

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1242183
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: _____

1242183

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Sigle-Williams 35-1
Doc ID	1242183

All Electric Logs Run

BOREHOLE COMPENSATED SONIC
DUAL INDUCTION
DUAL COMPENSATED
MIRCRORESISTIVITY

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Sigle-Williams 35-1
Doc ID	1242183

Tops

Name	Top	Datum
ANHYDRITE	646	+977
BASE ANHYDRITE	680	+943
TOPEKA	2561	-938
HEEBNER	2799	-1176
TORONTO	2821	-1198
LANSING	2856	-1233
BASE KC	3172	-1549
CHEROKEE	3298	-1675
BSL PENN CONG	3360	-1736
MISS CHERT	3408	-1785
VIOLA	3502	-1879
SIMPSON	3748	2125
ARBUCKLE	3792	-2169
RTD	3850	-2227

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 688

Date <u>11-8-14</u>	Sec. <u>3</u>	Twp. <u>10</u>	Range <u>12</u>	County <u>Osborne</u>	State <u>KS</u>	On Location	Finish <u>9:00 AM</u>
				Location <u>Luray N to 280 Rd, 3E to S 80 Rd, 1S, S42</u>			
Lease <u>Single-williams</u>		Well No. <u>35-1</u>		Owner			
Contractor <u>Southwind #9</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job <u>Plug</u>		Charge To <u>Russell oil</u>					
Hole Size <u>7 3/8</u>		T.D. <u>3850</u>		Street			
Csg.		Depth		City			
Tbg. Size		Depth		State			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered <u>220sx 60/40, 4% gel, 1/4" Flow</u>			
Meas Line		Displace					
EQUIPMENT				Common <u>132</u>			
Pumptrk <u>16</u>	No.	Cementar. <u>Travis</u>		Poz. Mix <u>88</u>			
Bulktrk <u>14</u>	No.	Driver <u>Tyson</u>		Gel. <u>8</u>			
Bulktrk	No.	Driver		Calcium			
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal <u>50ft</u>			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
DN or Port Collar				Sand			
<u>50sx 20' Above APH</u>				Handling <u>228</u>			
<u>50sx at 660</u>				Mileage			
<u>80sx at 460</u>				FLOAT EQUIPMENT			
<u>10sx at 40 with plug</u>				Golds Shoe			
<u>30sx Rat</u>				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				<u>1 wood plug</u>			
				Pumptrk Charge <u>plug</u>			
				Mileage <u>29</u>			
				Tax			
				Discount			
				Total Charge			

X Signature

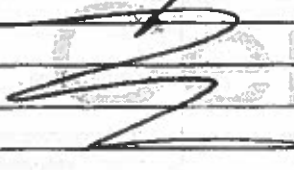
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 784

Date	10-31-14	Sec.	35	Twp.	10	Range	12	County	OSBORNE	State	KS	On Location		Finish	9:15 AM	
Lease	Sigler-Williams							Well No.	35-1	Owner	LARRY N TO 280 AD E9 SINDO					
Contractor	Southwind								9	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Type Job	Systems									Charge To	Russell Oil					
Hole Size	12 1/4							T.D.	355	Street						
Csg.	8 5/8							Depth	355	City						
Tbg. Size								Depth		State						
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.						
Cement Left in Csg.	20 FT							Shoe Joint	20 FT	Cement Amount Ordered	180 3/6 2%					
Meas Line								Displace	21.3 BBL	901						
EQUIPMENT										Common	180					
Pumptrk	20	No.		Cementar		Helper				Poz. Mix						
Bulktrk	3	No.		Driver		Driver				Gel.	3					
Bulktrk	04	No.		Driver		Driver				Calcium	17 6					
JOB SERVICES & REMARKS										Hulls						
Remarks:											Salt					
Rat Hole											Flowseal					
Mouse Hole											Kol-Seal					
Centralizers											Mud CLR 48					
Baskets											CFL-117 or CD110 CAF 38					
D/V or Port Collar											Sand					
Cement did Circulate										Handling	190 189					
										Mileage						
Thank You 										FLOAT EQUIPMENT						
										Guide Shoe						
										Centralizer						
										Baskets						
P										AFU Inserts						
										Float Shoe						
X Signature Henry Parks										Latch Down						
										Pumptrk Charge	Surface					
										Mileage	29					
										Tax						
										Discount						
										Total Charge						



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

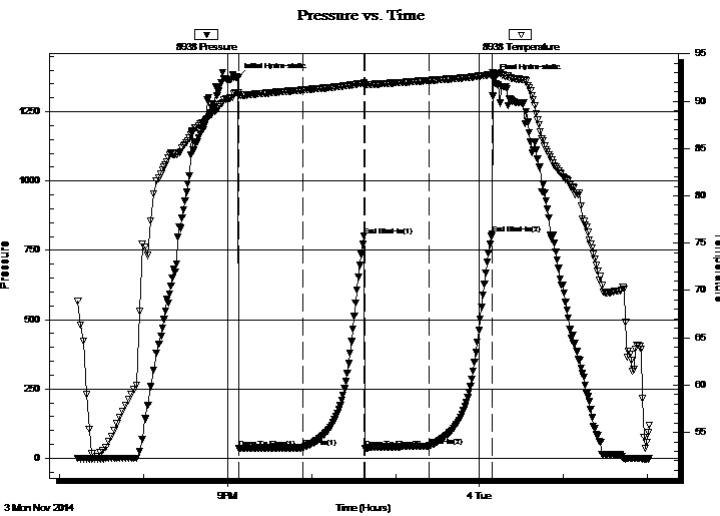
35-10s-12w Osborne, KS
Sigle-Williams #35-1
Job Ticket: 60393 **DST#: 1**
Test Start: 2014.11.03 @ 19:13:00

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)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

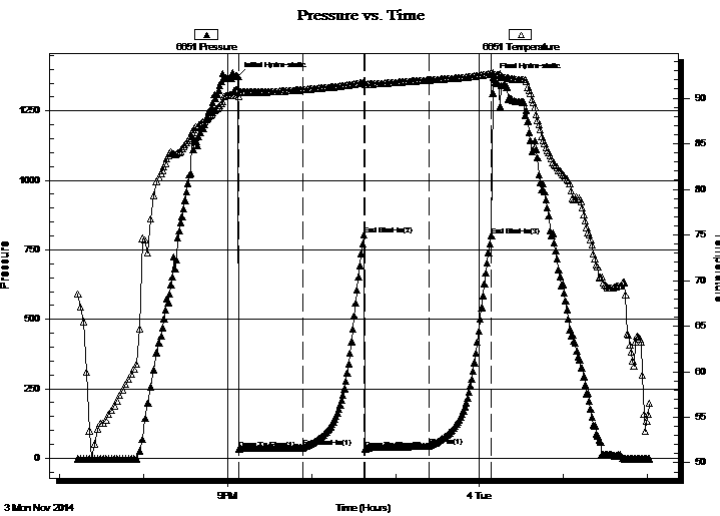
35-10s-12w Osborne, KS
Sigle-Williams #35-1
Job Ticket: 60393 **DST#: 1**
Test Start: 2014.11.03 @ 19:13:00

GENERAL INFORMATION:

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

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 in³

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

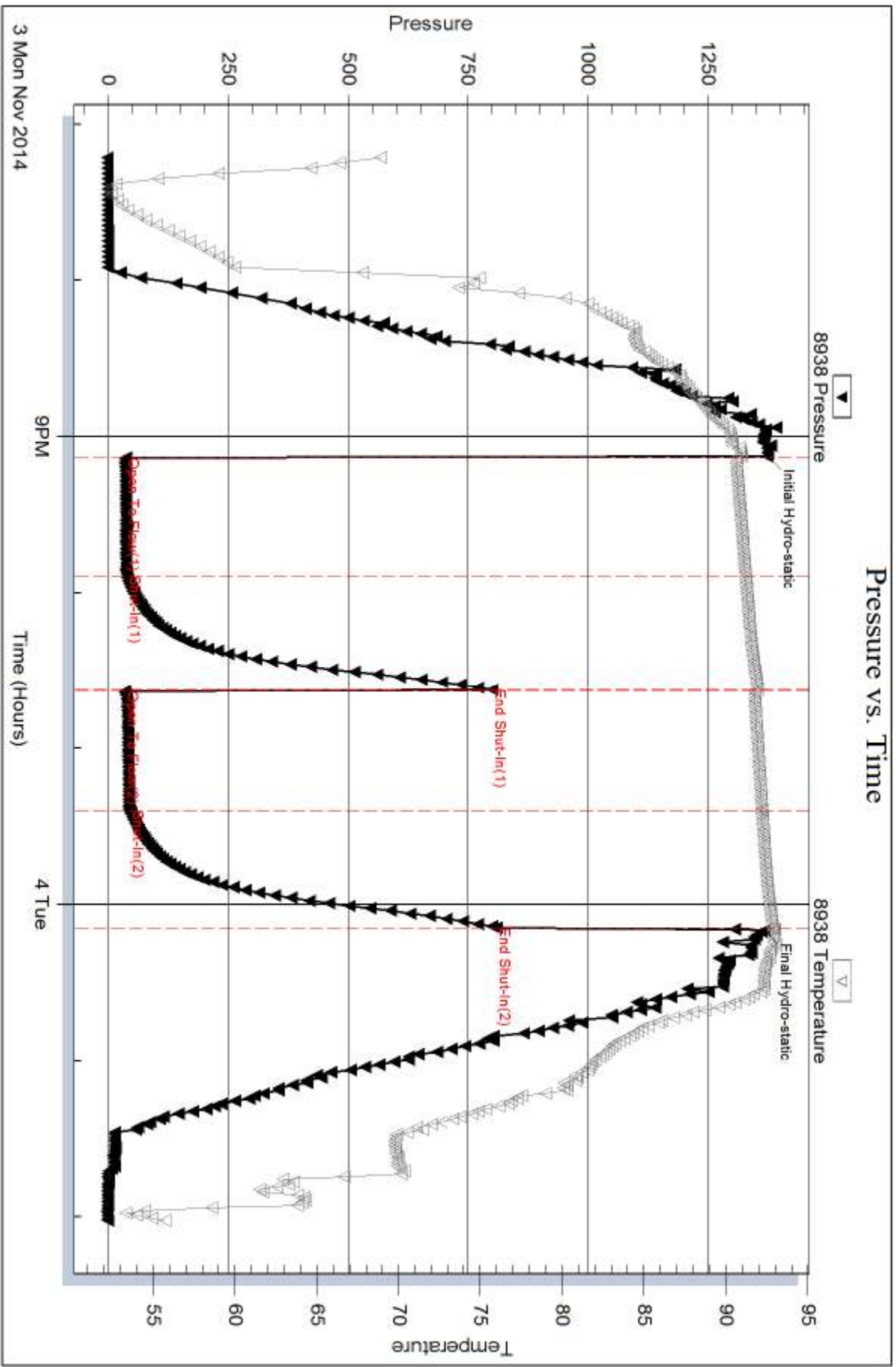
Serial #:

Laboratory Name:

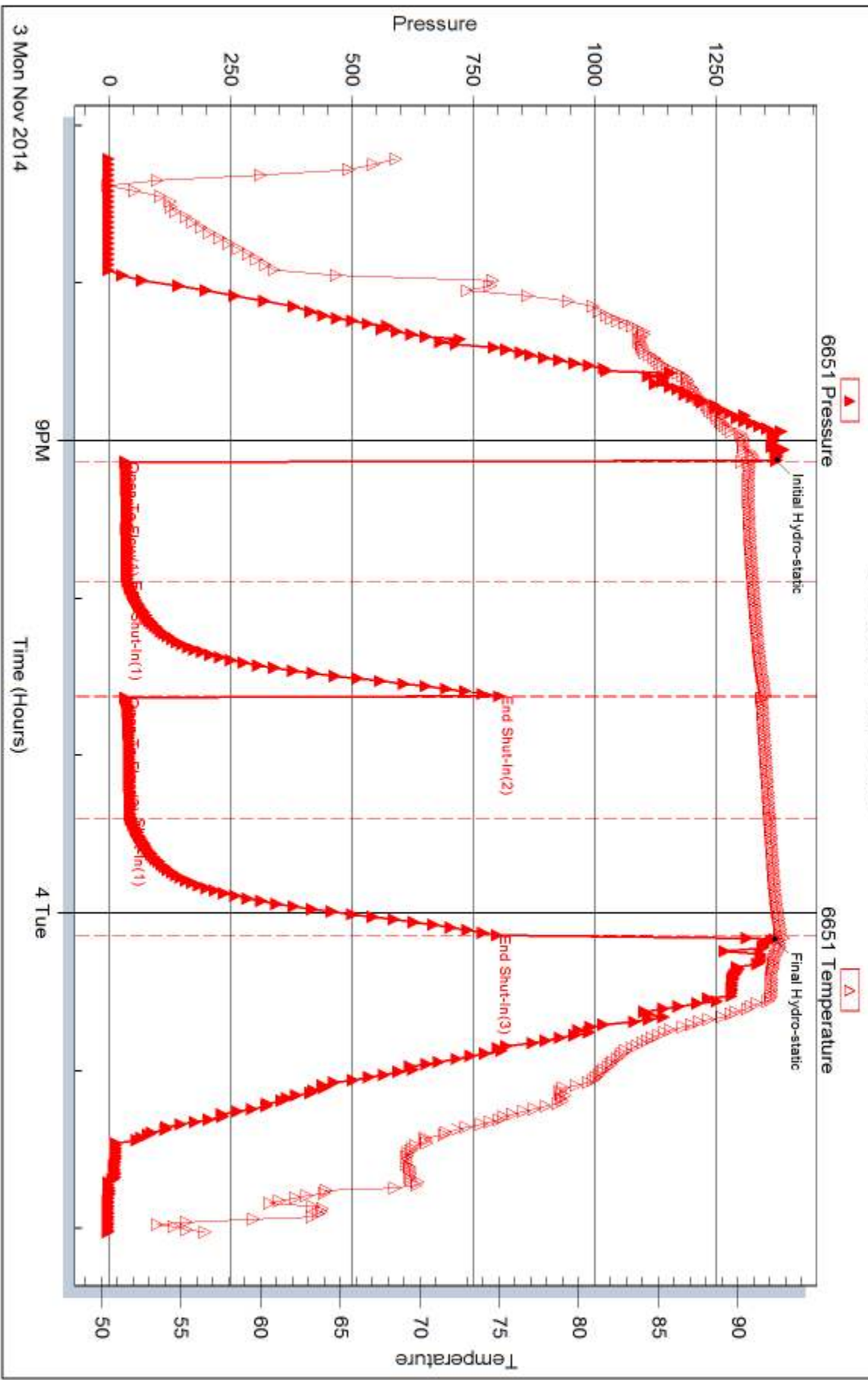
Laboratory Location:

Recovery Comments:

Pressure vs. Time



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

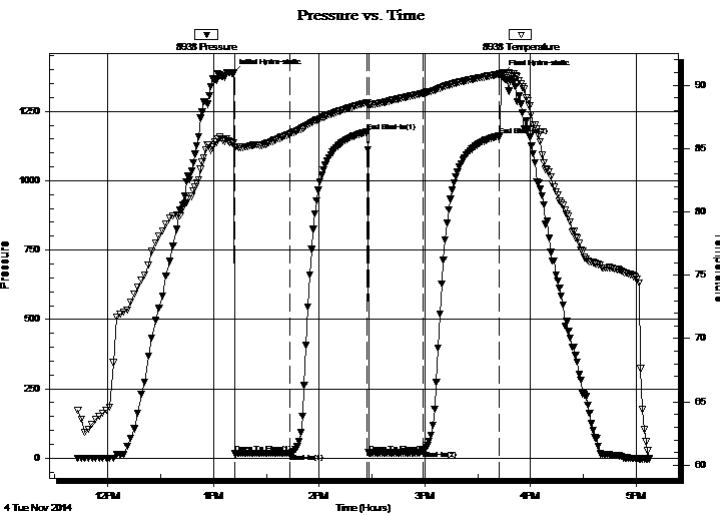
35-10s-12w Osborne, KS
Sigle-Williams #35-1
Job Ticket: 60394 **DST#: 2**
Test Start: 2014.11.04 @ 11:43:00

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)



**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

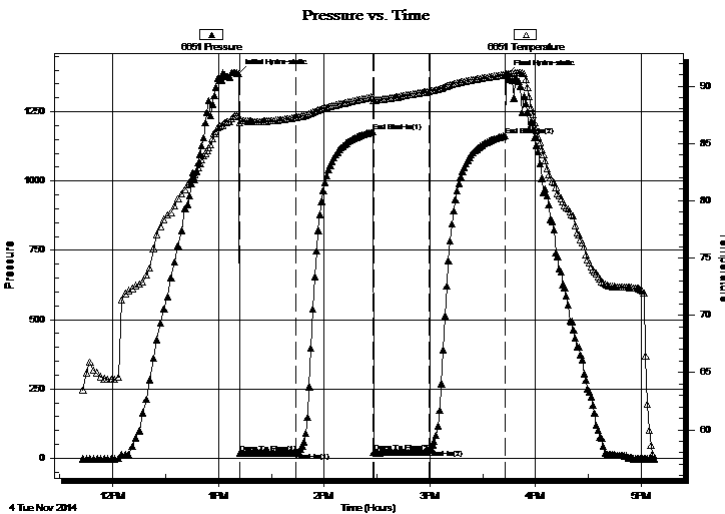
GENERAL INFORMATION:

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 #: 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

Gas Rates

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

	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
Total Tool Length:	42.00				



**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: 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 in³

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
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

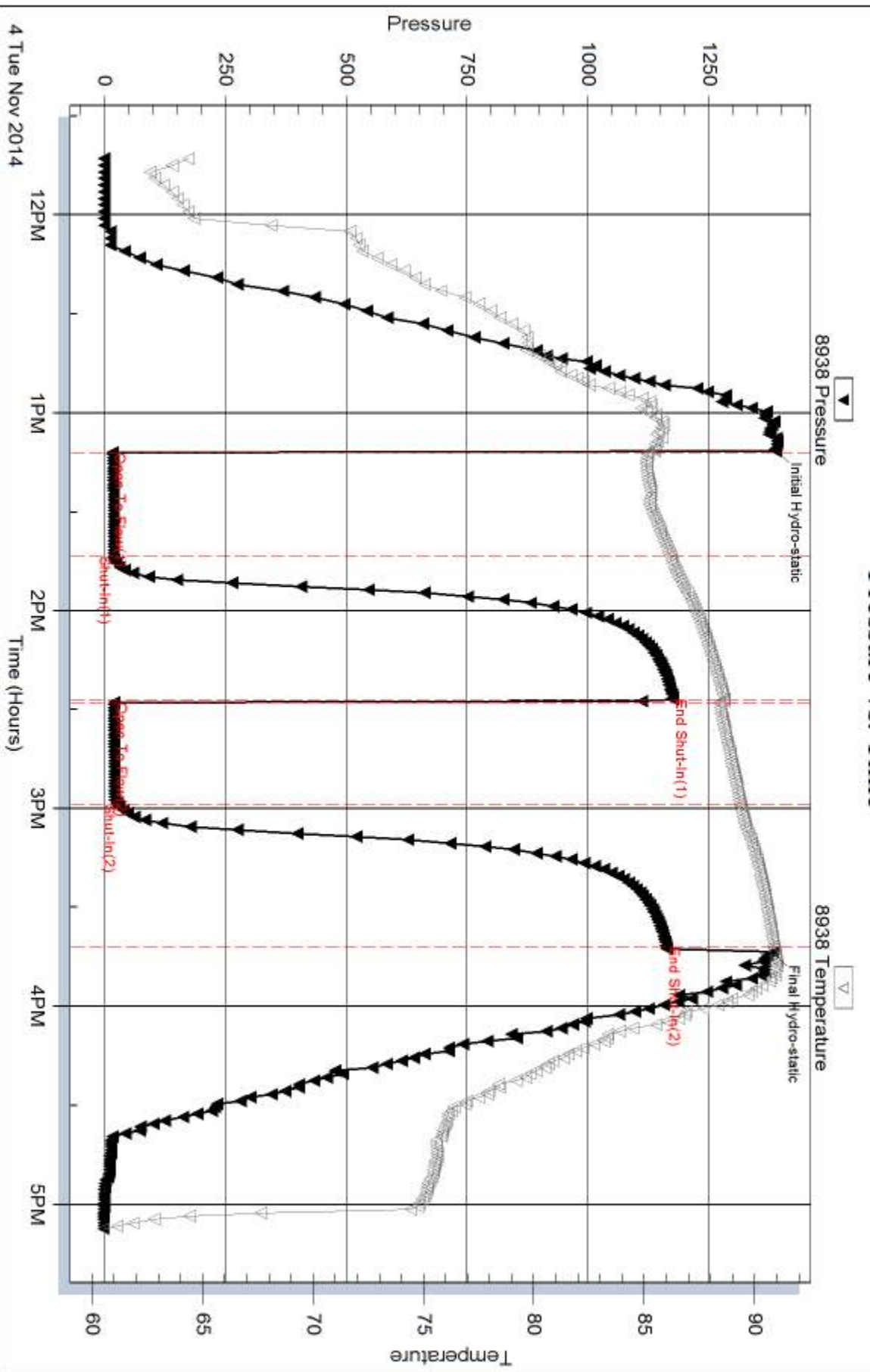
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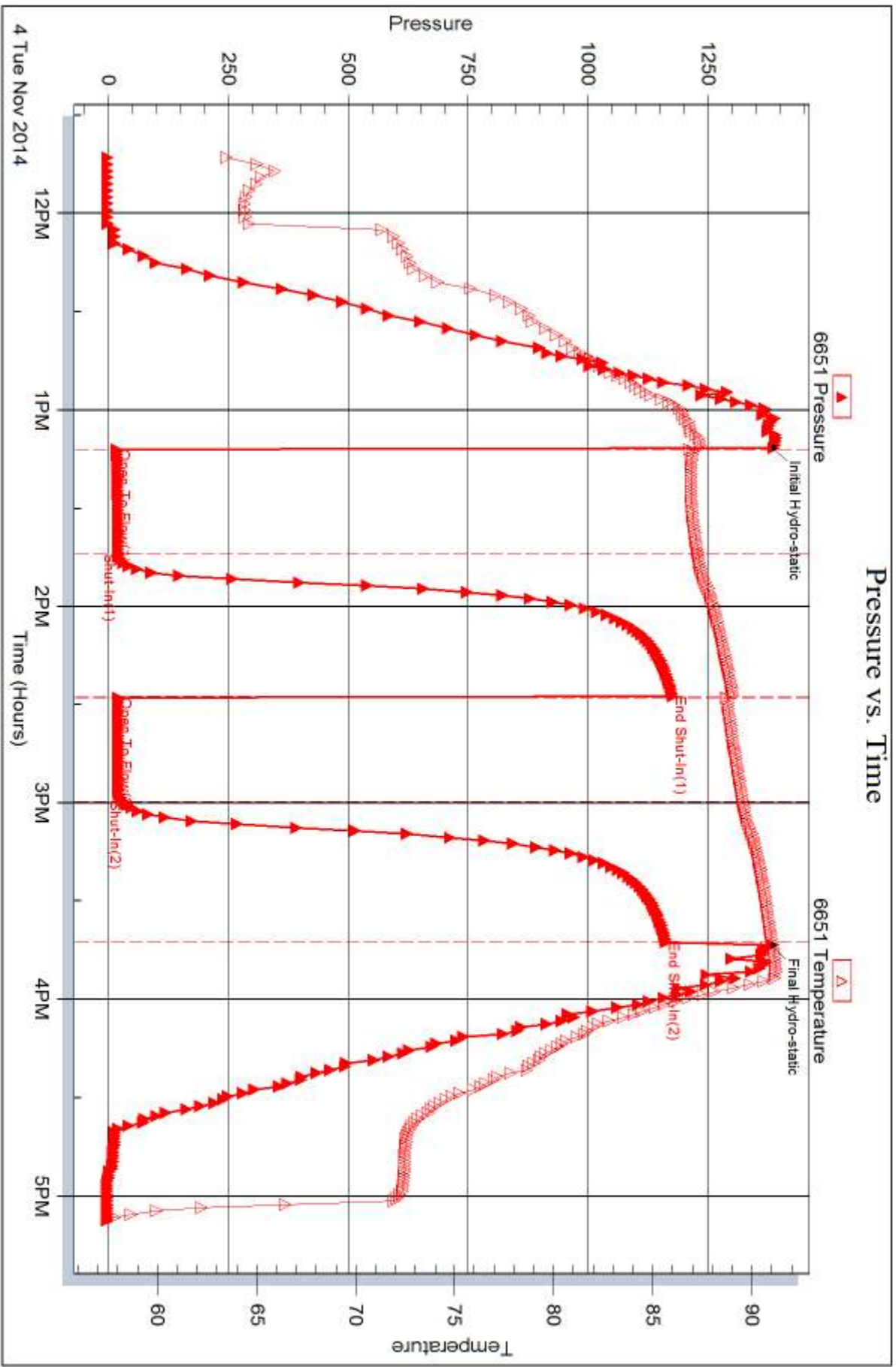
Laboratory Name:

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

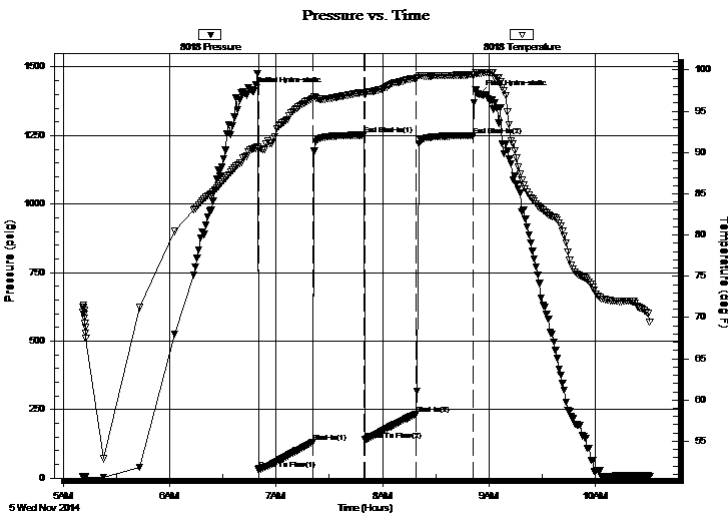
Serial #: 8018

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

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 in³

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

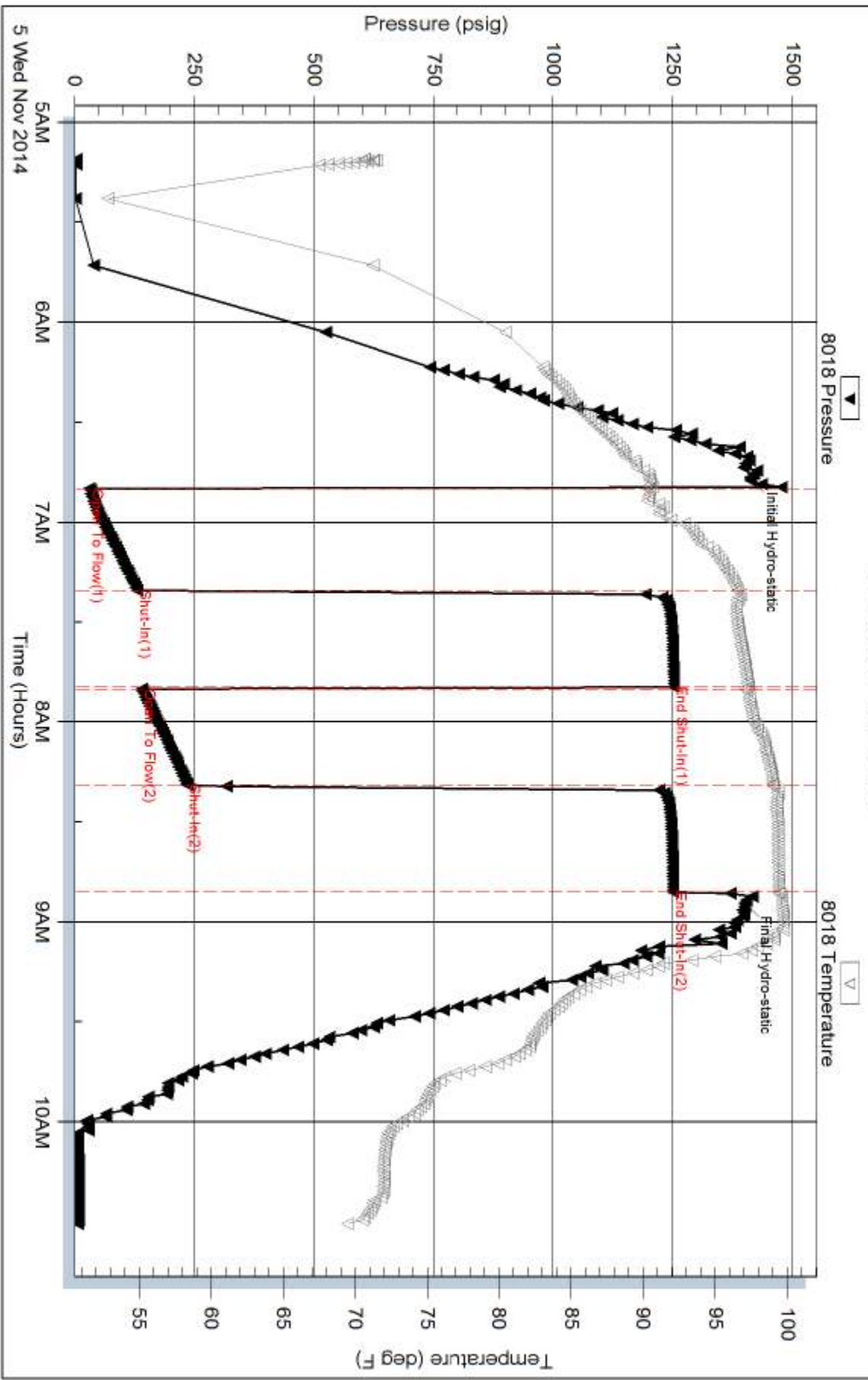
Inside

Russell Oil Inc.

Stige-Williams #35-1

DST Test Number: 3

Pressure vs. Time

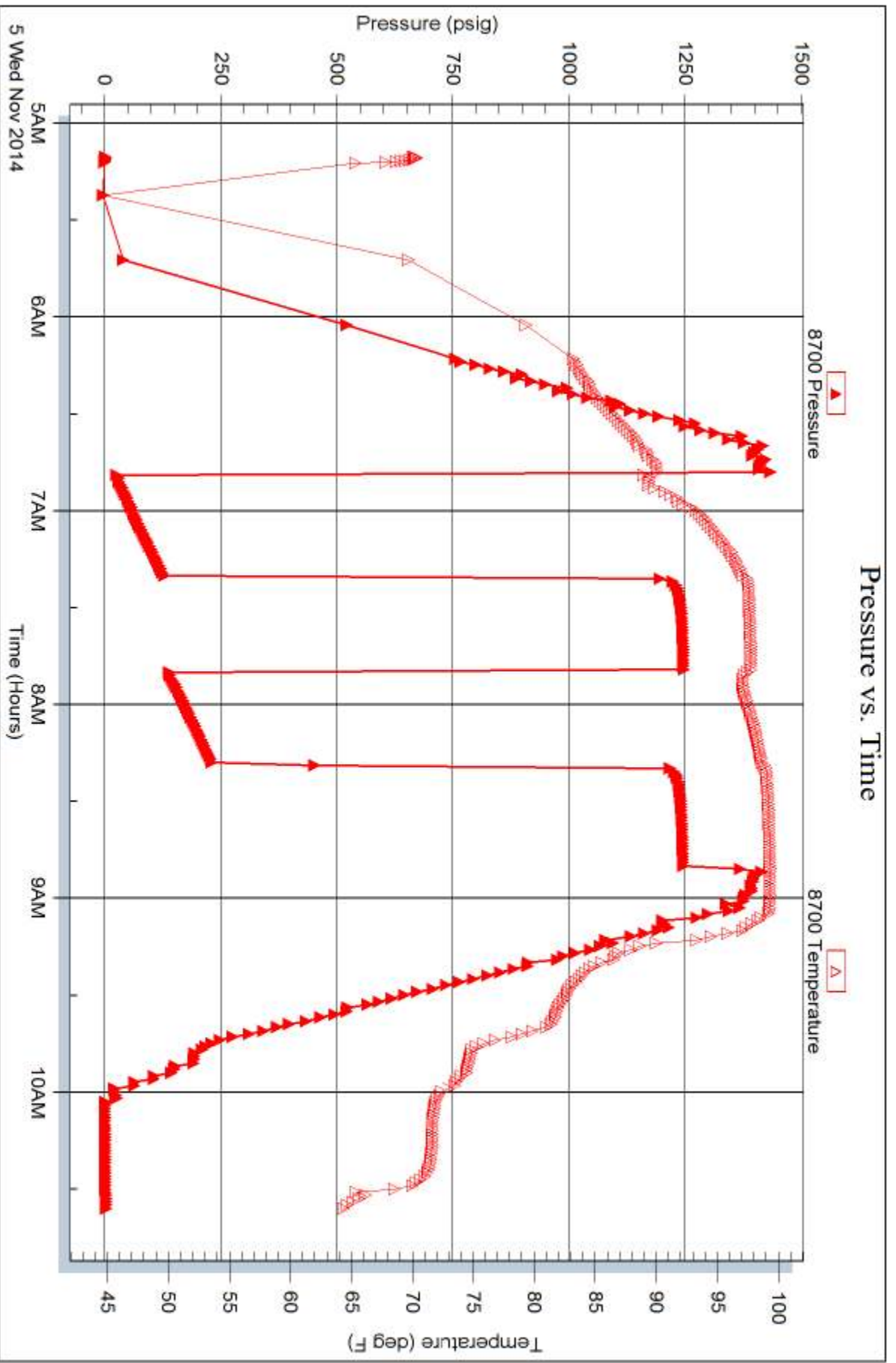


Serial #: 8700

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^S Rge. 12^W 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 1st OPEN WEAK SURFACE blow through out
2nd 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 & 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 _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1648.60
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 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^s Rge. 12^w 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 1st OPEN VERY WEAK SURFACE blow for 21 minutes & DIED
2nd 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

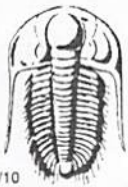
Rec Total 10 BHT 90 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(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 _____
 Ruined Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1648.60

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Total 1648.60
 MP/DST Disc't _____

Approved By _____ Our Representative Gene Budy
 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. 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^s Rge. 12^w 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 IFFP - 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
Initial Open <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Initial Shut-In <u>30</u>	<input type="checkbox"/> Day Standby <u>2.5d</u>	Total <u>2622.20</u>
Final Flow <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
Final Shut-In <u>30</u>	Sub Total <u>1822.20</u>	

Approved By _____ Our Representative Ray Schwager Thank you

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.