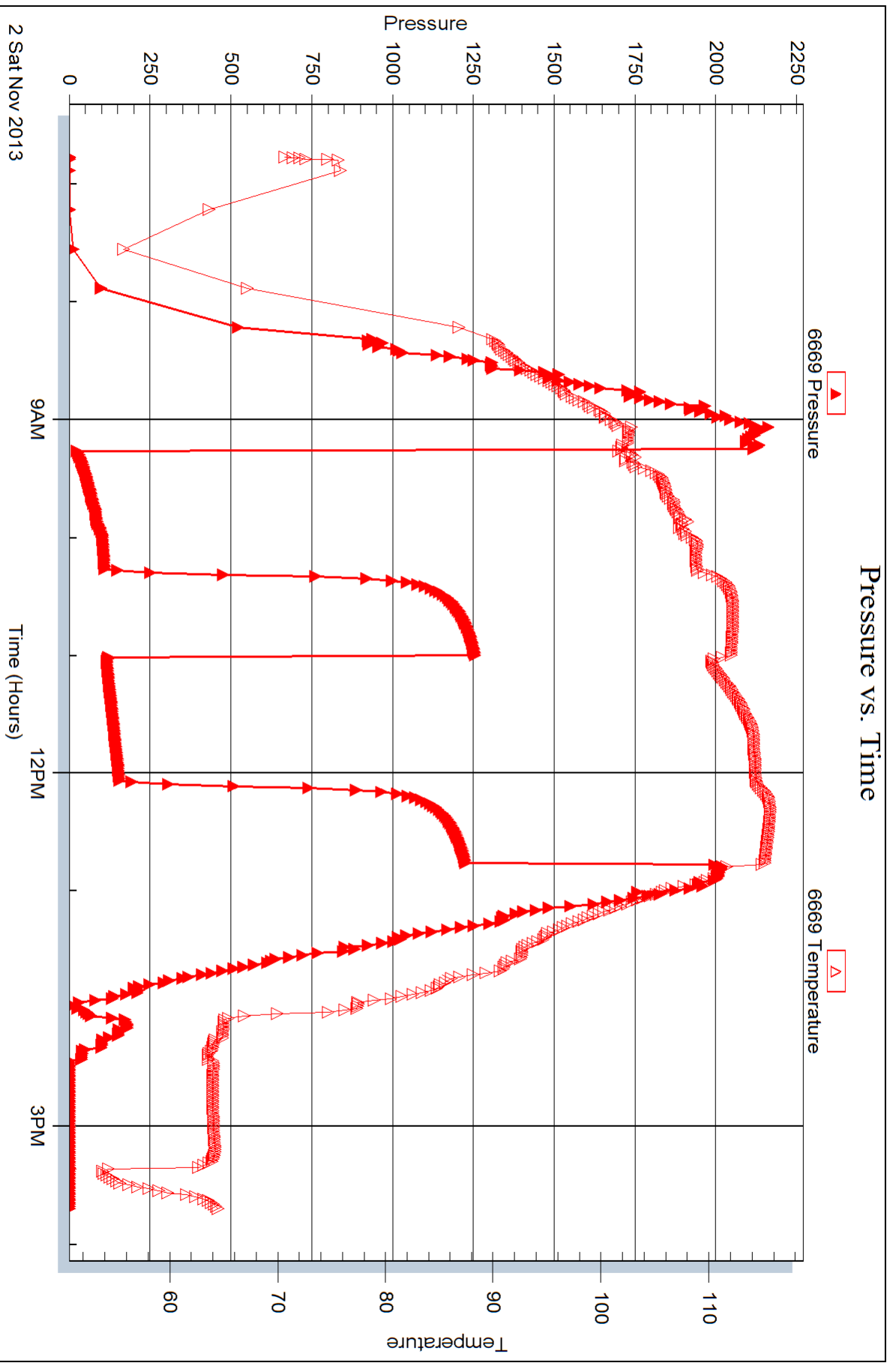
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**27-15s-35w**  
**Dirks "A" #27-1**  
Job Ticket: 55604      **DST#: 3**  
Test Start: 2013.11.03 @ 01:01:00

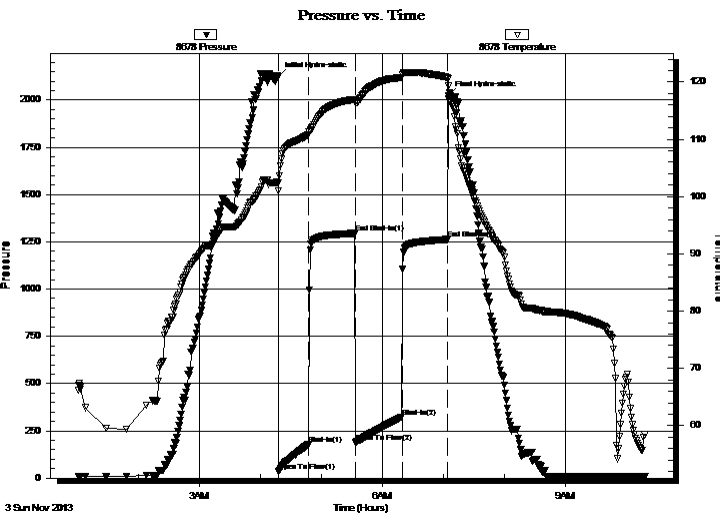
## GENERAL INFORMATION:

Formation: **Marmaton - Altamont**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 04:17:45 Tester: Bradley Walter  
 Time Test Ended: 10:18:30 Unit No: 69  
 Interval: **4368.00 ft (KB) To 4394.00 ft (KB) (TVD)** Reference Elevations: 3131.00 ft (KB)  
 Total Depth: 4394.00 ft (KB) (TVD) 3123.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

## Serial #: 8678

Press @ Run Depth: 323.72 psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.03 End Date: 2013.11.03 Last Calib.: 2013.11.03  
 Start Time: 01:01:05 End Time: 10:18:30 Time On Btm: 2013.11.03 @ 04:17:30  
 Time Off Btm: 2013.11.03 @ 07:05:00

TEST COMMENT: IF: BOB @ 4 min.  
 IS: BOB return @ 30 min.  
 FF: BOB @ 2 min.  
 FS: BOB Return @ 35 min.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2125.25	102.36	Initial Hydro-static
1	35.15	101.01	Open To Flow (1)
30	177.46	110.81	Shut-In(1)
76	1295.16	116.95	End Shut-In(1)
76	189.56	116.41	Open To Flow (2)
122	323.72	120.76	Shut-In(2)
167	1263.10	120.73	End Shut-In(2)
168	2021.18	119.27	Final Hydro-static

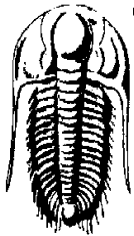
## Recovery

Length (ft)	Description	Volume (bbl)
60.00	gmco 20g 40m 40o	0.30
880.00	go 40g 60o	10.70
0.00	880' GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Russell Oil Inc.

**27-15s-35w**

P.O. Box 8050  
Edmond OK, 73083

**Dirks "A" #27-1**

Job Ticket: 55604

**DST#: 3**

ATTN: Kitt Noah

Test Start: 2013.11.03 @ 01:01:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	gmco 20g 40m 40o	0.295
880.00	go 40g 60o	10.704
0.00	880' GIP	0.000

Total Length: 940.00 ft      Total Volume: 10.999 bbl

Num Fluid Samples: 0

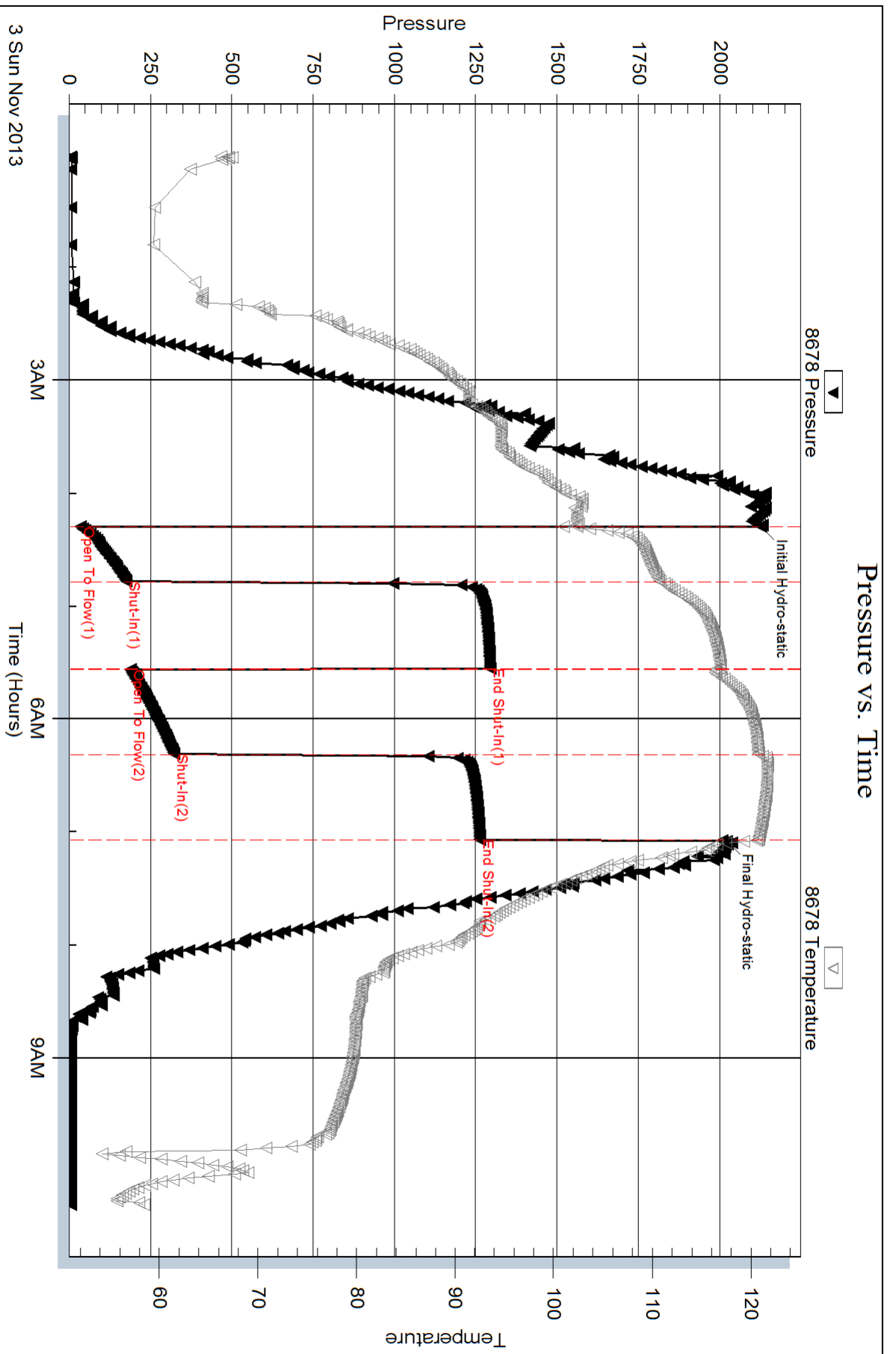
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

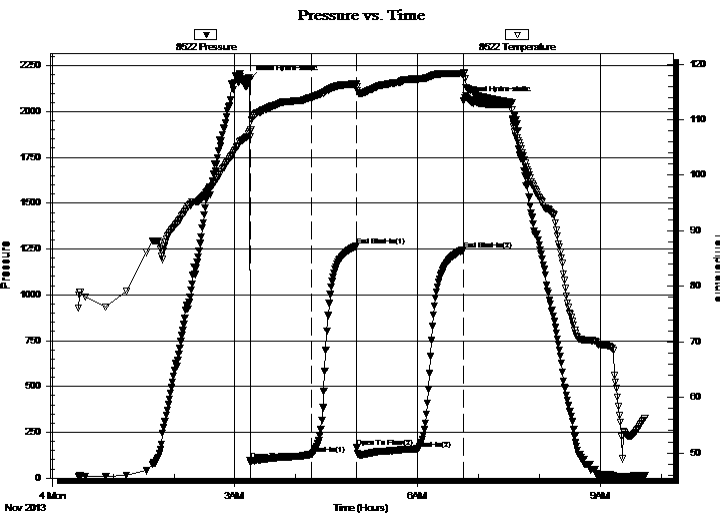
**27-15s-35w**  
**Dirks "A" #27-1**  
 Job Ticket: 54535 **DST#: 4**  
 Test Start: 2013.11.04 @ 00:26:00

## GENERAL INFORMATION:

Formation: **Myric Station**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:15:00  
 Time Test Ended: 09:44:15  
 Interval: **4436.00 ft (KB) To 4460.00 ft (KB) (TVD)**  
 Total Depth: 4460.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cornelio Landa III (  
 Unit No: 69  
 Reference Elevations: 3131.00 ft (KB)  
 3123.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Inside**  
 Press @ Run Depth: 159.81 psig @ 4437.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.04 End Date: 2013.11.04 Last Calib.: 2013.11.04  
 Start Time: 00:26:05 End Time: 09:44:15 Time On Btm: 2013.11.04 @ 03:14:45  
 Time Off Btm: 2013.11.04 @ 06:45:30

**TEST COMMENT:** IF: B.o.b. in 39 mins.  
 IS: Bled off in 3 mins.-Weak surface blow back-died in 5 mins.  
 FF: B.o.b. in 37 mins.  
 FSI: Bled off in 2 mins.- 1/2 in. Blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2175.20	107.74	Initial Hydro-static
1	98.78	106.96	Open To Flow (1)
61	128.38	113.99	Shut-In(1)
106	1265.54	116.43	End Shut-In(1)
106	165.62	115.86	Open To Flow (2)
166	159.81	117.32	Shut-In(2)
211	1245.04	118.23	End Shut-In(2)
211	2059.60	118.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	Gocm 10g 20o 70m	0.15
150.00	Cgo 20g 80o	0.74
0.00	GIP=375	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Russell Oil Inc.

**27-15s-35w**

P.O. Box 8050  
Edmond OK, 73083

**Dirks "A" #27-1**

Job Ticket: 54535

**DST#: 4**

ATTN: Kitt Noah

Test Start: 2013.11.04 @ 00:26:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbbl
30.00	Gocm 10g 20o 70m	0.148
150.00	Cgo 20g 80o	0.738
0.00	GIP=375	0.000

Total Length: 180.00 ft

Total Volume: 0.886 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

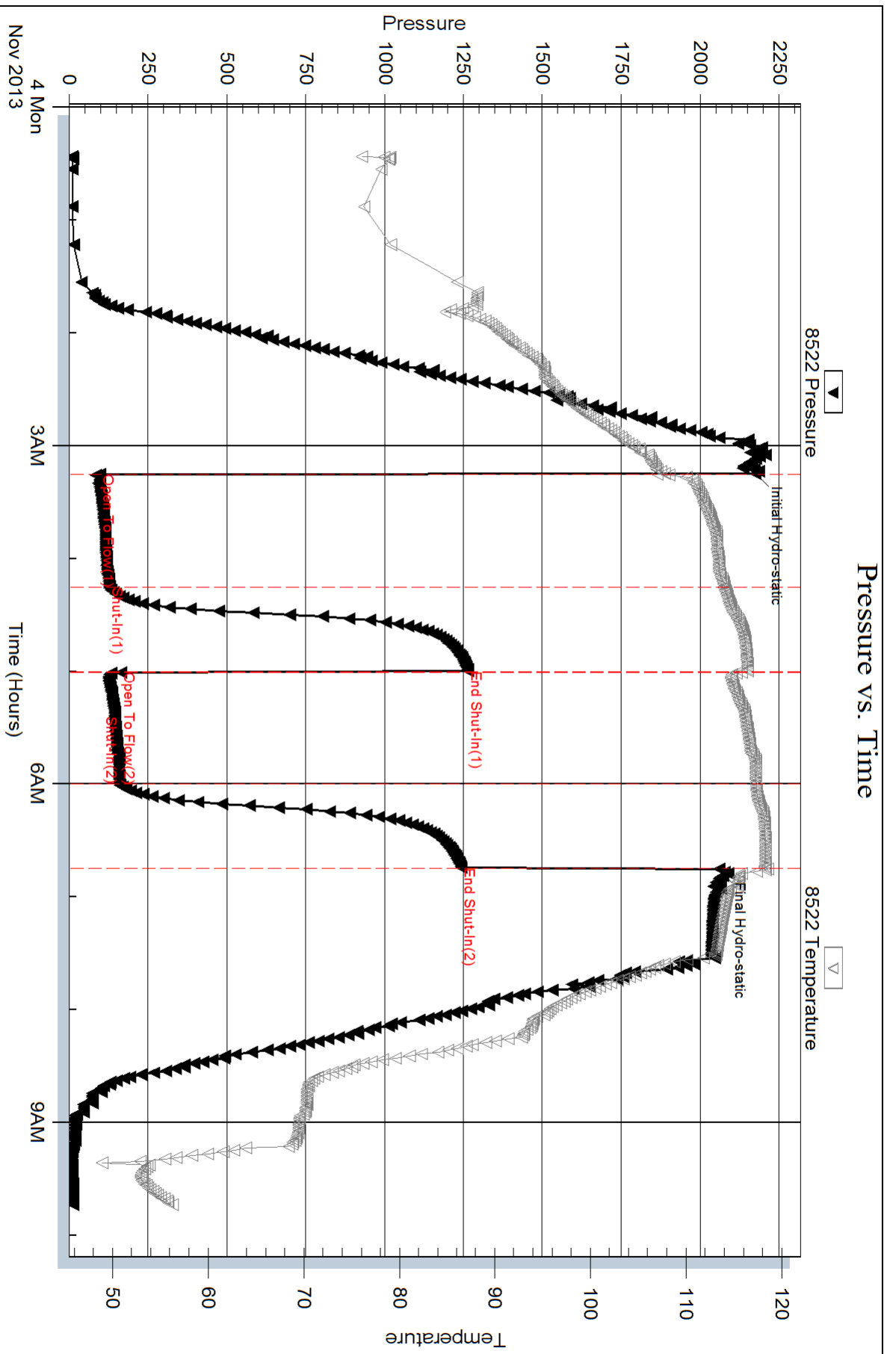
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

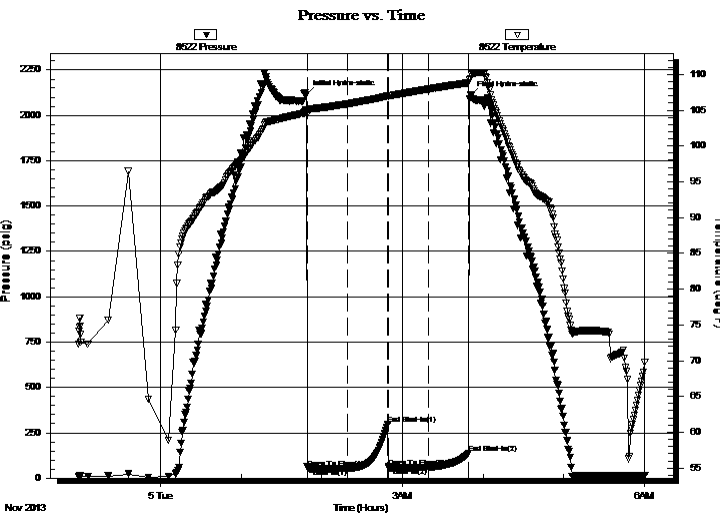
**27-15s-35w**  
**Dirks "A" #27-1**  
 Job Ticket: 54536 **DST#: 5**  
 Test Start: 2013.11.04 @ 22:59:00

## GENERAL INFORMATION:

Formation: **Ft. Scott**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:49:15  
 Time Test Ended: 06:00:30  
 Interval: **4458.00 ft (KB) To 4490.00 ft (KB) (TVD)**  
 Total Depth: 4490.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cornelio Landa III (  
 Unit No: 69  
 Reference Elevations: 3131.00 ft (KB)  
 3123.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8522 Outside**  
 Press @ Run Depth: 60.53 psig @ 4462.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.11.04 End Date: 2013.11.05 Last Calib.: 2013.11.05  
 Start Time: 22:59:05 End Time: 06:00:29 Time On Btm: 2013.11.05 @ 01:48:45  
 Time Off Btm: 2013.11.05 @ 03:50:30

TEST COMMENT: IF: No Blow  
 IS: No Return  
 FF: No Blow - Flushed tool-good surge  
 FS: No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.53	105.07	Initial Hydro-static
1	56.01	104.86	Open To Flow (1)
31	54.69	105.88	Shut-In(1)
61	298.72	106.98	End Shut-In(1)
61	62.23	106.95	Open To Flow (2)
91	60.53	107.93	Shut-In(2)
121	136.93	108.83	End Shut-In(2)
122	2110.71	109.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Ocm 10o 90m	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc.

**27-15s-35w**

P.O. Box 8050  
Edmond OK, 73083

**Dirks "A" #27-1**

Job Ticket: 54536

**DST#: 5**

ATTN: Kitt Noah

Test Start: 2013.11.04 @ 22:59:00

## 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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Ocm 10o 90m	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

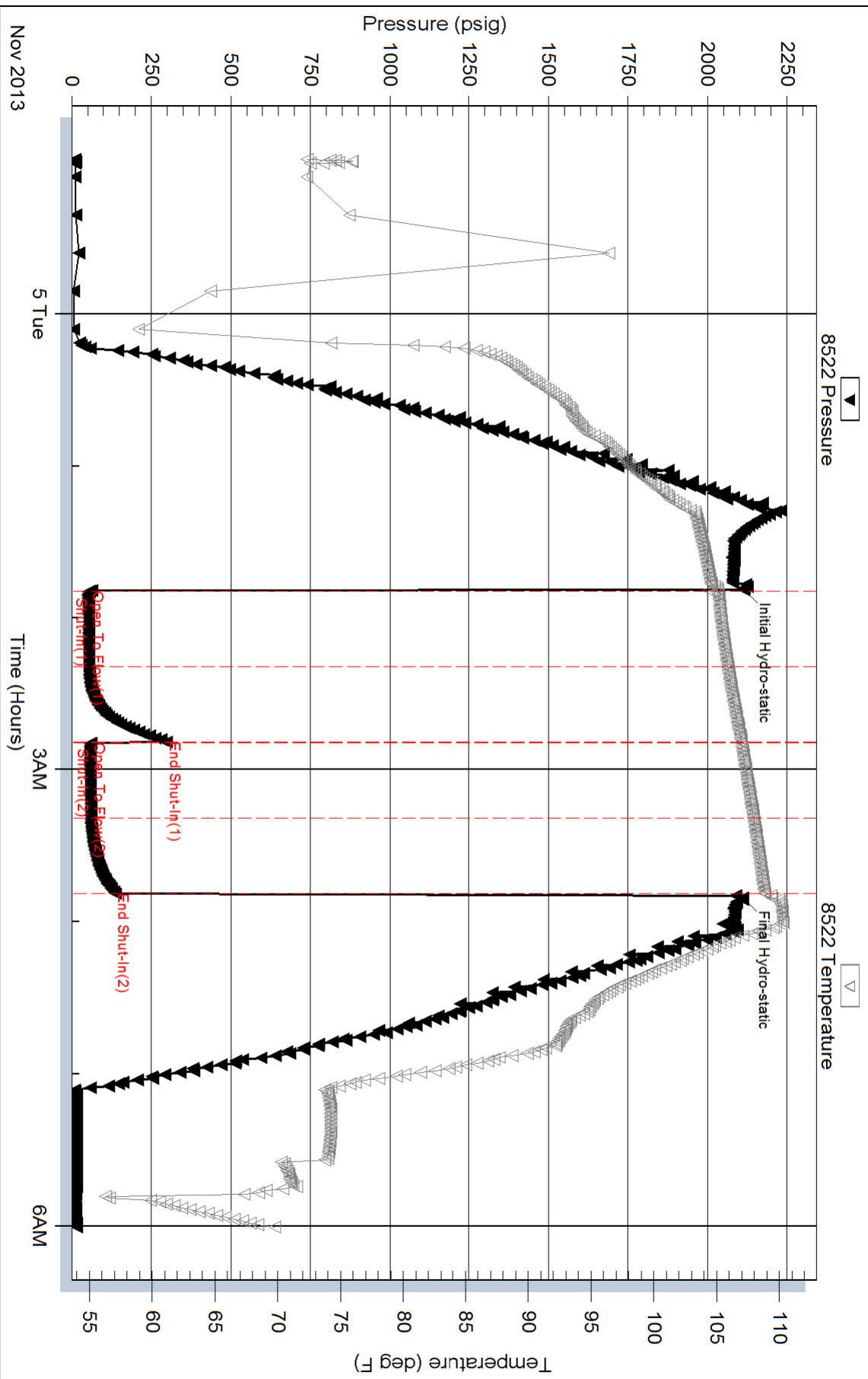
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





263539

TICKET NUMBER 44473  
 LOCATION Oakley KS  
 FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT  
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-26-13	7043	Dicks A #27-1	27	155	35W	Logan
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Mailing Address			5307118	Dane R		
CITY			357	Strum O		

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 310 CASING SIZE & WEIGHT 2 7/8"  
 CASING DEPTH 310.38 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 16 1/2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig up on H2 drilling Rig #2 Circulate casing  
mix 225 S/LS Common Class A cement with 3% calcium chloride  
displaced 18 1/2 bbls water Shut in Cement did Circulate approx 4 bbls  
top it

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150.00	1150.00 ✓
5406	40	MILEAGE	5.25	210.00 ✓
5407A	10.57 tons	Ton Mileage delivery	1.75	184.97 ✓
11045	225 S/LS	Class A Cement	18.55	4173.75 ✓
1102	634 #	Calcium chloride	.94	595.96 ✓
1118B	423 #	Bentonite gel	1.27	114.21 ✓
		Subtotal		6983.92 ✓
		155 10% discount		698.39
		Subtotal		6285.53
		7.65		
		SALES TAX		336.26 ✓
		ESTIMATED TOTAL		10621.79 ✓

completed

AUTHORIZATION Steven Craig TITLE Tool Pusher DATE 10-26-13

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

C

CONFIDENTIAL

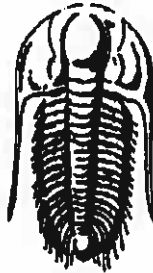


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**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO Box 8050  
Edmond OK 73083

ATTN: Kitt Noah

**Dirks "A" #27-1**

**27-15s-35w Logan,KS**

Start Date: 2013.11.01 @ 00:00:00

End Date:

Job Ticket #: 55807

DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.07 @ 10:45:59

Russell Oil Inc.

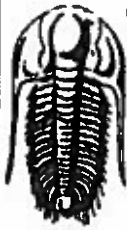
27-15s-35w Logan,KS

Dirks "A" #27-1

DST # 1

Mamm. Alt "A-B"

2013.11.01



**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

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

27-15s-35w Logan, KS  
 Dirks "A" #27-1  
 Job Ticket: 55807 DST#: 1  
 Test Start: 2013.11.01 @ 00:00:00

### GENERAL INFORMATION:

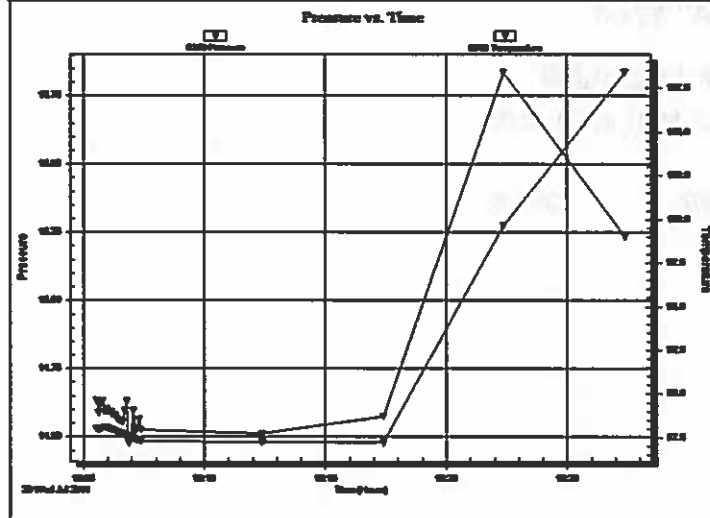
Formation: Marm. Alt "A-B"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened:  
 Time Test Ended:  
 Interval: 4336.00 ft (KB) To 4369.00 ft (KB) (TVD)  
 Total Depth: 4369.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Royal Fisher  
 Unit No: 44  
 Reference Elevations: 3131.00 ft (KB)  
 3123.00 ft (CF)  
 KB to GR/CF: 8.00 ft

### Serial #: 8319

Press@RunDepth: psig @ ft (KB)  
 Start Date: 2011.07.20 End Date: 2011.07.20 Capacity: 8000.00 psig  
 Start Time: 16:05:33 End Time: 16:27:23 Last Calib.: 1899.12.30  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: packer failure Recorders were not dow nloaded



### PRESSURE SUMMARY

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

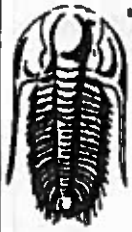
### Recovery

Length (ft)	Description	Volume (bbl)

### Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)





**TRIOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

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

27-15s-35w Logan,KS  
Dirks "A" #27-1  
Job Ticket: 55807  
DST#: 1  
Test Start: 2013.11.01 @ 00:00:00

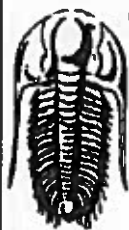
## Tool Information

Drill Pipe:	Length: 4100.00 ft	Diameter: 3.80 inches	Volume: 57.51 bbl	Tool Weight: 2500.00 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: 240.00 ft	Diameter: 2.25 inches	Volume: 1.18 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 58.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4336.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	60.00 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			4314.00	
Hydraulic tool	5.00			4319.00	
jars	5.00			4324.00	
safety Joint	3.00			4327.00	
Packer	5.00			4332.00	27.00 Bottom Of Top Packer
Packer	4.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	8360	Inside	4337.00	
Recorder	0.00	8353	Outside	4337.00	
Perforations	29.00			4366.00	
Bullnose	3.00			4369.00	33.00 Bottom Packers & Anchor

**Total Tool Length: 60.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

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

27-15s-35w Logan,KS  
Dirks "A" #27-1  
Job Ticket: 55807      DST#: 1  
Test Start: 2013.11.01 @ 00:00:00

## 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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.35 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 3800.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:           ft      Total Volume:           bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

Customer Russell Oil, Inc.	Lease No.	Date 11-7-13	
Lease Dirts	Well # 27-1		
Field Order # 4395	Station Pratt, Kansas	Casing 5 1/2 15.5 Lb.	Depth 4711 ft
Type Job C.N.W. - Two Stage Long string	Formation	County Logan	State Kansas
		Legal Description 27-155-35W	

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME	
Casing Size 5 1/2 15.5 Lb.	Tubing Size 4 1/2	Shots/Ft 165 sacks	From .75	To 15.3	AA2 with .88 Fluid Loss, 258 Defoamer, 108 salt, 5 Lb. Silsonite, 25 Lb. Cell flake	RATE Max Min Avg	PRESS 15 Min. 10 Min. 15 Min.
Depth 4711 Feet	Depth	From 5 Wedge and 2 Val	From	To 60 Blt Fresh Water and 52 Blt Drilling mud			
Volume 11.2 Bbl.	Volume	From	To				
Max Press	Max Press	From	To				
Well Connection 5 Wedge and 2 Val	Annulus Vol.	From	To				
Plug Depth 4664 Feet	Packer Depth	From	To				

Customer Representative: Todd  
Station Manager: Kevin Gordley  
Treater: Clarence R. Messick

Service Units	37.216	77.686	19.905	19.960	21.010
Driver Names	Messick	Young	Kevin		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:30					Truck on location and hold safety meeting.
3:50					H2 Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down • Baffle screwed into collar and a total of 112 Joints new 15.5 Lb./Ft 5 1/2" casing. A Turbolizer was installed on collars # 2, 4, 7, 10, 13, 16, 19 and # 55. A Basket was installed above collar # 53. A DV Tool was installed in collar # 54 or 2442 Feet down.
6:15					Casing in well. Circulate and rotate for 1 hour.
7:15	400			6	Start Super Flush II.
	400		24	5	Start Fresh water spacer.
	400		29	5	Start mixing 165 sacks AA2 Blend cement
	0-		69		Stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open well.
7:34	150			6.5	Start Fresh water Displacement
			60	5	Start Drilling mud Displacement
			85		Start to lift cement
7:55	400		112		Plug down.
	2000				Pressure up.
					Release pressure Float Shoe held.
8:02					Release Opening Device for DV Tool.
8:14	700				Open DV Tool.
					Heat up well for rig to circulate

Customer Russell Oil, Inc.	Lease No.	Date 11-7-13
Lease Dirts	Well # 27-1	
Field Order # 4395	Station Pratt, Kansas	Casing 5 1/2
	Depth 2442	County Logan
Type Job C.N.W. - Two Stage Long string	Formation	State Kansas
		Legal Description 27-155-35W

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 5 1/2	Shots/Ft 350	350	ACON Blend cement	RATE 25	PRESS T. Cell Plate	ISIP 5 Min.	
Depth 2442	Depth	From	To	380 Perchloride	Max			
Volume 58 Bbl.	Volume	From	To	11.6 Lbl / Gal, 16.75 Gal	Min	2.77 cu. ft. / st.	10 Min.	
Max Press	Max Press	From	To		Avg		15 Min.	
Well Connection Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 2442	Packer Depth	From	To	Flush 58 Bbl. Fresh Water	Gas Volume		Total Load	

Customer Representative Todd	Station Manager Kevin Gordley	Treater Clarence R. Messich
---------------------------------	----------------------------------	--------------------------------

Service Units 37,216	77,686	19,905	70,959	19,860
Driver Names Messich	Yong			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					Stop circulating.
8:25	200			6	Install Plug Container with Closing Plug in it
	-0-		173		Start mixing 350 sacks A con Blend cement
					Stop mixing. Shut in well. Wash pump and lines.
	150				Release Closing Plug. Open well.
9:09	500		58		Start Fresh water Displacement
	1200				Plug down. Circulated 60 Bbl. cement to pit.
					Pressure up and close D.H. Tool.
					Plug Rat and Mouse holes.
					Wash up pump truck.
10:15					Job complete.
					Thank You.
					Clarence, Steve, Tim, Henry