



KANSAS CORPORATION COMMISSION 1100280  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # 3293  
Name: Russell Oil, Inc.  
Address 1: PO BOX 8050  
Address 2: \_\_\_\_\_  
City: EDMOND State: OK Zip: 73083 + \_\_\_\_\_  
Contact Person: LEROY HOLT  
Phone: ( 405 ) 752-7600  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: KITT NOAH  
Purchaser: NA

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 #: \_\_\_\_\_

<u>6/13/2012</u>	<u>6/21/2012</u>	<u>6/22/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-195-22786-00-00  
Spot Description:  
S2 NW, NW, NW Sec. 10 Twp. 11 S. R. 23  East  West  
570 Feet from  North /  South Line of Section  
330 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Trego  
Lease Name: Bollig N Well #: 1-10  
Field Name: WAKEENEY  
Producing Formation: NA  
Elevation: Ground: 2269 Kelly Bushing: 2274  
Total Depth: 4020 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 263 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: 37000 ppm Fluid volume: 800 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: RUSSELL OIL INC  
Lease Name: BOLLIG D License #: 3293  
Quarter SE Sec. 25 Twp. 10 S. R. 23  East  West  
County: GRAHAM Permit #: 15-065-23548-00-00

**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: Deanna Garrison Date: 11/13/2012



1100280

Operator Name: Russell Oil, Inc. Lease Name: Bolig N Well #: 1-10  
 Sec. 10 Twp. 11 S. R. 23  East  West County: Trego

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Attached Top Attached Datum Attached
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CASING RECORD <input checked="" 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
SURFACE	12.25	8.58	23	263	COMMON	160	3%CC:2%GEL

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Bollig N 1-10
Doc ID	1100280

All Electric Logs Run

COMPUTER PROCESS INTERPRETATION
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISTIVITY

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Bollig N 1-10
Doc ID	1100280

Tops

ANHYDRITE	1753	+524
BASE ANHYDRITE	1795	+482
TOPEKA	3268	-991
HEEBNER	3490	-1213
TORONTO	3520	-1243
LANSING	3530	-1253
MUNCIE CREEK	3654	-1377
J ZONE	3708	-1431
BASE KC	3759	-1482
ARBUCKLE	3691	-1684
RTD	4020	-1743
LTD	4022	-1745

Phone 785-483-2025  
 1 785-324-1041

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

No. 030

Sec.	Twp.	Range	County	State	On Location	Finish
10	11	23	Trego	KS		11/15/90
Well No. 1-10		Location: <i>Wakarusa Well Field</i>				
Contractor: <i>S. J. ...</i>			Owner: <i>To Quality Oilwell Cementing, Inc.</i>			
Job: <i>S. J. ...</i>			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Size: <i>2 1/4</i>	T.D. <i>2165</i>		Charge To: <i>Wakarusa</i>			
<i>3 1/8</i>	Depth <i>2163</i>		Street			
Size	Depth		City State			
Amount Left in Csg. <i>15'</i>	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.			
Displace <i>15 3/4 BBL</i>	Cement Amount Ordered <i>15000 3 1/2 2 1/2</i>					
<b>EQUIPMENT</b>						
Operator <i>9</i>	No.	Cement Helper <i>Chas</i>	Common			
Trk	No.	Driver <i>Mark</i>	Poz. Mix			
Trk <i>14</i>	No.	Driver <i>Levy</i>	Gel.			
<b>JOB SERVICES &amp; REMARKS</b>						
Remarks:			Calcium			
Hole			Hulls			
Flow Seal			Salt			
Centralizers			Flowseal			
Mud			Kol-Seal			
Mud Port Collar			Mud CLR 48			
<i>2 1/2" sand</i>			CFL-117 or CD110 CAF 38			
<i>16000 Displace</i>			Sand			
<i>Cement Circulated</i>			Handling			
			Mileage			
<b>FLOAT EQUIPMENT</b>						
			Guide Shoe			
			Centralizer			
			Baskets <i>5 1/2</i>			
			AFU Inserts			
			Float Shoe			
			Latch Down			
			Pumptrk Charge			
			Mileage			
			Tax			
			Discount			
Signature: <i>[Signature]</i>			Total Charge			

Phone 785-483-2025  
 Fax 785-324-1041

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

No. 879

Date	6-22-12	Sec.	10	Twp.	11	Range	23	County	TREGO	State	KANSAS	On Location		Finish	8:30 AM
Case	BOLLIG N			Well No.	1-10			Location	WAKEENEY - 6 N - E - INTO						
Contractor	SOUTHWINDS # 10							Owner	RUSSELL OIL						
Job	R. PLUG							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.							
Plug Size	7 7/8		T.D.		4020'		Charge To								
Plug Size	4 1/2"		Depth		RUSSELL OIL										
Plug Size			Depth		Street PO BOX 8050										
Plug Size			Depth		City EDMOND				State OK, 73083						
Equipment Left in Csg.			Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.										
Gas Line			Displace		Cement Amount Ordered 230 @ 40' 4% GEL 4 FLO										

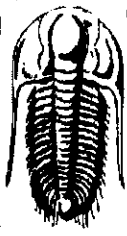
**EQUIPMENT**

Pumptrk #15 No.	Cementor	NICK	Common	138
	Helper			
Driver #10 No.	Driver	LEVY	Poz. Mix	92
Driver P/W No.	Driver	ALSO	Gel.	8

**JOB SERVICES & REMARKS**

Remarks:	Calcium
Hole	Hulls
Use Hole	Salt
Centralizers	Flowseal 5.0#
Baskets	Kol-Seal
Port Collar	Mud CLR 48
	CFL-117 or CD110 CAF 38
	Sand
ST@3936	25 SKS
ND@1767	25 SKS
PD@961	100 SKS
TH@310	40 SKS
TH@40	10 SKS
AT HOLE	30 SKS
HOUSE HOLE - NO HOLE	
	AFU Inserts
	Float Shoe
	Latch Down
	1 - 8 5/8 WOODEN PLUG
	Pumptrk Charge
	Mileage 46
THANK YOU!	
Nature	Went Puff
	Tax
	Discount
	Total Charge





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Russell Oil Inc  
 Po Box 8050  
 Edmond Ok 73083  
 ATTN: Leroy Holt

**10-11s-23w-Trego**  
**Bollig N 1-10**  
 Job Ticket: 47784      **DST#: 1**  
 Test Start: 2012.06.18 @ 11:21:23

## GENERAL INFORMATION:

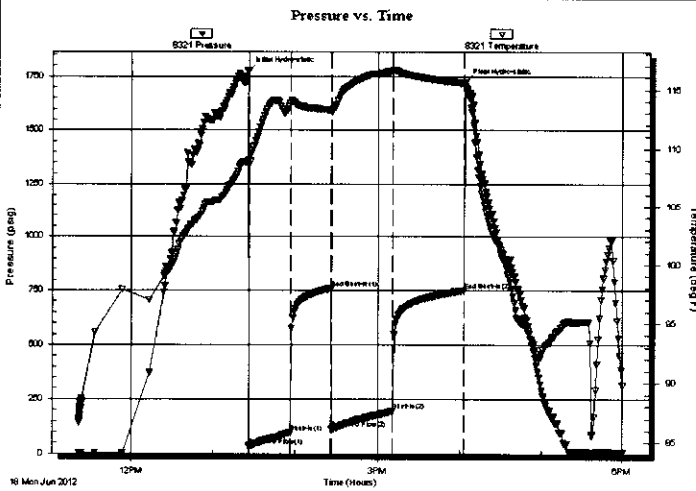
Formation: **LKC-E-F**  
 Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 13:25:53      Tester: Jeff Brown  
 Time Test Ended: 18:00:23      Unit No: 44  
 Interval: **3588.00 ft (KB) To 3618.00 ft (KB) (TVD)**      Reference Elevations: 2277.00 ft (KB)  
 Total Depth: 3618.00 ft (KB) (TVD)      2269.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 8.00 ft

## Serial #: 8321

Inside

Press@RunDepth: 194.95 psig @ 3591.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.06.18      End Date: 2012.06.18      Last Calib.: 2012.06.18  
 Start Time: 11:21:24      End Time: 18:00:23      Time On Btm: 2012.06.18 @ 13:25:23  
 Time Off Btm: 2012.06.18 @ 16:03:53

TEST COMMENT: IFP-Good blow BOB in 13 min  
 ISL-Weak surface back died out in 21 min  
 FFP-Good Blow BOB in 18 3/4 in  
 FSI-Dead no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.47	108.96	Initial Hydro-static
1	33.63	108.64	Open To Flow (1)
31	96.59	113.85	Shut-In(1)
61	759.64	113.31	End Shut-In(1)
61	111.21	113.16	Open To Flow (2)
106	194.95	116.58	Shut-In(2)
158	750.21	115.55	End Shut-In(2)
159	1720.47	115.30	Final Hydro-static

## Recovery

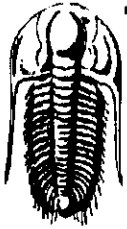
Length (ft)	Description	Volume (bbl)
248.00	MW 20%M 80%W	3.48
124.00	WM with oil spots 25%W 75%M	1.74
18.00	VSOCWM 2%O 8%W 90%M	0.25

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc  
Po Box 8050  
Edmond Ok 73083  
ATTN: Leroy Holt

**10-11s-23w-Trego**  
**Bollig N 1-10**  
Job Ticket: 47784      **DST#: 1**  
Test Start: 2012.06.18 @ 11:21:23

### 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1100.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

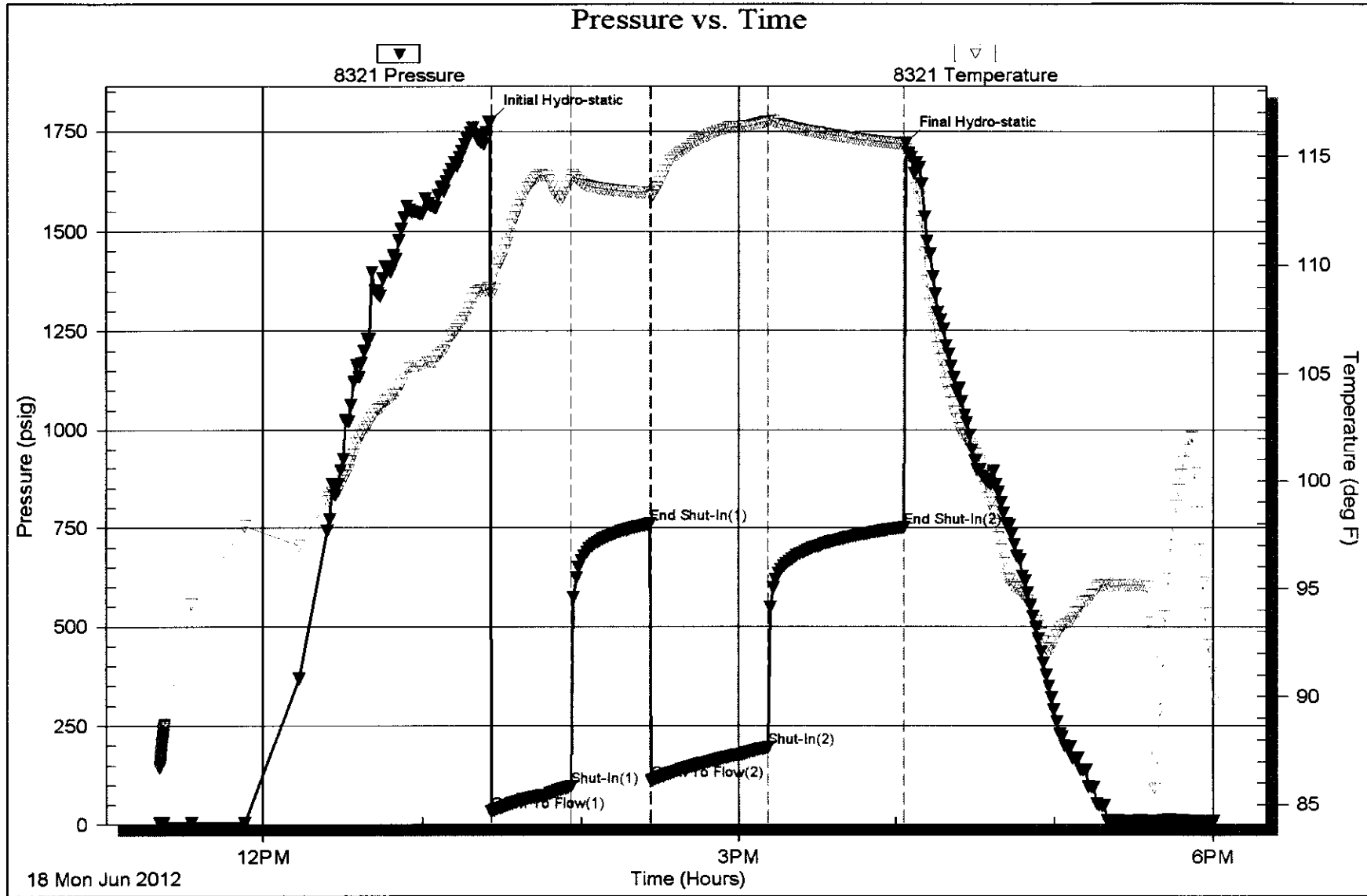
Length ft	Description	Volume bbl
248.00	MW 20%M 80%W	3.479
124.00	WM with oil spots 25%W 75%M	1.739
18.00	VSOCWM 2%O 8%W 90%M	0.252

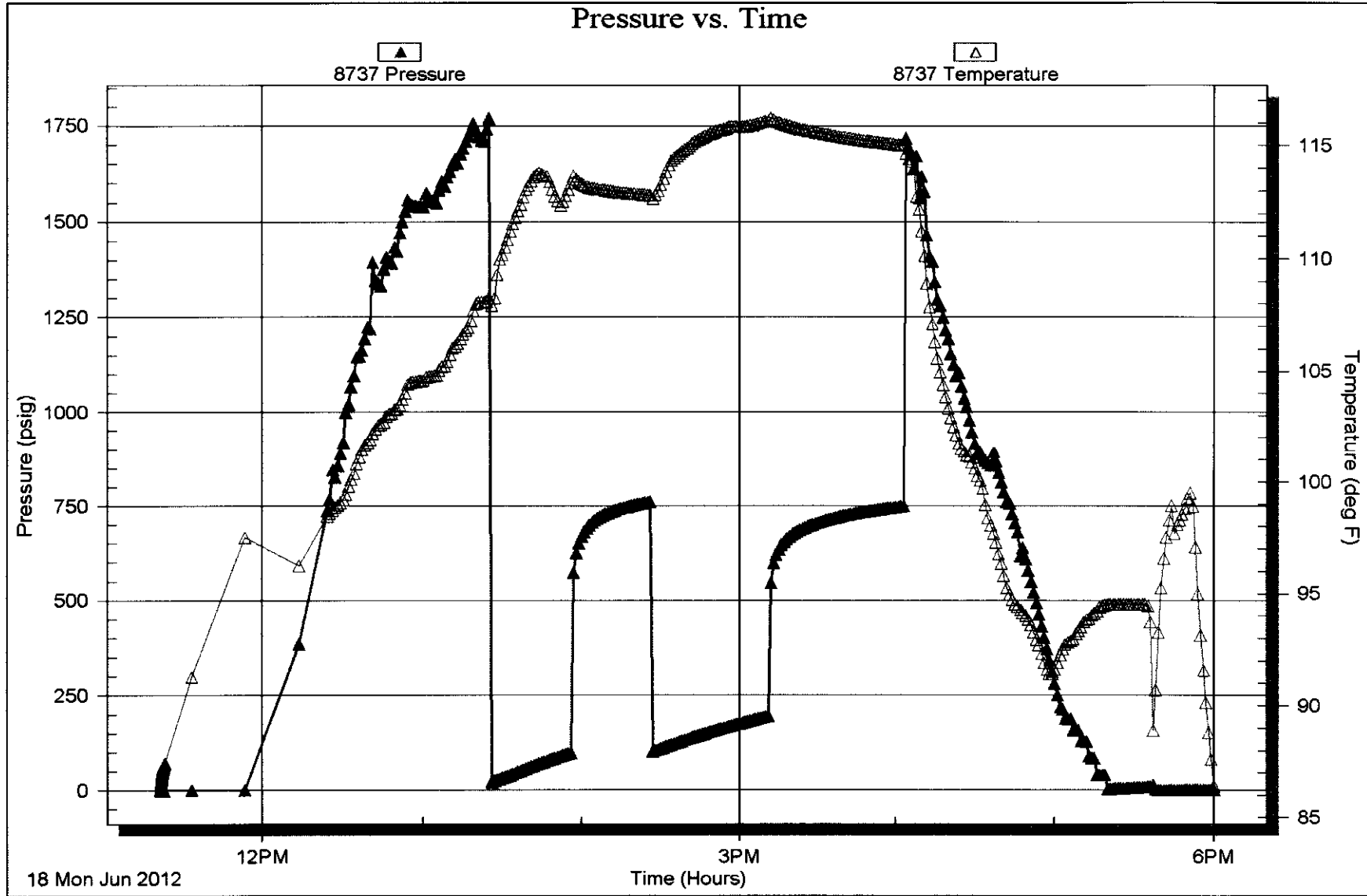
Total Length: 390.00 ft      Total Volume: 5.470 bbl

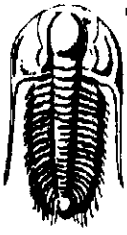
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Russell Oil Inc  
 Po Box 8050  
 Edmond Ok 73083  
 ATTN: Leroy Holt

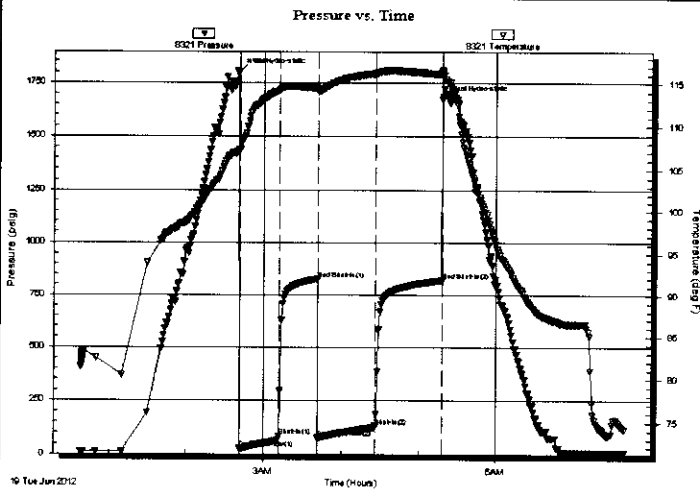
**10-11s-23w-Trego**  
**Bollig N 1-10**  
 Job Ticket: 47785 **DST#: 2**  
 Test Start: 2012.06.19 @ 00:38:07

### GENERAL INFORMATION:

Formation: **LKC-G**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:41:37  
 Time Test Ended: 07:39:37  
 Interval: **3618.00 ft (KB) To 3630.00 ft (KB) (TVD)**  
 Total Depth: 3630.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jeff Brown  
 Unit No: 44  
 Reference Elevations: 2277.00 ft (KB)  
 2269.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8321 Inside**  
 Press@RunDepth: 130.34 psig @ 3619.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.19 End Date: 2012.06.19 Last Calb.: 2012.06.19  
 Start Time: 00:38:08 End Time: 07:38:37 Time On Btm: 2012.06.19 @ 02:40:37  
 Time Off Btm: 2012.06.19 @ 05:18:07

**TEST COMMENT:** IFF-Good Blow BOB in 24 mins  
 ISF-Weak Surface Blow Back Built to 1/8 in  
 FFP-Good Blow BOB 21 mins  
 FSI-Weak Surface Blow Back Built to 1/2 in



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.71	107.34	Initial Hydro-static
1	25.54	107.29	Open To Flow (1)
31	85.15	114.24	Shut-In(1)
61	827.03	114.50	End Shut-In(1)
61	75.88	114.21	Open To Flow (2)
106	130.34	116.22	Shut-In(2)
157	818.77	116.16	End Shut-In(2)
158	1672.28	116.63	Final Hydro-static

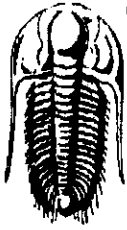
### Recovery

Length (ft)	Description	Volume (bbl)
124.00	MW With Oil Spots 10% M 90% W	1.74
107.00	WM With Oil Spots 10% W 90 % M	1.50
5.00	Gassy Oil 5% G 95% Oil	0.07
0.00	201-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  
Po Box 8050  
Edmond Ok 73083  
ATTN: Leroy Holt

**10-11s-23w-Trego**  
**Bollig N 1-10**  
Job Ticket: 47785      **DST#: 2**  
Test Start: 2012.06.19 @ 00:38:07

**Mud and Cushion Information**

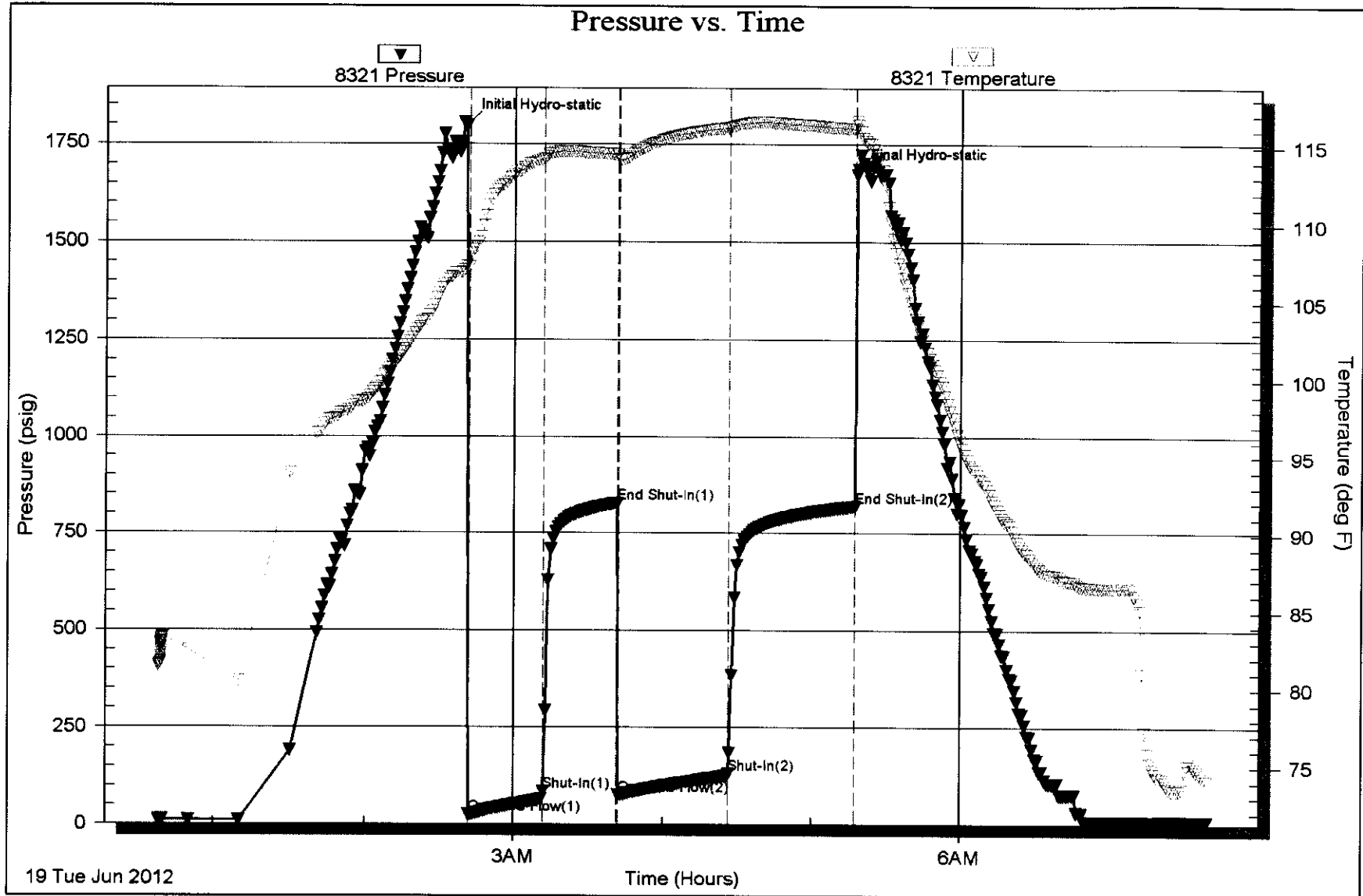
Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 50000 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 1100.00 ppm		
Filter Cake: inches		

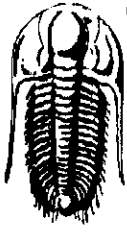
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
124.00	MW With Oil Spots 10% M 90% W	1.739
107.00	WM With Oil Spots 10% W 90 % M	1.501
5.00	Gassy Oil 5% G 95% Oil	0.070
0.00	201-GIP	0.000

Total Length: 236.00 ft      Total Volume: 3.310 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  
Po Box 8050  
Edmond Ok 73083  
ATTN: Leroy Holt

**10-11s-23w-Trego**  
**Bollig N 1-10**  
Job Ticket: 47786      **DST#: 3**  
Test Start: 2012.06.19 @ 21:49:34

### GENERAL INFORMATION:

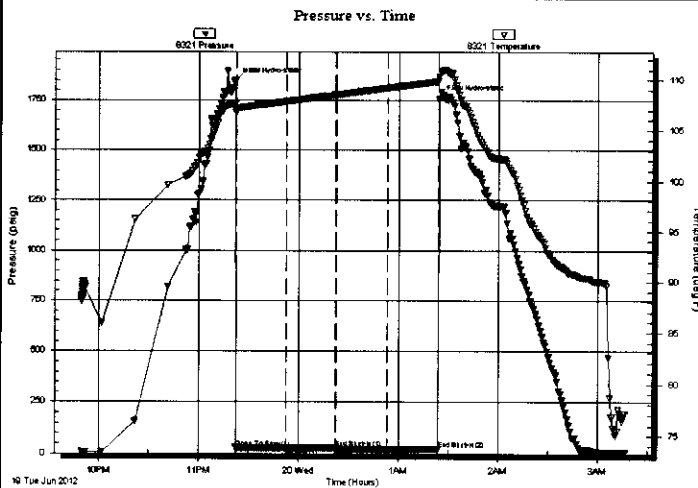
Formation: **LCK-I-J**  
Deviated: No Whipstock: ft (KB)      Test Type: Conventional Bottom Hole (Reset)  
Time Tool Opened: 23:22:04      Tester: Jeff Brown  
Time Test Ended: 03:16:04      Unit No: 44  
**Interval: 3675.00 ft (KB) To 3718.00 ft (KB) (TVD)**      Reference Elevations: 2277.00 ft (KB)  
Total Depth: 3718.00 ft (KB) (TVD)      2269.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good      KB to GR/CF: 8.00 ft

### Serial #: 8321

Inside

Press@RunDepth: 22.12 psig @ 3679.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.06.19      End Date: 2012.06.20      Last Calib.: 2012.06.20  
Start Time: 21:49:35      End Time: 03:16:04      Time On Btm: 2012.06.19 @ 23:21:34  
Time Off Btm: 2012.06.20 @ 01:24:04

**TEST COMMENT:** IFP-Weak Surface Blow Died Out 28 mins  
IS-Dead No Blow Back  
FFP-Dead Flushed Tool -Dead  
FSI-Dead no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.23	107.60	Initial Hydro-static
1	28.91	106.77	Open To Flow (1)
31	26.67	107.86	Shut-In(1)
60	29.36	108.53	End Shut-In(1)
61	24.99	108.54	Open To Flow (2)
91	22.12	109.22	Shut-In(2)
122	23.20	109.85	End Shut-In(2)
123	1757.56	110.31	Final Hydro-static

### Recovery

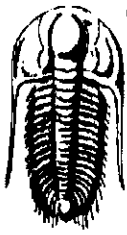
Length (ft)	Description	Volume (bbl)
1.00	Mud	0.01

\* 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  
Po Box 8050  
Edmond Ok 73083  
ATTN: Leroy Holt

**10-11s-23w-Trego**  
**Bollig N 1-10**  
Job Ticket: 47786      **DST#: 3**  
Test Start: 2012.06.19 @ 21:49:34

**Mud and Cushion Information**

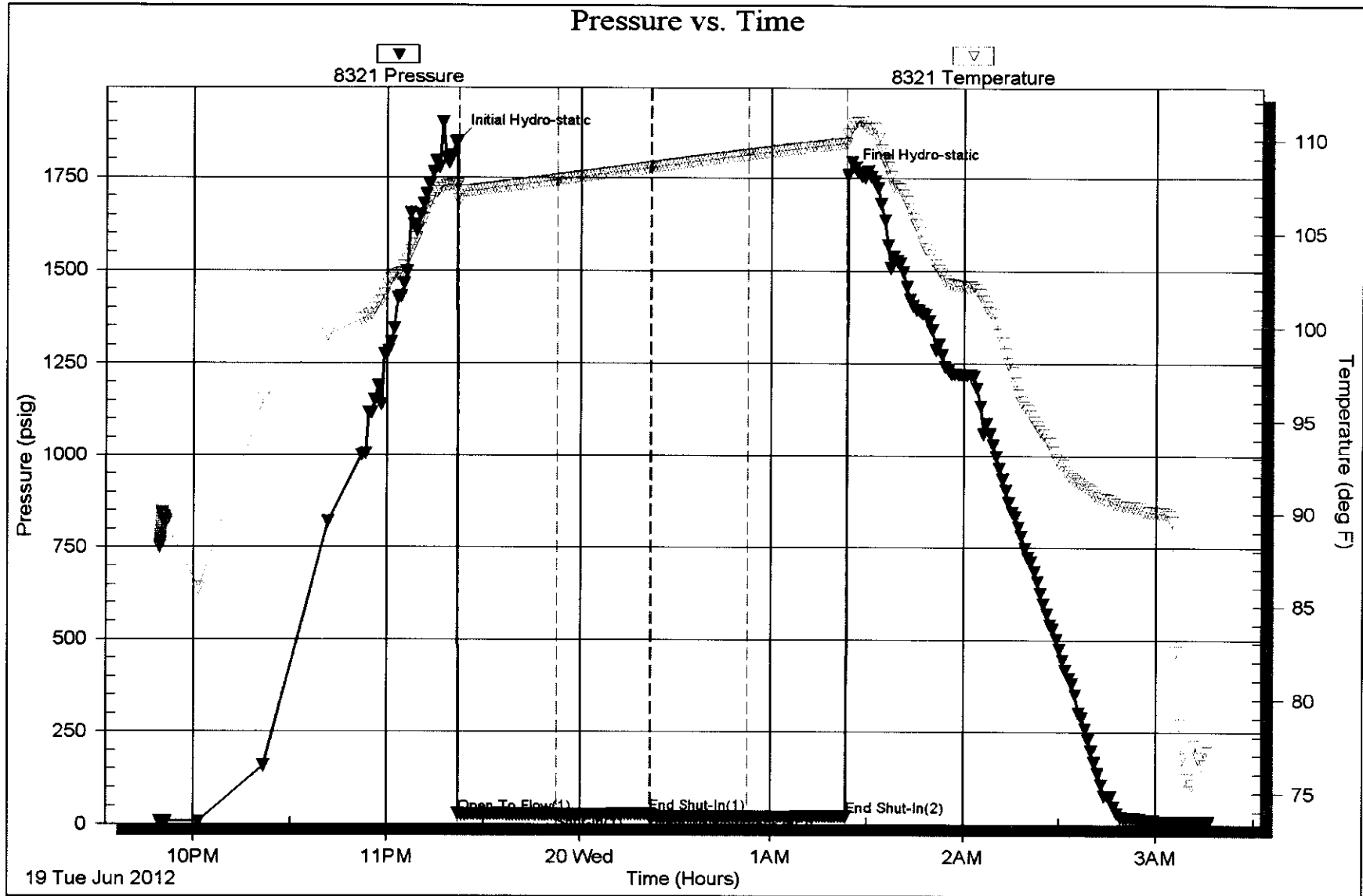
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1700.00 ppm			
Filter Cake: inches			

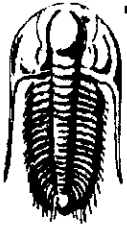
**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1.00	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:





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Russell Oil Inc  
 Po Box 8050  
 Edmond Ok 73083  
 ATTN: Leroy Holt

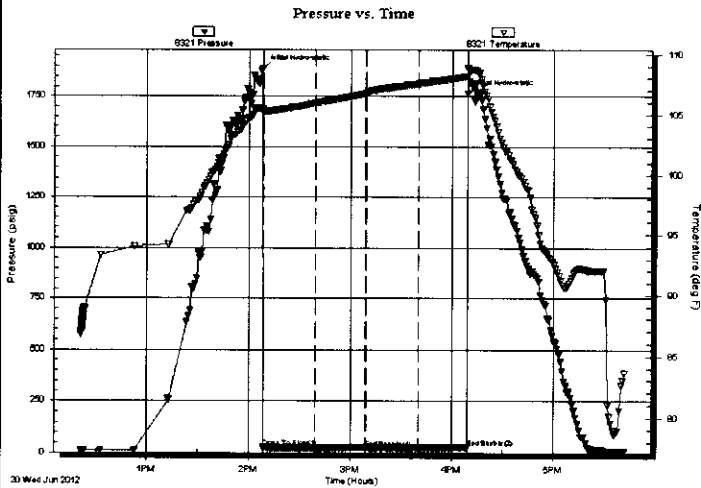
**10-11s-23w-Trego**  
**Bollig N 1-10**  
 Job Ticket: 47787      **DST#: 4**  
 Test Start: 2012.06.20 @ 12:20:41

## GENERAL INFORMATION:

Formation: **LKC-K-L**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 14:08:41 Tester: Jeff Brown/Tate Lang  
 Time Test Ended: 17:43:41 Unit No: 44  
 Interval: **3713.00 ft (KB) To 3750.00 ft (KB) (TVD)** Reference Elevations: 2277.00 ft (KB)  
 Total Depth: 3750.00 ft (KB) (TVD) 2269.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 8.00 ft

**Serial #: 8321 Inside**  
 Press@RunDepth: 26.50 psig @ 3718.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.06.20 End Date: 2012.06.20 Last Calib.: 2012.06.20  
 Start Time: 12:20:42 End Time: 17:42:41 Time On Btm: 2012.06.20 @ 14:08:11  
 Time Off Btm: 2012.06.20 @ 16:09:11

**TEST COMMENT:** IFP-Weak Surface Died Out 3 min  
 ISI-Dead No Blow Back  
 FFP-Dead Flush Tool Dead  
 FSI-Dead No Blow Back

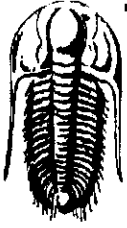


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1888.15	105.42	Initial Hydro-static
1	26.06	105.10	Open To Flow (1)
31	24.24	105.93	Shut-In(1)
61	24.22	106.72	End Shut-In(1)
61	27.36	106.73	Open To Flow (2)
92	26.50	107.56	Shut-In(2)
121	28.46	108.17	End Shut-In(2)
121	1764.26	108.90	Final Hydro-static

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

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc

**10-11s-23w-Trego**

Po Box 8050  
Edmond Ok 73083

**Bollig N 1-10**

Job Ticket: 47787

**DST#: 4**

ATTN: Leroy Holt

Test Start: 2012.06.20 @ 12:20:41

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 56.00 sec/qt

Water Loss: 6.79 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 1700.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	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:

