



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- 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

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

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

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

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

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

Total 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**

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



1055201

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

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

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Keil A 2-32
Doc ID	1055201

All Electric Logs Run

DUAL COMPENSATED POROSITY
DUAL INDUCTION
MICRORESISTIVITY
BOREHOLE COMPENSATED SONIC
COMPUTER PROCESSED INTERPRETATION
SECTOR BOND LOG

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Keil A 2-32
Doc ID	1055201

Tops

Name	Top	Datum
TOP ANHYDRITE	930	+1001
TARKIO	2581	-650
HOWARD	2777	-846
TOPEKA	2850	-919
HEEBNER	3080	-1149
TORONTO	3098	-1167
LANSING	3142	-1211
BKC	3380	-1449
ARBUCKLE	3391	-1460

# 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. 4512

Date	1/20/11	Sec.	32	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	4:00 PM
Lease	Keil A	Well No.	2-37		Location Russell, 5 to Milberger Rd, 2 1/2 W, St W into										
Contractor	Southwind Drilling Rpt#1							Owner							
Type Job	Surface							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.							
Hole Size	12 1/4"		T.D.		927'		Charge To								
Csg.	8 5/8" 24#		Depth		927'		Russell Oil, Inc.								
Tbg. Size			Depth		Street										
Tool			Depth		City State										
Cement Left in Csg.	18'		Shoe Joint		18'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		57 3/4 Bbls.		Cement Amount Ordered 350sx Com 3% @ 2% gel								

**EQUIPMENT**

Pumptrk	9	No.	Cementer	Paul	Common	350
			Helper			
Bulktrk	10	No.	Driver	Rocky	Poz. Mix	
			Driver			
Bulktrk	PV	No.	Driver	Doug	Gel.	7
			Driver			

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
Est. Circulation	Sand
Mix 350sx	Handling 370
Displace	Mileage
Lead Plug	
Cement Circulated	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	8 5/8"
AFU Inserts	
Float Shoe	
Latch Down	
Baffle Plate - Rubber Plug	
Head + Main Fold	
Pumptrk Charge	Long Surface Job
Mileage	14

Thank You!

X Signature *Frank Rowe*

Tax  
Discount  
Total Charge



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.  
P.O. Box 129  
Liberal, Kansas 67905  
Phone 620-624-2277

FIELD SERVICE TICKET

1717 01220 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 1-27-11	DISTRICT: 1717	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:			
CUSTOMER: Russell Oil Inc.		LEASE: KEIL 'A'		2-32		WELL NO.				
ADDRESS:		COUNTY: Russell		STATE: KS						
CITY:		STATE:		SERVICE CREW: Rodice, ED						
AUTHORIZED BY: Tyce Davis JRB		JOB TYPE: 5 1/2 L.S. 242								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
198588	5									9:00
30463	5									2:45
19843	5									6:05
19878	5									7:12
19883	5									5:00
						MILES FROM STATION TO WELL				

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Todd Brown  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CC105	AA-2 Cement	SK	150		2730.00
CC103	60/40 POT	SK	50		600.00
CC102	Collapsible	lb	38		140.60
CC105	Delfamar	lb	36		144.00
CC111	Salt	lb	683		341.50
CC115	Gas-block	lb	106		545.90
CC129	FIA-322	lb	113		847.50
CC201	Gilsonite	lb	750		502.50
CF103	Top Rubber Plug 5 1/2	EA	1		105.00
CF251	Guide Shoe Rog 5 1/2	EA	1		250.00
CF1451	Flapper Float Valve 5 1/2	EA	1		215.00
CF1651	Turbolizer 5 1/2	EA	14		1540.00
CF2002	Rotating Scratchers	EA	15		750.00
CC155	Superflush II	gal	500		765.00
CF704	C5-11 KCL Sub.	gal	2		70.00
F100	Pickup Mileage	mi	75		318.75
F101	Heavy Equip Mileage	mi	150		1050.00
F113	Bulk Delivery Charge	1m	690		1104.00
CF704	Depth Charge 3001 to 4000'	4hr	1		2160.00

SUB TOTAL **11,162.72**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: Chad Hite  
FIELD SERVICE ORDER NO. \_\_\_\_\_

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Todd Brown  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



### Cement Report

Customer <b>Russell Oil Inc.</b>		Lease No.	Date <b>1-27-11</b>
Lease <b>KEIL "A"</b>		Well # <b>2-32</b>	Service Receipt
Casing <b>5 1/2</b>	Depth <b>3500'</b>	County <b>Russell</b>	State <b>Ks</b>
Job Type <b>5 1/2 Longstring</b>	Formation	Legal Description <b>32-15-14</b>	

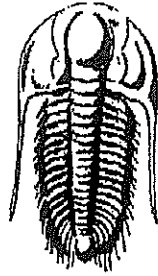
Pipe Data		Perforating Data		Cement Data
Casing size <b>5 1/2</b>	Tubing Size	<b>Shots/Ft</b>		<b>Lead 150sx AA-2</b>
Depth <b>3497'</b>	Depth	From	To	<b>@ 15.3# 11.3cu ft/box</b>
Volume <b>82.7</b>	Volume	From	To	<b>5.46 gal/box 4# cement</b>
Max Press <b>1500#</b>	Max Press	From	To	<b>2590 Defoamer 0.8 gal/ft</b>
Well Connection <b>P.C.</b>	Annulus Vol.	From	To	<b>Tail in 1.8% FIA-322, 5#</b>
Plug Depth	Packer Depth	From	To	<b>Gibsonite</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
14:00					Start FF. Cont. on 2, 3, 4, 6, 8, 9, 10, 11, 12, 14, 65, 71, 79, 83
14:56					Break Circ
14:05					Psi test 2500#
14:06	200		5	3	Pump H2O spacer
14:08	200		12	4	Pump Superflush
14:11	200		5	4	Pump H2O spacer
14:13	200		0	4.5	Start Mix AA-2 @ 15.3#
14:20	0		36.5	-	Finish mixing
14:23					Washup, Drop Plug
14:31	0		0	4-6	Start Dip
14:44			63	3	Slow Kill
14:51	550-1100		83	-	Plug Down
14:53					Release Psi, float held
14:00					Plug RTM w/ 50sx 60/40 Poz
14:08					Washup RTM
14:12					Job Complete
					Thank You
					Chad & Crew

Service Units	198866	3046319847	1982819883	
Driver Names	Chad	R. Dols	E. Madczka	

Todd Customer Representative     
 Jerry Bennett Station Manager     
 Chad Hinz Cementer





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO box 8050  
Edmond, OK 73083

ATTN: Steve Murphy

**32-15s14w Russell KS**

**Keil #2-32**

Start Date: 2011.01.24 @ 03:08:26

End Date: 2011.01.24 @ 09:17:26

Job Ticket #: 41293                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Russell Oil Inc.

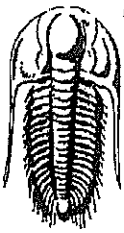
Keil #2-32

32-15s14w Russell KS

DST # 1

LKC-"C"

2011.01.24



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Russell Oil Inc.  
PO box 8050  
Edmond, OK 73083  
ATTN: Steve Murphy

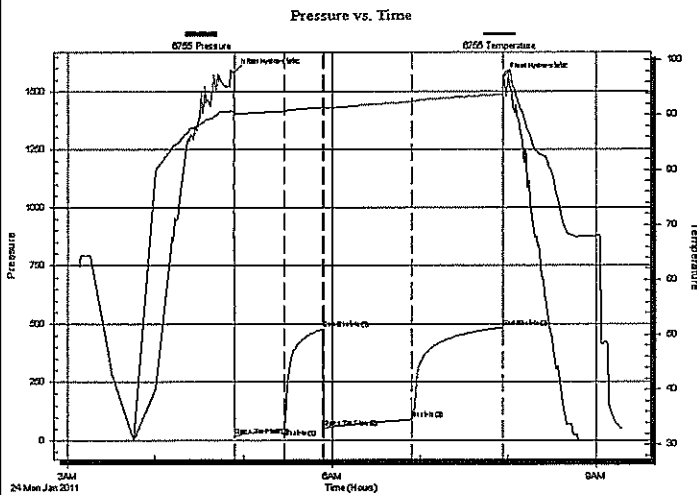
Keil #2-32  
32-15s14w Russell KS  
Job Ticket: 41293      DST#: 1  
Test Start: 2011.01.24 @ 03:08:26

## GENERAL INFORMATION:

Formation: **LKC-"C"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:53:41  
 Time Test Ended: 09:17:26  
 Interval: **3166.00 ft (KB) To 3175.00 ft (KB) (TVD)**  
 Total Depth: **3175.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: Good  
 Test Type: Conventional Bottom Hole  
 Tester: Jason McLemore  
 Unit No: 54  
 Reference Elevations: 1931.00 ft (KB)  
 1923.00 ft (CF)  
 KB to GRVCF: 8.00 ft

**Serial #: 6755** Inside  
 Press@RunDepth: 88.91 psig @ 3167.00 ft (KB)  
 Start Date: 2011.01.24 End Date: 2011.01.24  
 Start Time: 03:08:28 End Time: 09:17:26  
 Capacity: 8000.00 psig  
 Last Calib.: 2011.01.24  
 Time On Btm: 2011.01.24 @ 04:53:26  
 Time Off Btm: 2011.01.24 @ 07:57:11

TEST COMMENT: IFP-Good Blow ,BOB in 25 Min.  
 ISI-Dead  
 FFP-Good Blow ,BOB in 45 Min.  
 FSI-Dead



## PRESSURE SUMMARY

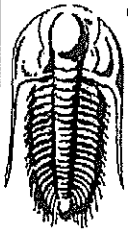
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1582.17	90.67	Initial Hydro-static
1	18.53	90.00	Open To Flow (1)
34	50.10	90.68	Shut-In(1)
60	479.05	91.40	End Shut-In(1)
61	52.64	91.20	Open To Flow (2)
121	88.91	92.43	Shut-In(2)
183	484.78	93.74	End Shut-In(2)
184	1563.12	96.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Clean Oil	0.01
125.00	Muddy Water-90%W-10%M	1.75

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

Keil #2-32

PO box 8050  
Edmond, OK 73083

32-15s14w Russell KS

Job Ticket: 41293

DST#: 1

ATTN: Steve Murphy

Test Start: 2011.01.24 @ 03:08:26

## Tool Information

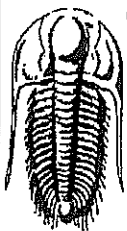
Drill Pipe:	Length: 3168.00 ft	Diameter: 3.80 inches	Volume: 44.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 44.44 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3166.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:  
Shale Packer on Bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3139.00	
Shut In Tool	5.00			3144.00	
Hydraulic tool	5.00			3149.00	
Jars	5.00			3154.00	
Safety Joint	2.00			3156.00	
Packer	5.00			3161.00	28.00 Bottom Of Top Packer
Packer	5.00			3166.00	
Stubb	1.00			3167.00	
Recorder	0.00	6755	Inside	3167.00	
Recorder	0.00	8673	Outside	3167.00	
Perforations	5.00			3172.00	
Bullnose	3.00			3175.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 37.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Keil #2-32

PO box 8050  
Edmond, OK 73083

32-15s14w Russell KS

Job Ticket: 41293

DST#: 1

ATTN: Steve Murphy

Test Start: 2011.01.24 @ 03:08:26

## 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: 200000 ppm	
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7100.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Clean Oil	0.014
125.00	Muddy Water-90%W-10%M	1.753

Total Length: 126.00 ft

Total Volume: 1.767 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .111 @ 30F = 20000 ppm

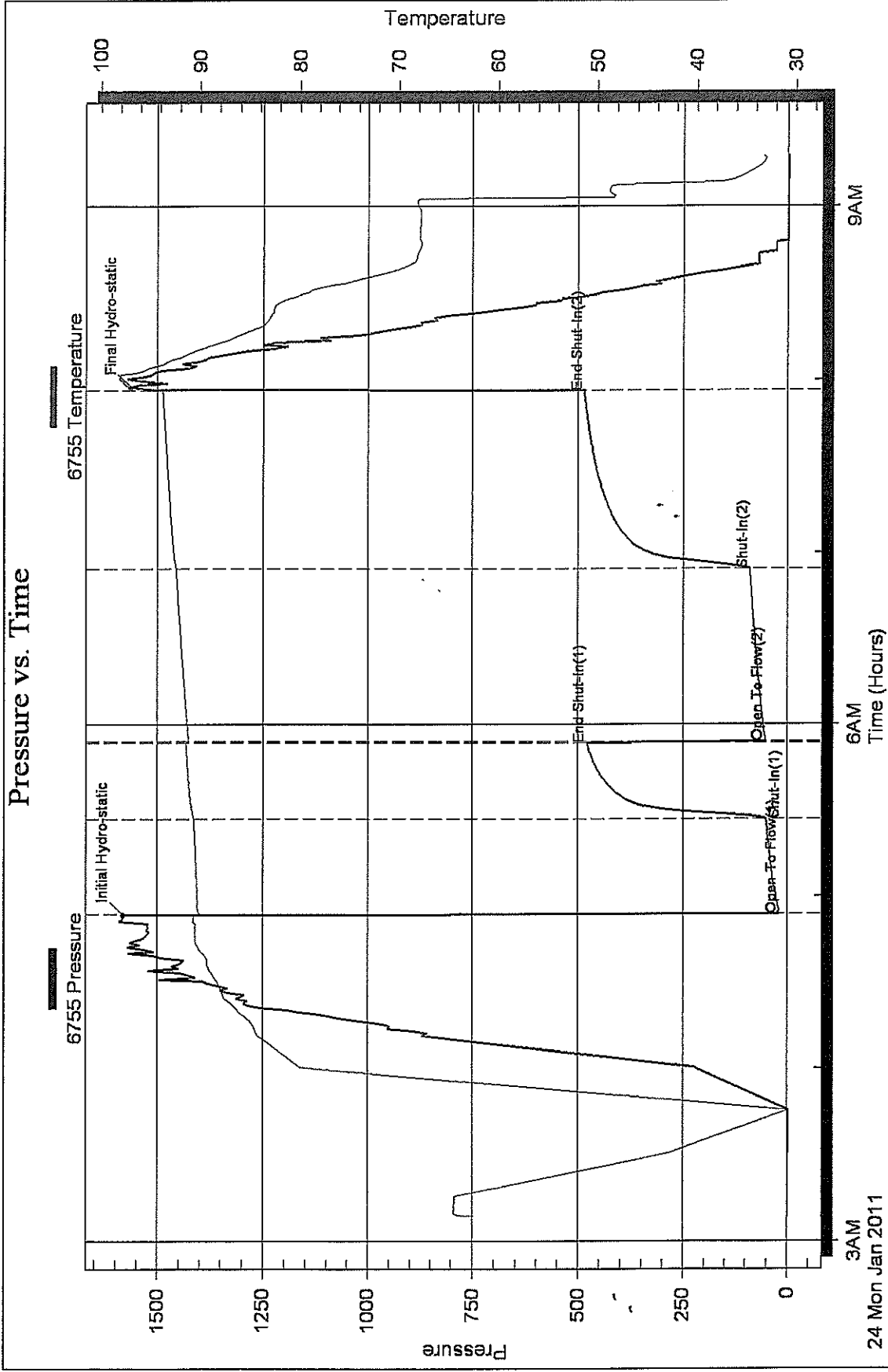
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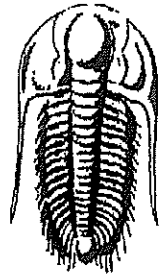
Inside

Russell Oil Inc.

32-15s14w Russell KS

DST Test Number: 1





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO box 8050  
Edmond, OK 73083

ATTN: Steve Murphy

**32-15s14w Russell KS**

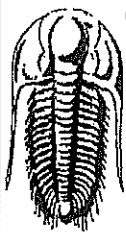
**Keil #2-32**

Start Date: 2011.01.24 @ 17:36:22

End Date: 2011.01.24 @ 23:43:22

Job Ticket #: 41294      DST #: 2

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Russell Oil Inc.  
PO box 8050  
Edmond, OK 73083  
ATTN: Steve Murphy

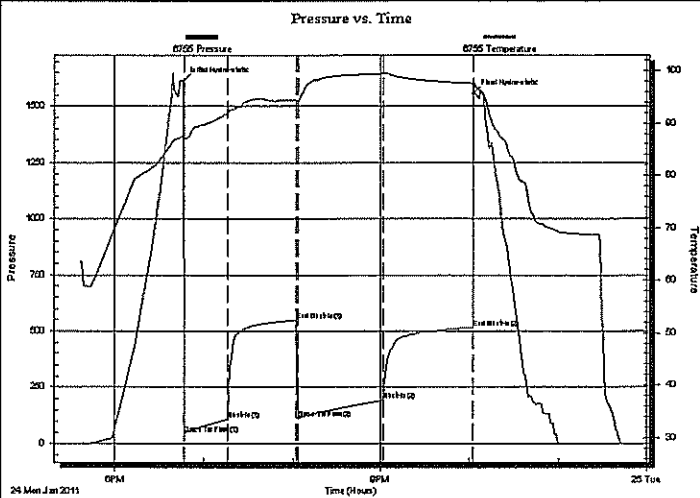
**Keil #2-32**  
**32-15s14w Russell KS**  
Job Ticket: 41294      **DST#: 2**  
Test Start: 2011.01.24 @ 17:36:22

### GENERAL INFORMATION:

Formation: **D-E-F**  
 Deviated: **No** Whipstock: **ft (KB)**      Test Type: **Conventional Bottom Hole**  
 Time Tool Opened: **18:46:37**      Tester: **Jason McLemore**  
 Time Test Ended: **23:43:22**      Unit No: **54**  
 Interval: **3178.00 ft (KB) To 3230.00 ft (KB) (TVD)**      Reference Elevations: **1931.00 ft (KB)**  
 Total Depth: **3230.00 ft (KB) (TVD)**      **1923.00 ft (CF)**  
 Hole Diameter: **7.80 inches** Hole Condition: **Good**      KB to GR/CF: **8.00 ft**

**Serial #: 6755**      **Inside**  
 Press@RunDepth: **192.90 psig @ 3214.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.01.24**      End Date: **2011.01.24**      Last Calib.: **2011.01.24**  
 Start Time: **17:36:24**      End Time: **23:43:22**      Time On Btm: **2011.01.24 @ 18:46:22**  
 Time Off Btm: **2011.01.24 @ 22:02:52**

**TEST COMMENT:** IFF-Strong BOB in 7Min.  
 ISI-Dead for 15Min Then Blow back Built to 1/4" Lasted Throughout.  
 FFP-Good Blow BOB in 14Min.  
 FSI-Blow back Built to 3/4" Lasted Throughout



### PRESSURE SUMMARY

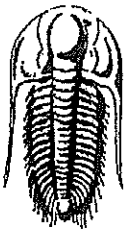
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.01	87.43	Initial Hydro-static
1	42.88	86.45	Open To Flow (1)
30	107.85	91.85	Shut-In(1)
76	548.93	94.40	End Shut-In(1)
77	111.73	94.09	Open To Flow (2)
136	192.90	99.39	Shut-In(2)
197	512.61	97.52	End Shut-In(2)
197	1555.61	98.05	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Frothy OCMW-60%G-10%O-20%W-10%0.07	
325.00	Muddy Water W/Oil Scum	4.56
0.00	210' Gas In Pipe	0.00

### Gas Rates

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



**TRILOBITE**  
TESTING, INC

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.

Keil #2-32

PO box 8050  
Edmond, OK 73083

32-15s14w RusseII KS

Job Ticket: 41294

DST#: 2

ATTN: Steve Murphy

Test Start: 2011.01.24 @ 17:36:22

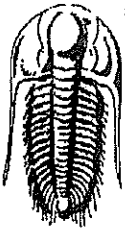
### Tool Information

Drill Pipe:	Length: 3173.00 ft	Diameter: 3.80 inches	Volume: 44.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 44.51 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3178.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	80.00 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			3151.00	
Shut In Tool	5.00			3156.00	
Hydraulic tool	5.00			3161.00	
Jars	5.00			3166.00	
Safety Joint	2.00			3168.00	
Packer	5.00			3173.00	28.00 Bottom Of Top Packer
Packer	5.00			3178.00	
Stubb	1.00			3179.00	
Perforations	2.00			3181.00	
Change Over Sub	1.00			3182.00	
Blank Spacing	31.00			3213.00	
Change Over Sub	1.00			3214.00	
Recorder	0.00	6755	Inside	3214.00	
Recorder	0.00	8673	Outside	3214.00	
Perforations	13.00			3227.00	
Bullnose	3.00			3230.00	52.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>80.00</b>				





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Keil #2-32

PO box 8050  
Edmond, OK 73083

32-15s14w Russell KS

Job Ticket: 41294

DST#: 2

ATTN: Steve Murphy

Test Start: 2011.01.24 @ 17:36:22

## 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: 180000 ppm	
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.75 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7100.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

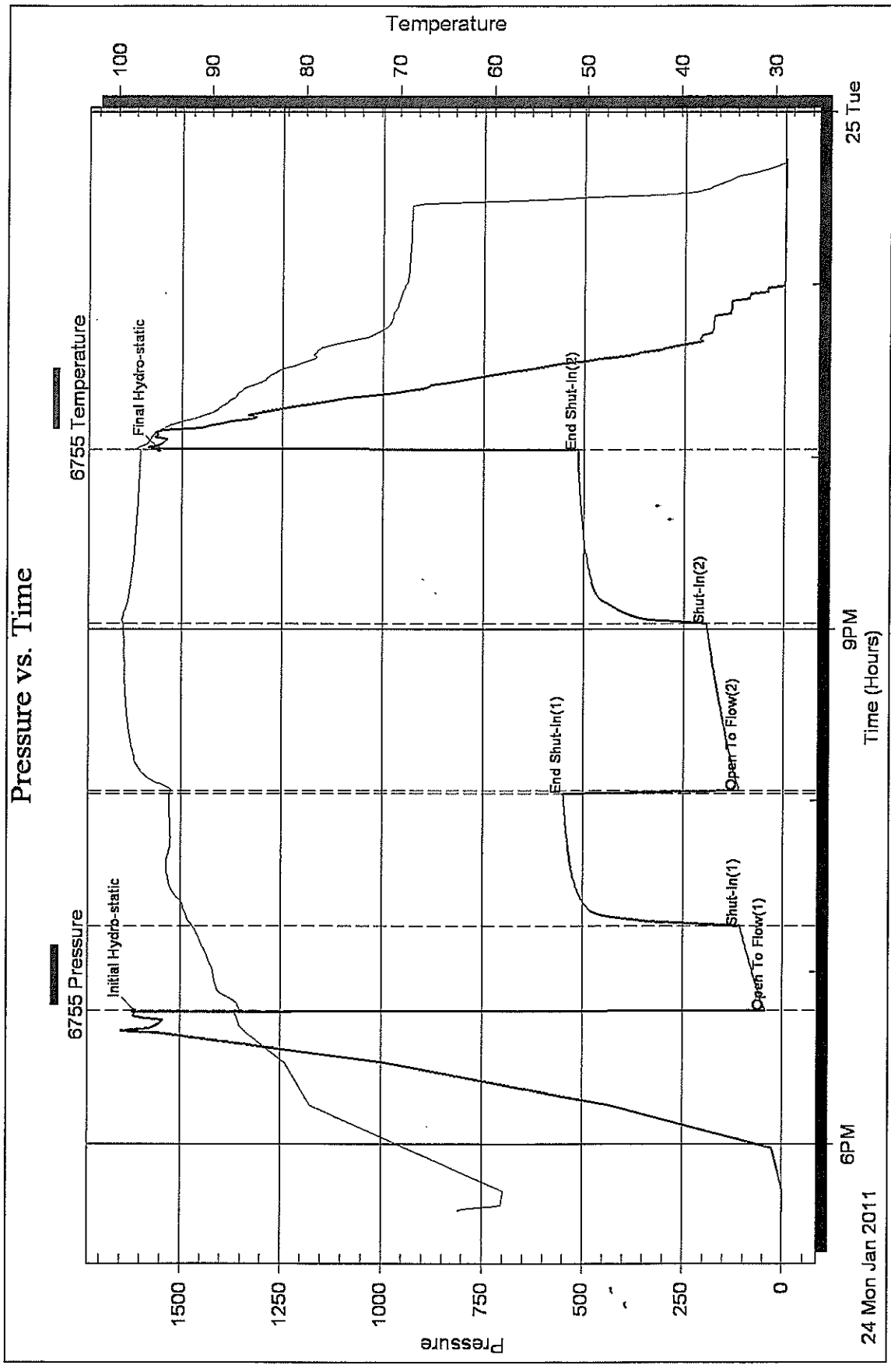
Length ft	Description	Volume bbl
5.00	Frothy OCMW-60%G-10%O-20%W-10%M	0.070
325.00	Muddy Water W/Oil Scum	4.559
0.00	210' Gas In Pipe	0.000

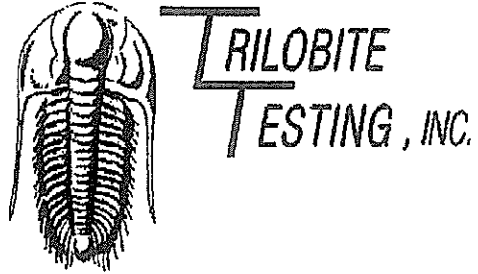
Total Length: 330.00 ft      Total Volume: 4.629 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: RW .125 @ 31F = 180000 chlorides





## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**  
PO box 8050  
Edmond, OK 73083

ATTN: Steve Murphy

**32-15s14w Russell KS**

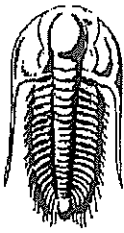
**Keil #2-32**

Start Date: 2011.01.25 @ 05:43:46

End Date: 2011.01.25 @ 10:27:31

Job Ticket #: 41295                      DST #: 3

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Russell Oil Inc.  
PO box 8050  
Edmond, OK 73083  
ATTN: Steve Murphy

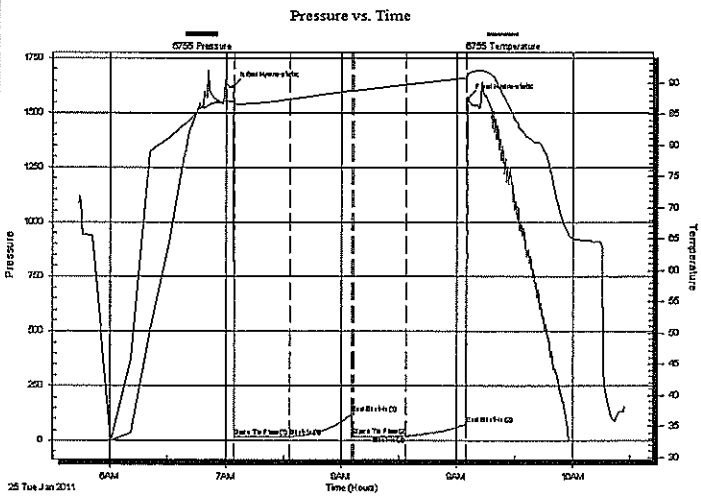
Keil #2-32  
32-15s14w Russell KS  
Job Ticket: 41295      DST#: 3  
Test Start: 2011.01.25 @ 05:43:46

## GENERAL INFORMATION:

Formation: G  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:04:01  
Time Test Ended: 10:27:31  
Interval: 3232.00 ft (KB) To 3245.00 ft (KB) (TVD)  
Total Depth: 3245.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Jason McLemore  
Unit No: 54  
Reference Elevations: 1931.00 ft (KB)  
1923.00 ft (CF)  
KB to GR/CF: 8.00 ft

Serial #: 6755 Inside  
Press@RunDepth: 20.23 psig @ 3233.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.01.25 End Date: 2011.01.25 Last Calib.: 2011.01.25  
Start Time: 05:43:48 End Time: 10:27:31 Time On Btm: 2011.01.25 @ 07:03:31  
Time Off Btm: 2011.01.25 @ 09:05:46

TEST COMMENT: FFP-Weak, Built to 1"  
ISI-Dead  
FFP-Intermittant Surface Blow  
FSI-Dead



## PRESSURE SUMMARY

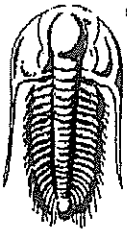
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1622.44	87.06	Initial Hydro-static
1	18.95	86.41	Open To Flow (1)
30	19.78	87.38	Shut-In(1)
62	123.38	88.78	End Shut-In(1)
63	22.01	88.71	Open To Flow (2)
91	20.23	89.74	Shut-In(2)
122	74.52	90.80	End Shut-In(2)
123	1568.97	91.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	OCM-10%O-90%M	0.28

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Russell Oil Inc.

**Keil #2-32**

PO box 8050  
Edmond, OK 73083

**32-15s14w Russell KS**

Job Ticket: 41295

DST#: 3

ATTN: Steve Murphy

Test Start: 2011.01.25 @ 05:43:46

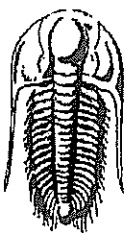
### Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
		<b>Total Volume:</b>	<b>45.39 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3232.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3205.00	
Shut In Tool	5.00			3210.00	
Hydraulic tool	5.00			3215.00	
Jars	5.00			3220.00	
Safety Joint	2.00			3222.00	
Packer	5.00			3227.00	28.00 Bottom Of Top Packer
Packer	5.00			3232.00	
Stubb	1.00			3233.00	
Recorder	0.00	6755	Inside	3233.00	
Recorder	0.00	8673	Outside	3233.00	
Perforations	9.00			3242.00	
Bullnose	3.00			3245.00	13.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Keil #2-32

PO box 8050  
Edmond, OK 73083

32-15s14w Russell KS

Job Ticket: 41295

DST#: 3

ATTN: Steve Murphy

Test Start: 2011.01.25 @ 05:43:46

## 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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.76 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 7100.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	OCM-10%O-90%M	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

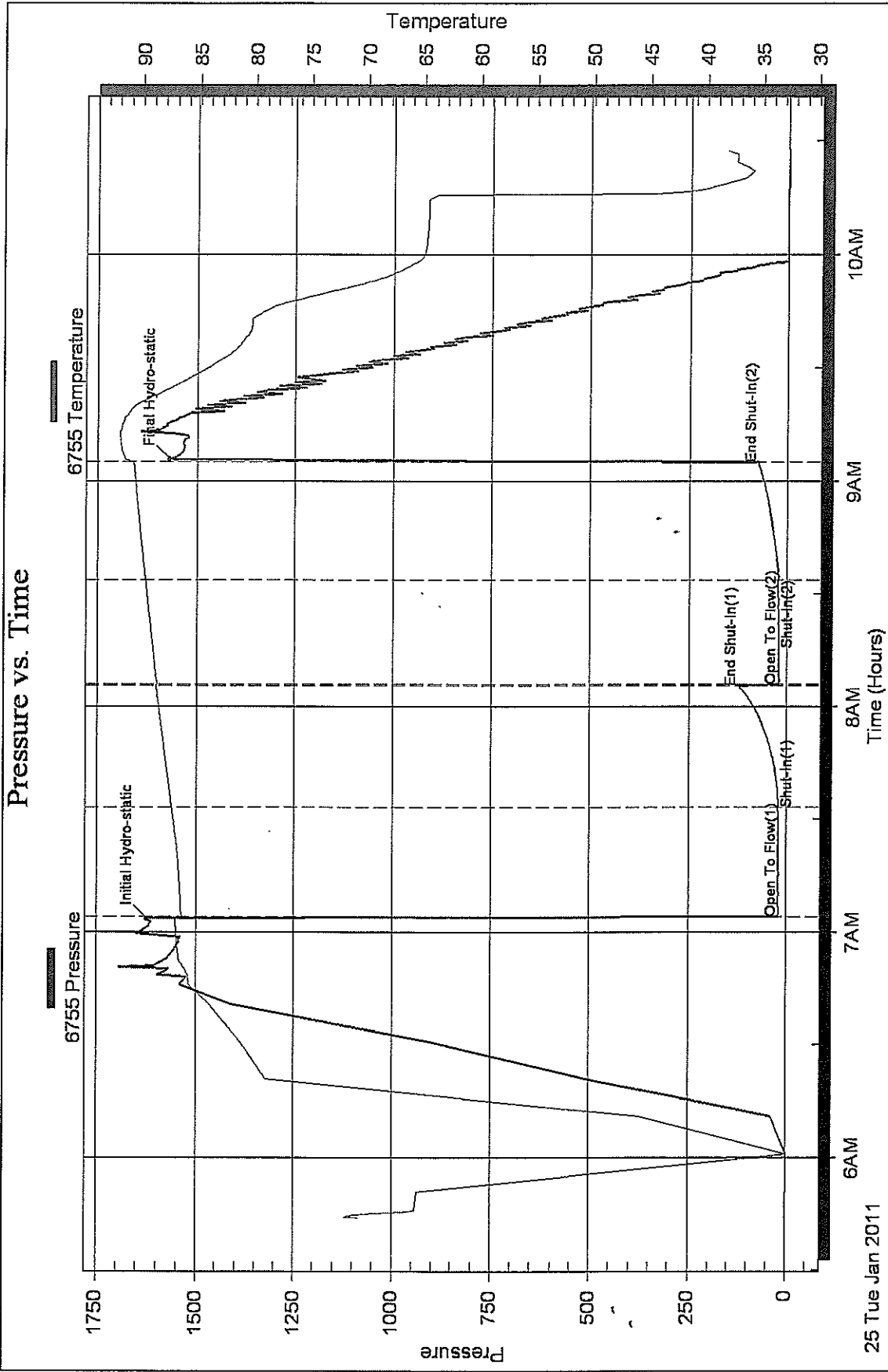
Num Gas Bombs: 0

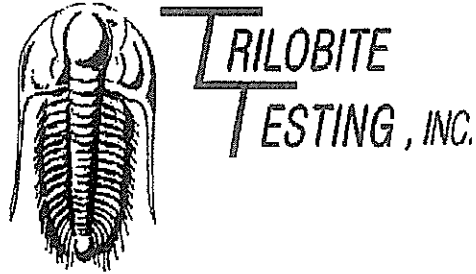
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Russell Oil Inc.**

PO box 8050  
Edmond,OK 73083

ATTN: Steve Murphy

**32-15s14w Russell KS**

**Keil #2-32**

Start Date: 2011.01.25 @ 22:09:23

End Date: 2011.01.26 @ 02:22:53

Job Ticket #: 41296                      DST #: 4

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Russell Oil Inc.

Keil #2-32

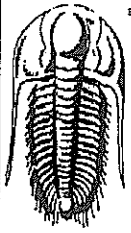
32-15s14w Russell KS

DST # 4

"j"

2011.01.25





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil Inc.  
PO box 8050  
Edmond, OK 73083  
ATTN: Steve Murphy

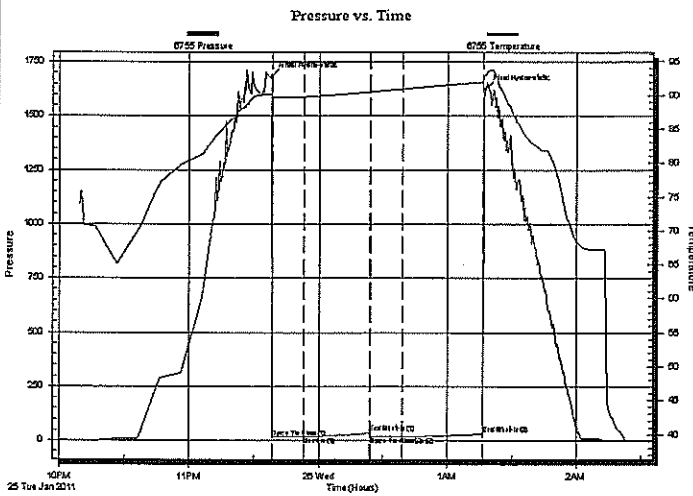
Keil #2-32  
32-15s14w Russell KS  
Job Ticket: 41296 DST#: 4  
Test Start: 2011.01.25 @ 22:09:23

## GENERAL INFORMATION:

Formation: "J"  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:38:23  
Time Test Ended: 02:22:53  
Interval: 3323.00 ft (KB) To 3335.00 ft (KB) (TVD)  
Total Depth: 3335.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Jason McLemore  
Unit No: 54  
Reference Elevations: 1931.00 ft (KB)  
1923.00 ft (CF)  
KB to GR/CF: 8.00 ft

Serial #: 6755 Inside  
Press@RunDepth: 16.50 psig @ 3324.00 ft (KB)  
Start Date: 2011.01.25 End Date: 2011.01.26  
Start Time: 22:09:25 End Time: 02:22:53  
Capacity: 8000.00 psig  
Last Calib.: 2011.01.26  
Time On Btm: 2011.01.25 @ 23:38:08  
Time Off Btm: 2011.01.26 @ 01:17:38

TEST COMMENT: IFP-Weak Blow ,Died in 5 Min.  
ISI-Dead  
FFP-Dead  
FSI-Dead



## PRESSURE SUMMARY

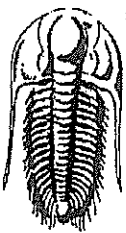
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1685.36	90.10	Initial Hydro-static
1	16.13	89.43	Open To Flow (1)
15	17.16	89.74	Shut-In(1)
46	34.87	90.46	End Shut-In(1)
46	15.94	90.45	Open To Flow (2)
61	16.50	90.91	Shut-In(2)
99	30.44	91.93	End Shut-In(2)
100	1625.38	92.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Drilling Mud	0.01

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

Russell Oil Inc.  
PO box 8050  
Edmond, OK 73083  
  
ATTN: Steve Murphy

**Keil #2-32**  
**32-15s14w Russell KS**  
Job Ticket: 41296      DST#: 4  
Test Start: 2011.01.25 @ 22:09:23

**Tool Information**

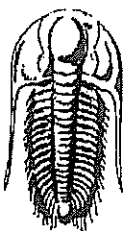
Drill Pipe:	Length: 3327.00 ft	Diameter: 3.80 inches	Volume: 46.67 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
		<b>Total Volume:</b>	<b>46.67 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3323.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 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			3296.00	
Shut In Tool	5.00			3301.00	
Hydraulic tool	5.00			3306.00	
Jars	5.00			3311.00	
Safety Joint	2.00			3313.00	
Packer	5.00			3318.00	28.00      Bottom Of Top Packer
Packer	5.00			3323.00	
Stubb	1.00			3324.00	
Recorder	0.00	6755	Inside	3324.00	
Recorder	0.00	8673	Outside	3324.00	
Perforations	8.00			3332.00	
Bullnose	3.00			3335.00	12.00      Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Keil #2-32

PO box 8050  
Edmond, OK 73083

32-15s14w Russell KS

Job Ticket: 41296

DST#: 4

ATTN: Steve Murphy

Test Start: 2011.01.25 @ 22:09:23

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6700.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Drilling Mud	0.014

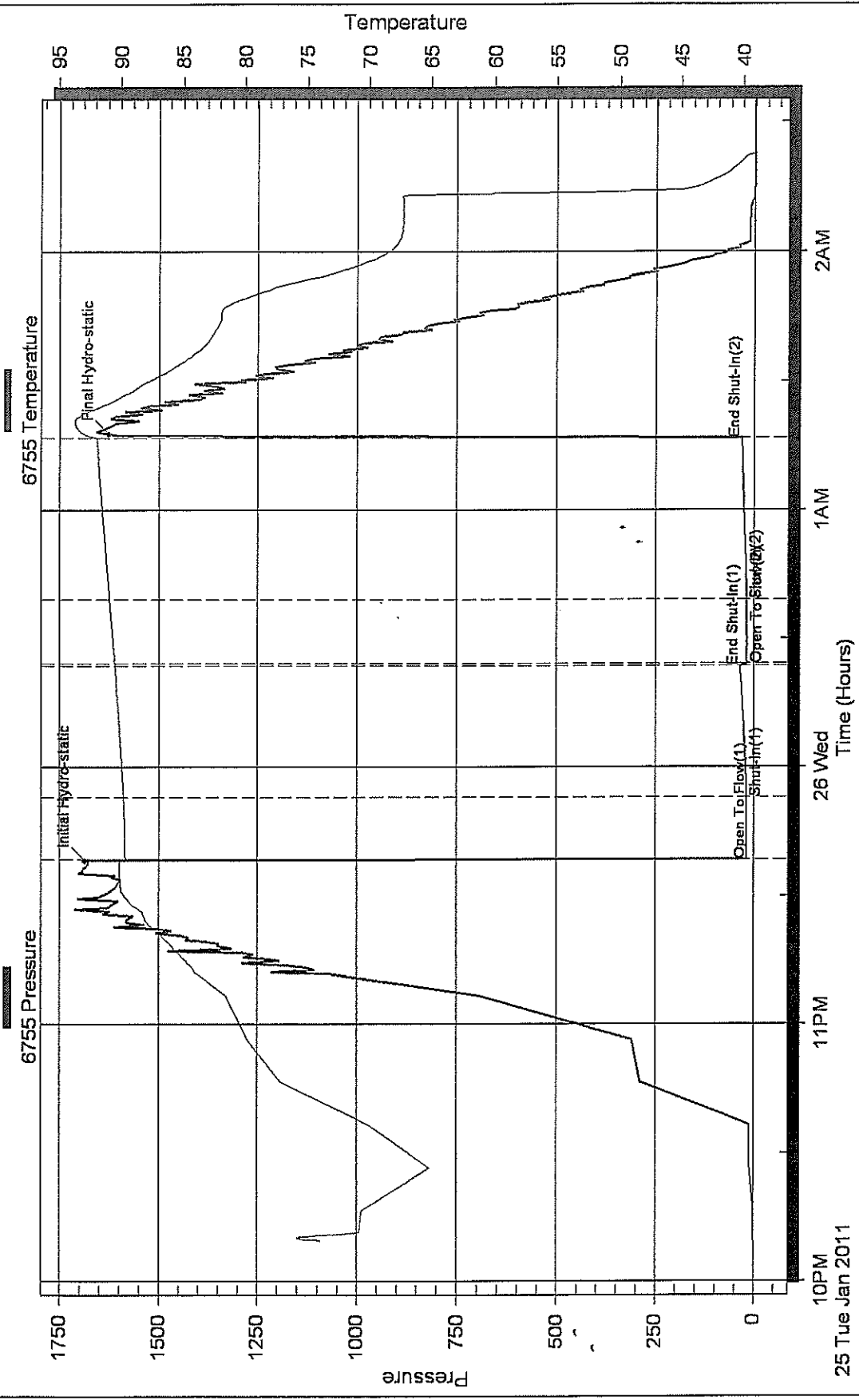
Total Length: 1.00 ft      Total Volume: 0.014 bbl

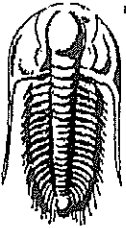
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Russell Oil Inc.  
PO box 8050  
Edmond, OK 73083  
ATTN: Steve Murphy

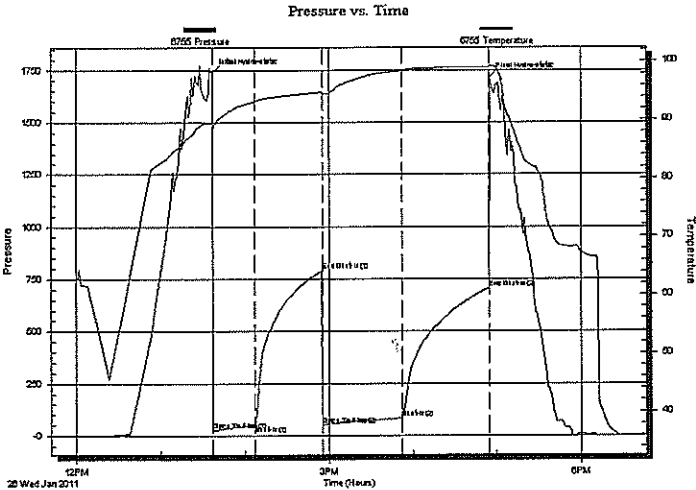
Keil #2-32  
32-15s14w Russell KS  
Job Ticket: 41297 DST#: 5  
Test Start: 2011.01.26 @ 12:01:39

## GENERAL INFORMATION:

Formation: Arbuckle  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:36:54  
Time Test Ended: 18:27:09  
Interval: 3390.00 ft (KB) To 3400.00 ft (KB) (TVD)  
Total Depth: 3400.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Jason McLemore  
Unit No: 54  
Reference Elevations: 1931.00 ft (KB)  
1923.00 ft (CF)  
KB to GR/CF: 8.00 ft

Serial #: 6755 Inside  
Press@RunDepth: 81.50 psig @ 3392.00 ft (KB)  
Start Date: 2011.01.26 End Date: 2011.01.26  
Start Time: 12:01:41 End Time: 18:27:09  
Capacity: 8000.00 psig  
Last Calib.: 2011.01.26  
Time On Btm: 2011.01.26 @ 13:36:39  
Time Off Btm: 2011.01.26 @ 16:55:09

TEST COMMENT: IFP-Good Blow ,BOB in 13 Min.  
ISF-Blow back Built to 1/2"  
FFP-Good Blow ,BOB in 26 Min.  
FSF-Blow back Built to 1/4"



## PRESSURE SUMMARY

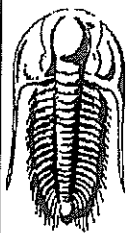
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1740.25	89.35	Initial Hydro-static
1	28.61	88.38	Open To Flow (1)
31	49.59	93.05	Shut-In(1)
79	790.01	94.75	End Shut-In(1)
79	53.16	94.25	Open To Flow (2)
135	81.50	98.36	Shut-In(2)
198	705.93	98.93	End Shut-In(2)
199	1717.82	99.23	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Clean Oil	2.10
20.00	HOCM-45%O-55%M	0.28
0.00	40' Gas In Pipe	0.00

## Gas Rates

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



**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Russell Oil Inc.  
PO box 8050  
Edmond, OK 73083  
  
ATTN: Steve Murphy

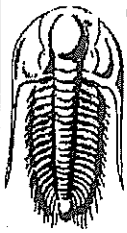
Keil #2-32  
32-15s14w Russell KS  
Job Ticket: 41297      DST#: 5  
Test Start: 2011.01.26 @ 12:01:39

**Tool Information**

Drill Pipe:	Length: 3395.00 ft	Diameter: 3.80 inches	Volume: 47.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<b>Total Volume: 47.62 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3390.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3363.00	
Shut In Tool	5.00			3368.00	
Hydraulic tool	5.00			3373.00	
Jars	5.00			3378.00	
Safety Joint	2.00			3380.00	
Packer	5.00			3385.00	28.00      Bottom Of Top Packer
Packer	5.00			3390.00	
Stubb	1.00			3391.00	
Perforations	1.00			3392.00	
Recorder	0.00	6755	Inside	3392.00	
Recorder	0.00	8673	Outside	3392.00	
Perforations	5.00			3397.00	
Bullnose	3.00			3400.00	10.00      Bottom Packers & Anchor

**Total Tool Length: 38.00**



**TRILOBITE**  
**TESTING, INC**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Russell Oil Inc.

Keil #2-32

PO box 8050  
Edmond, OK 73083

32-15s14w Russell KS

Job Ticket: 41297

DST#: 5

ATTN: Steve Murphy

Test Start: 2011.01.26 @ 12:01:39

## Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	30 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	47.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.76 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	7100.00 ppm				
Filter Cake:	inches				

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Clean Oil	2.104
20.00	HOCM-45%O-55%M	0.281
0.00	40' Gas In Pipe	0.000

Total Length: 170.00 ft      Total Volume: 2.385 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

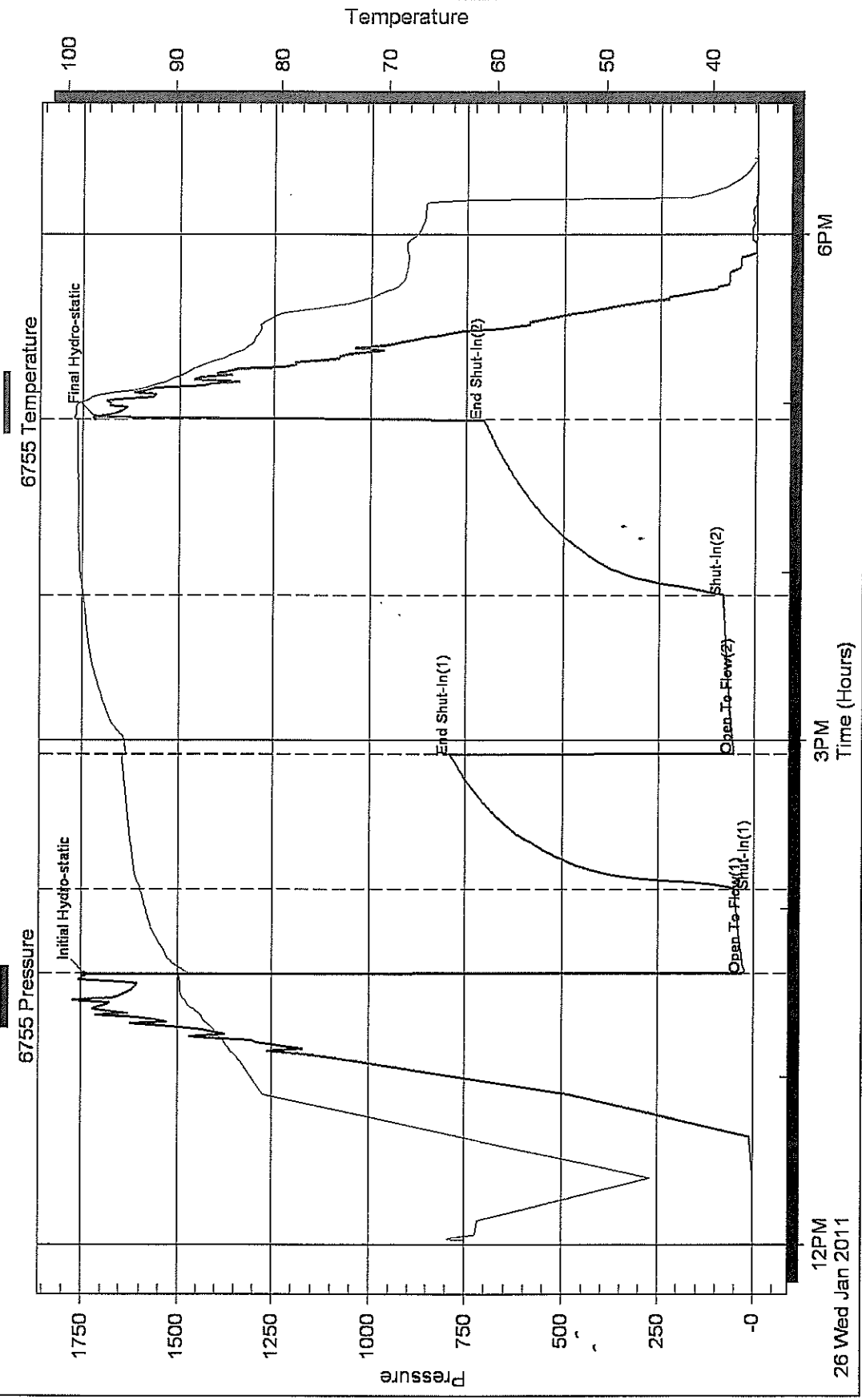
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



12PM  
26 Wed Jan 2011

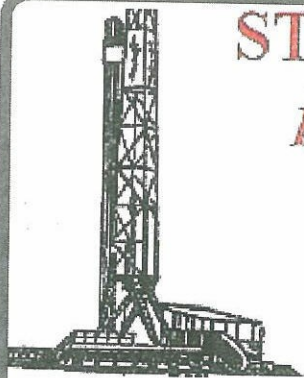
3PM  
Time (Hours)

6PM



# STEVEN P. MURPHY, P.G.

*Petroleum Geologist (KS #228)*



Cell 620.639.3030

Fax 785.387.2400

RR#1, Box 69  
Otis, Kansas 67565  
geomurphy@gbta.net

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Keil A #2-32

Location: Russell County

License Number: API #15-167-23,684-00-00

Spud Date: 11-19-11

Region: Kansas

Drilling Completed: 1-27-11

Surface Coordinates: 1650' FNL & 960' FEL (E/2 NW SE NE)

Section 32 - Township 15 South - Range 14 West

Bottom Hole Coordinates: Same as above (vertical hole, no significant deviation)

Ground Elevation (ft): 1921'

K.B. Elevation (ft): 1931

Logged Interval (ft): 2500' To: TD

Total Depth (ft): LTD-3500' RTD-3500'

Formation: Tarkio thru Arbuckle

Type of Drilling Fluid: Chemical (Mudco - Rick Hughes, Mud Engineer)

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: Russell Oil, Inc.

Address: P.O. Box 8050  
Edmond, OK 73083  
405-752-7600

## GEOLOGIST

Name: Steven P. Murphy, PG

Company: Consulting Petroleum Geologist (KS License #228)

Address: 3365 County Rd 390

Otis, KS 67565

Cell Phone No: 620-639-3030

## LogTops (Datum)

The open-hole logging was performed by Log-Tech(Hays, KS shop). Logs included Compensated Neutron/Compensated Density, Dual Induction, Sonic & Microlog.

Formation tops and datums from the open-hole logs include the following:

Top Anhydrite - 930 (+1001)

Tarkio - 2581 (-650)

Howard - 2777 (-846)

Topeka - 2850 (-919)

Heebner - 3080 (-1149)

Toronto - 3098 (-1167)

Lansing - 3142 (-1211)

BKC - 3380 (-1449)

Arbuckle - 3391(-1460)

DRILL STEM TESTS #1-3

The following drillstem tests were performed by Jason McLemore with Trilobite Testing from the Hays shop:

DST #1 - LKC "C" (3166-3175)

30:30:60:60

IF: BOB in 25 min, no return

FF: BOB in 45 min, no return

Recovery: 1' clean oil, 125' MW (90% W, 10% M)

IHP: 1582 FHP: 1563

IFP: 19-50

ISIP: 479

FFP: 53-89

FSIP: 485

BHT: 94 deg F

Chlorides: 200,000 ppm

DST #2 - LKC "D,E,F" (3178-3230)

30:45:60:60

IF: BOB in 7 min, 1/4" return after 14 min

FF: BOB in 14 min, return built to 3/4"

Recovery: 210' GIP, 5' frothy OCMW (60% G, 10% O, 10% M), 325' MW w/scum of oil.

IHP: 1613 FHP: 1556

IFP: 43-108

ISIP: 549

FFP: 112-193

FSIP: 513

BHT: 98 deg F

Chlorides: 180,000 ppm

DST #3 - LKC "G" (3232-3245)

30:30:30:30

IF: Weak 1" blow, no return

FF: No blow, no return

Recovery: 20' OCM (10% O, 90% M)

IHP: 1622 FHP: 1569

IFP: 19-20

ISIP: 123

FFP: 22-20

FSIP: 75

BHT: 91 deg F

DRILL STEM TESTS #4-6

DST #4 - LCK "J" (3323-3335)

15:30:15:30

IF: Weak blow died in 5min, no return

FF: No blow, no return

Recovery: 1' Mud

IHP: 1685 FHP: 1625

IFP: 16-17

ISIP: 35

FFP: 16-17

FSIP: 30

BHT: 92 deg F

DST #5 - Arbuckle 33388-3400)

30:45:60:60

IF: Good blow, BOB in 13 min, 1/2" return

FF: Good blow, BOB in 26 min, 1/4" return

Recovery: 150' Clean Oil (30 Gravity), 20' HOCM (45% O, 55% M)

IHP: 1740 FHP: 1718

IFP: 29-50

ISIP: 790

FFP: 53-82

FSIP: 706

BHT: 99 deg F

Oil Gravity: 30

COMMENTS

The Keil A#2-32 was drilled by Southwind Drilling Rig # (Tool pusher Frank Rome).

Based on positive results of drill-stem tests and sample & log analysis, it was recommended that casing be installed to produce oil from the Arbuckle Formation.

5-1/2", 15.5# casing was set 2' off bottom with

Based on log analysis, additional potential for production includes the "L" zone (3372-3374) and the "G" zone (3246-3254).

Respectfully submitted,

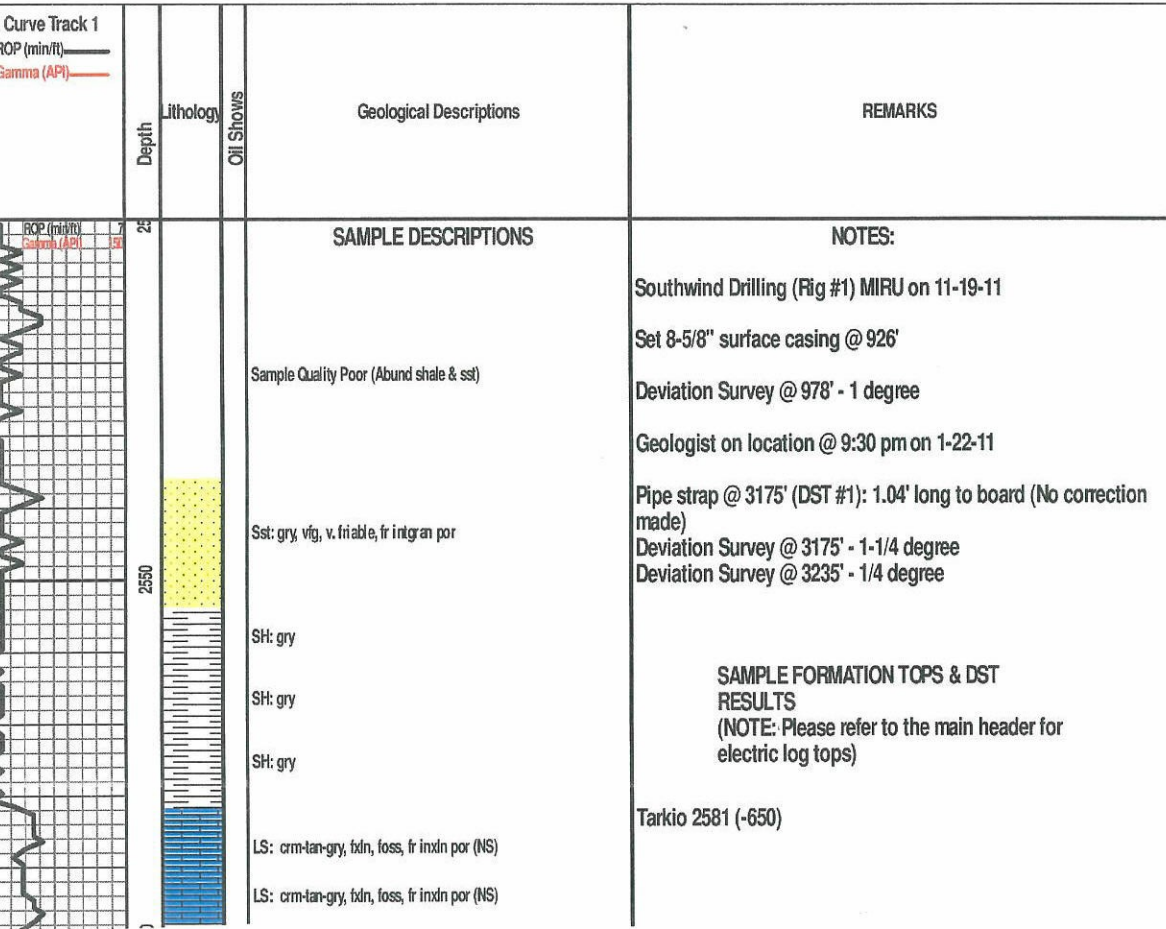
Steven P. Murphy, PG  
Consulting Petroleum Geologist  
(KS Licence #228)

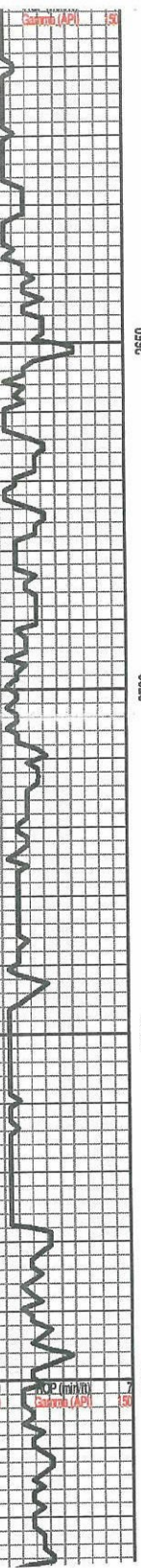
ROCK TYPES

Anhy	Coal	Lmst	Shcol
Bent	Congl	Meta	Shgy
Brec	Dol	Mrlst	Slst
Cht	Gyp	Salt	Ss
Clyst	Igne	Shale	Till

OTHER SYMBOLS

<b>OIL SHOW</b>	Dead	<b>INTERVAL</b>	<b>EVENT</b>
Even	Gas	Core	Conn
Spotted		Dst	Rft
Ques			Sidewall





Sst: gry, vf-gr, micaceous, v. friable (NS)  
 Sst: gry, vf-gr, micaceous, v. friable (NS)  
 Sst: gry, vf-gr, micaceous, v. friable (NS)  
 SH: gry  
 LS: crm-tan, vfxln, foss, dense (NS)  
 SH: gry  
 LS & SH: as above  
 LS & SH: as above  
 LS & SH: as above  
 LS: crm-tan-gry, vfxln, v. foss, dense (NS)  
 LS: crm-tan-gry, vfxln, v. foss, dense (NS)  
 LS: crm-tan-gry, vfxln, v. foss, dense (NS)  
 SH: gry-blk-red w/gry, vfg sst. (NS)  
 SH: gry-blk-red w/gry, vfg sst. (NS)  
 SH: gry-blk-red w/gry, vfg sst. (NS)  
 LS: tan, vfxln, foss, dense (NS)  
 SH: gry  
 LS: tan, vfxln, foss, dense (NS)  
 SH: gry  
 LS: tan-gry, vfxln, foss, dense (NS)

Howard 2776 (-845)

Topeka 2851 (-920)

SH: gry

LS: crm-tan-gry, vřdn, sl foss, sl chalky, dense (NS)

LS: crm-tan-gry, vřdn, sl foss, sl chalky, dense (NS)

LS: crm-tan-gry, vřdn, sl foss, sl chalky, dense (NS)

LS: crm-tan-gry, vřdn, sl foss, sl chalky, dense (NS)

LS: crm-tan-gry, řdn, fr inřn por, sl foss, chalky, shaley (NS)

LS: crm-tan-gry, řdn, fr inřn por, sl foss, chalky, shaley (NS)

SH: blk  
SH: gry-grn-blk

LS: wh-tan, vřdn, dense (NS)

LS: wh-tan, řvřdn, dense (NS)

LS: as above

SH: blk

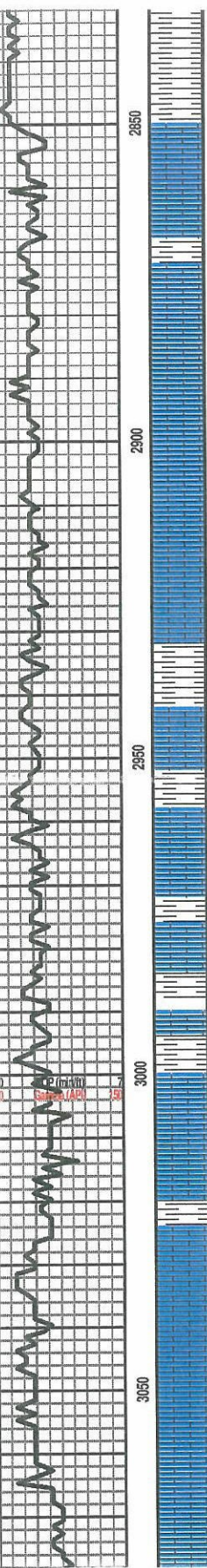
LS: crm-tan, vřdn, dense (NS)

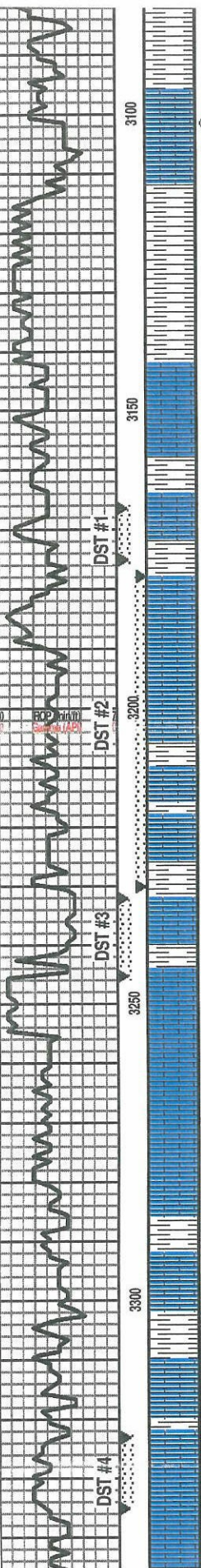
○ LS: crm-tan, řdn, fr inřn por, vřřřo, minor řtn, sl odor

○ LS: crm-tan, řdn, fr inřn por, vřřřo, minor řtn, sl odor

○ LS: crm-tan, řdn, fr inřn por, vřřřo, minor řtn, sl odor

LS: crm-brn, vřdn, dense (NS)





SH: gry-blk-grn-brn

LS: wh-tan, f-vfxn, mostly dense, tr free oil, minor stn, sl odor (rare gd vug por w/sso)

SH: gry, micaceous w/assoc gry siltstone

SH: gry, micaceous w/assoc gry siltstone

SH: gry, micaceous w/assoc gry siltstone

LS: wh-tan, vfxn, dense, tr vug por, vssfo, minor stn, fr odor

LS: crm-tan, fxdn, f-gd inxdn & vug por, fsfo, sat stn, str odor; (much dense tan LS in 50 min sample)

LS: wh-tan, fxdn, ool, mostly dense, rare fair vug por, sso, sat stn, fr odor

LS: wh-crm, fxdn, foss, fr vug por, fsfo, sat stn, str odor

LS: crm-tan, fxdn, oolic, gd oomold/vug por, fsfo, sat stn, str odor

LS: tan, vfxn, dense, tr fo, minor stn, fr odor

SH: gry-blk-brn

LS: crm-tan, fxdn, ool, fr-gd vug por, fsfo, sat stn, str odor

LS: wh-crm, fxdn, fr-gd inxdn & vug por, fsfo, gd stn, str odor

LS: crm-tan, vfxn, dense, tr fo, minor stn, sl odor

SH: gry-blk-grn

LS: wh-gry, fxdn, oolic, pr-fr moldic por, nsfo, tr stn, sl odor

LS: wh-gry, fxdn, oolic, pr-fr moldic por, nsfo, tr stn, sl odor

LS: as above w/associated fresh white chert

LS: wh-tan-gry, vfxn, dense (NS)

SH: gry-grn-brn

LS: wh-brn-gry, vfxn, dense, chalky (NS but slight odor)

LS: wh-gry, fxdn, foss, chalky, vssfo, fr stn, fr odor

LS: wh-gry, fxdn, ool, pr-fr inxdn por, sso, fr stn, fr odor

LS: wh-tan, fxdn, ool, pr-fr inxdn por, fsfo, fr stn, fr odor

LS: wh-tan, fxdn, ool, fr inxdn por, fsfo, sat stn, fr odor

LS: crm-tan, vfxn, dense (NS)

Toronto 3095 (-1164)

Douglas Sh 3114 (-1183)

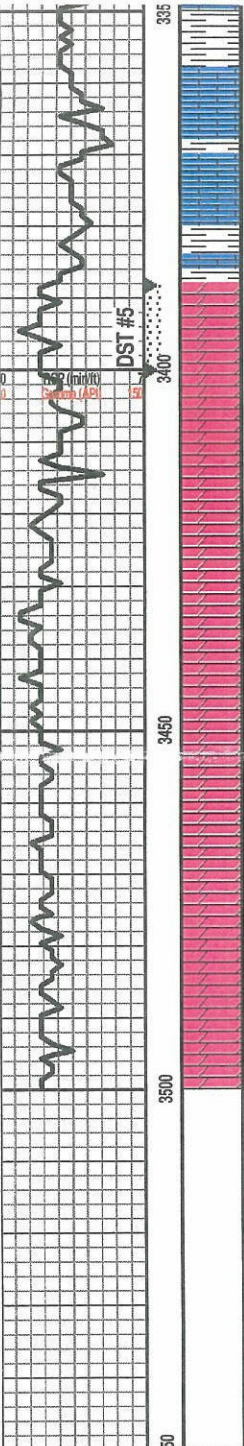
Lansing 3142 (-1211)

DST #1 - LKC "C" (3166-3175)  
 30:30:60:60  
 IF: BOB in 25 min, no return  
 FF: BOB in 45 min, no return  
 Recovery: 1' cl oil, 125' MW  
 IHP: 1582 FHP: 1563  
 IFF: 19-50  
 ISIP: 479  
 FFP: 53-89  
 FSIP: 485  
 BHT: 94 deg F  
 Chlorides: 200,000 ppm

DST #2 - LKC "D,E,F" (3178-3230)  
 30:45:60:60  
 IF: BOB in 7 min, 1/4" return after 14 min  
 FF: BOB in 14 min, return built to 3/4"  
 Recovery: 210' GIP, 5' frothy OCMW (80% G, 10% O, 10% M), 325' MW w/scum of oil.  
 IHP: 1613 FHP: 1566  
 IFF: 43-108  
 ISIP: 549  
 FFP: 112-193  
 FSIP: 513  
 BHT: 98 deg F  
 Chlorides: 180,000 ppm

DST #3 - LKC "G" (3232-3245)  
 30:30:30:30  
 IF: Weak 1" blow, no return  
 FF: No blow, no return  
 Recovery: 20' OCM (10% O, 90% M)  
 IHP: 1622 FHP: 1569  
 IFF: 19-20  
 ISIP: 123  
 FFP: 22-20  
 FSIP: 75  
 BHT: 91 deg F

DST #4 - LCK "J" (3323-3335)  
 15:30:15:30  
 IF: Weak blow died in XXXmin, no return  
 FF: No blow, no return  
 Recovery: 1' Mud  
 IHP: 1685 FHP: 1625  
 IFF: 16-17  
 ISIP: 35  
 FFP: 16-17  
 FSIP: 30  
 BHT: 92 deg F



SH: blk-gry-grm

LS: crm-gry, vhdn, dense (NS)

LS: wh-tan, fxdn, pr-fr imxdn por, vssfo, fr sin, sl odor

SH: red-gry-grm (wash red)

Dol: tan-brn, f-mxdn, gd vug por, gsfo, sat sin, str odor

Dol: tan-brn, mxdn (rhombic), gd imxdn & vug por, gsfo, sat sin, str odor

Dol: as above w/some tight-barren

Dol: as above w/assoc grn-turq Sh

Dol: as above (sucrosic texture w/rhombic)

Thin lense of Sst: cr, med-coarse, friable, poorly std, gsfo, str odor  
w/ abund Dol: as above w/pink, dense Dol

Dolomitic LS: wh, mostly dense, rare sst, minor sfo, sl sin, fr odor, mostly barren

Dol LS: wh-tan, dense, mostly barren, sso, fr odor

Dol LS: wh-tan, dense, mostly barren, sso, fr odor

Dol LS: wh-tan, dense, mostly barren, sso, fr odor

Dol LS: wh-tan, dense, mostly barren, sso, fr odor

RTD @ 3800'

LTD @ 3500'

DST #5 - Arbuckle 3388-3400)  
 30:45:60:60  
 IF: Good blow, BOB in 13 min, 1/2' return  
 FF: Good blow, BOB in 26 min, 1/4' return  
 Recovery: 150' Clean Oil (30 Gravity), 20' HOCM (45% O, 55% M)  
 IHP: 1740 FHP: 1718  
 IFP: 29-50  
 ISIP: 790  
 FFP: 53-82  
 FSIIP: 706  
 BHT: 99 deg F  
 Oil Gravity: 30

BKC 3381 (-1450)

Arbuckle 3388 (-1457)

5-1/2" casing (15.5#) set @ 3498'

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



phone: 316-337-6200  
fax: 316-337-6211  
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman  
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 09, 2011

LEROY HOLT  
Russell Oil, Inc.  
PO BOX 8050  
EDMOND, OK 73083

Re: ACO1  
API 15-167-23684-00-00  
Keil A 2-32  
NE/4 Sec.32-15S-14W  
Russell County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
LEROY HOLT