



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1199116  
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: \_\_\_\_\_

1199116

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 <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  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
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Ken Baker A 3-1
Doc ID	1199116

All Electric Logs Run

COMPUTER PROCESSED INTERPRETATION
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISTIVITY
SONIC BOND

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Ken Baker A 3-1
Doc ID	1199116

Tops

Name	Top	Datum
ANHYDRITE	2496	+692
BASE ANHYDRITE	2513	+675
TOPEKA	3804	-616
HEEBNER	3970	-792
TORONTO	3988	-800
LANSING	4018	-830
MUNCIE CREEK	4182	-994
STARK SHALE	4276	-1088
BASE KC	4363	-1175
MARMATON	4412	-1224
ALTAMONT A	4421	-1233
ALTAMONT B	4438	-1250
ALTAMONT C	4468	-1280
PAWNEE	4504	-1316
MYRICK STATION	4532	-1344
FT SCOTT	4553	-1365
CHEROKEE	4580	-1392
JOHNSON	4638	-1450
MISSISSIPPI	4746	-1558







265819

TICKET NUMBER 38197  
 LOCATION Oakley, KS  
 FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720  
 820-431-9210 or 800-457-8676

FIELD TICKET & TREATMENT REPORT  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-8-14	7043	Ken Baker "A" #2-1	3	16S	35W	Wichita
CUSTOMER <u>Russell O.I.</u>			Permit # <u>40</u>			
MAILING ADDRESS			2N			
CITY			1/2W			
STATE			5th			
ZIP CODE			2-14			
TRUCK #	DRIVER	TRUCK #	DRIVER			
399	Junkal					
400	Cody R					

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4200 CASING SIZE & WEIGHT \_\_\_\_\_  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.8 SLURRY VOL 1.4 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT \_\_\_\_\_ DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting trig up on H2 drilling rig #1 plus as ordered  
1st plug 50 SKS @ 25' 21"  
2nd plug 80 SKS @ 160'  
3rd plug 50 SKS @ 80'  
4th plug 50 SKS @ 360'  
5th plug 20 SKS @ 60' 300 SKS 60/40 gel 1/4" flo seal  
RH 30 SKS  
MH 20 SKS

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1395.00	1395.00
5406	35	MILEAGE	5.25	183.75
5407H	12.9 Tons	Ton Mileage delivery	1.75	790.30
1107	75 #	Flo seal	2.97	222.75
1118B	1032 #	Bentonite-gel	.27	278.64
1131	300 SKS	60/40 gel	158.6	4758.00
			Subtotal	7628.94
		1-SS 108	discount	762.84
			Subtotal	6865.60
			8.15	SALES TAX
				ESTIMATED TOTAL
				7251.38

completed

AUTHORIZATION Carlos Fabela TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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



**CONSOLIDATED**  
Oil Well Services, LLC

265675

TICKET NUMBER 38145

LOCATION Oakley, KS

FOREMAN Jerry Vaker

PO Box 884, Chanute, KS 66720  
620-431-8210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-27-14	7043	Ken Baker 3-1	3	169	35W	Wichita
CUSTOMER <u>Russell Oil</u>			Pence W 1023 N 3m 1/4 W 1/4 S W into			
MAILING ADDRESS <u>PO Box 8000</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY <u>Edmond</u> STATE <u>OK</u> ZIP CODE <u>73083</u>			<u>45607118</u>	<u>Don R</u>		
			<u>566</u>	<u>Michael R</u>		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 336 CASING SIZE & WEIGHT 8 7/8 23.2  
 CASING DEPTH 334 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT IN CASING 20'  
 DISPLACEMENT 20BBL DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on rig upon H2 #1 break circulation w/ rig tree, hook up to truck and air 235 sks com class A cement w/ 3% calcium chloride and 2% gel washed up & displaced with 20 bbl fresh water and shot in. Circulated approx 8 bbl to pit

Cement did circulate

Thank you

Jerry & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150.00	1150.00 ✓
5406	<del>60</del> 50	MILEAGE	5.2	260.00 ✓
5407A	11	for mileage delivery	7.25	962.50 ✓
1104s	2355 sks	com class A cement	18.55	4359.25 ✓
1102	663 #	calcium chloride	92	623.22 ✓
1186	442 #	gel	27	11934 ✓
			subtotal	7476.81 ✓
			less 10% disc	747.02 ✓
			subtotal	6729.79 ✓
			8.15 SALES TAX	374.22 ✓
			ESTIMATED TOTAL	7103.35 ✓

**completed**

AUTHORIZATION Carlus Fabula

TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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









**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

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

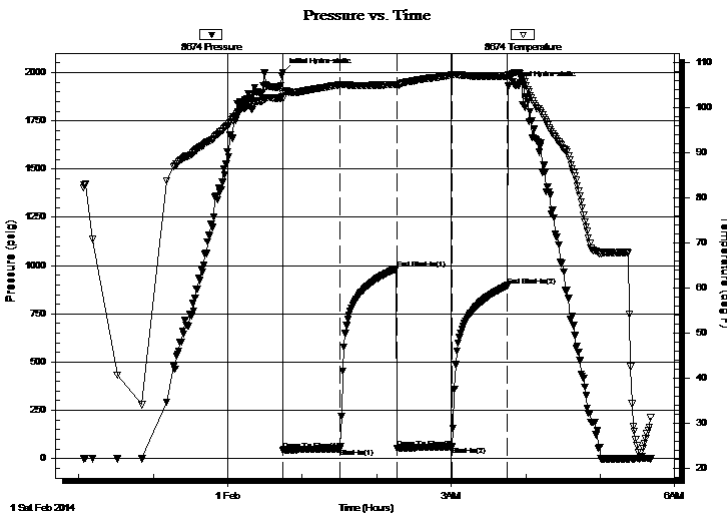
**3-16s-35w Wichita Co. KS**  
**Ken Baker A # 3-1**  
Job Ticket: 50248 **DST#: 1**  
Test Start: 2014.01.31 @ 22:04:00

## GENERAL INFORMATION:

Formation: **LKC " C "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 00:44:40  
Time Test Ended: 05:40:39  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Will MacLean  
Unit No: 72  
Interval: **4042.00 ft (KB) To 4062.00 ft (KB) (TVD)**  
Reference Elevations: 3188.00 ft (KB)  
Total Depth: 4062.00 ft (KB) (TVD) 3177.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 8674 Inside**  
Press@RunDepth: 61.52 psig @ 4043.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.01.31 End Date: 2014.02.01 Last Calib.: 2014.02.01  
Start Time: 22:04:00 End Time: 05:40:39 Time On Btm: 2014.02.01 @ 00:44:25  
Time Off Btm: 2014.02.01 @ 03:46:09

**TEST COMMENT:** IF- Chased Tool 5' to Bottom 2" Blow Died back to 1" then Built to 1 1/4"  
IS- No Blow  
FF- No Blow  
FS- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2000.73	103.04	Initial Hydro-static
1	43.40	102.12	Open To Flow (1)
46	50.77	105.08	Shut-In(1)
92	983.36	105.08	End Shut-In(1)
92	53.65	104.82	Open To Flow (2)
136	61.52	107.20	Shut-In(2)
181	896.45	107.02	End Shut-In(2)
182	1931.62	107.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
92.00	WCM 46%w 54%m with Oil Spots	0.45

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Russell Oil Inc.

**3-16s-35w Wichita Co. KS**

P.o Box 8050  
Edmond OK. 73083

**Ken Baker A # 3-1**

Job Ticket: 50248

**DST#: 1**

ATTN: Kitt Noah

Test Start: 2014.01.31 @ 22:04:00

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
92.00	WCM 46%w 54%m with Oil Spots	0.452

Total Length: 92.00 ft      Total Volume: 0.452 bbl

Num Fluid Samples: 0

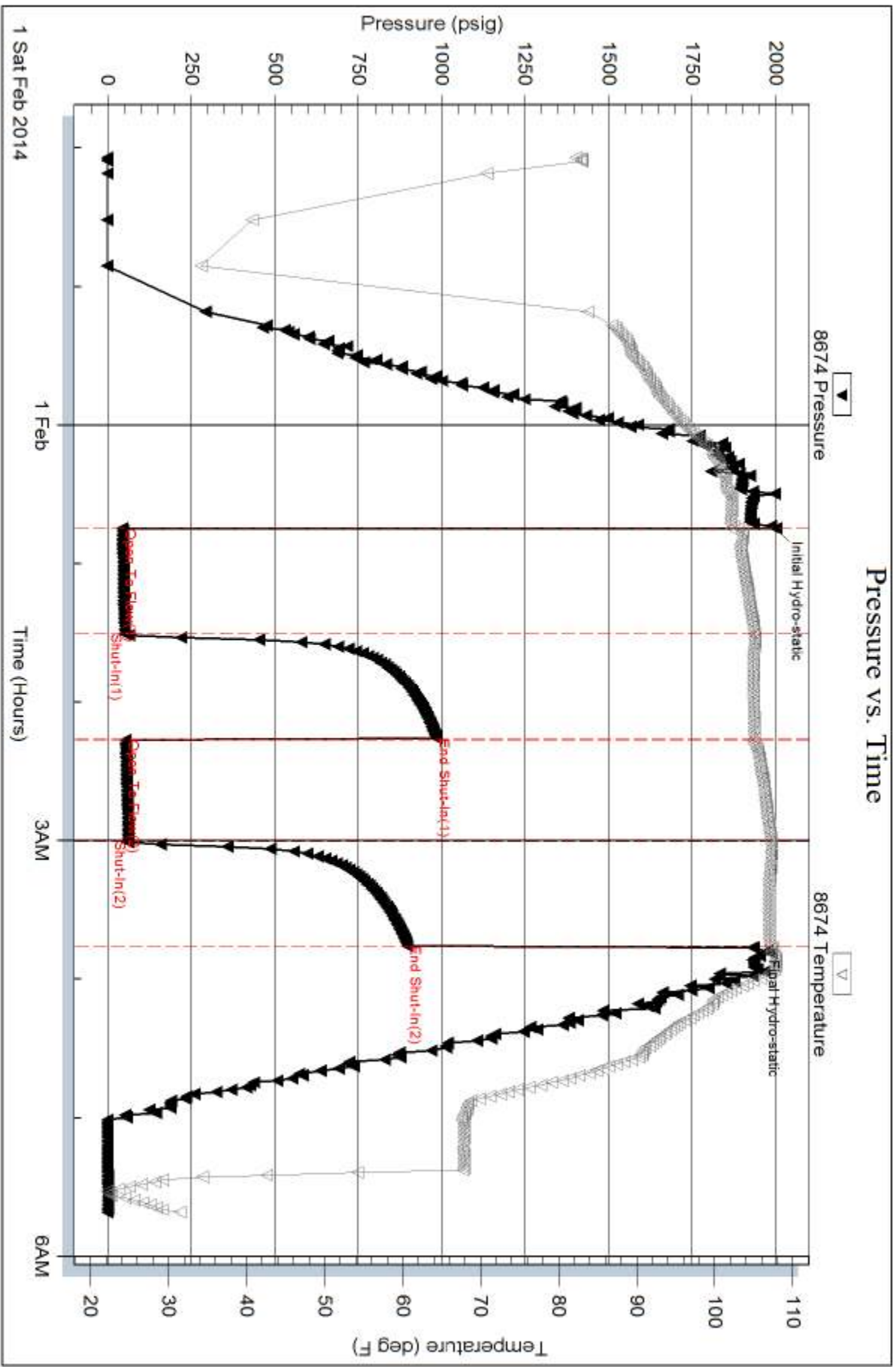
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**3-16s-35w Wichita Co. KS**  
**Ken Baker A # 3-1**  
Job Ticket: 50249 **DST#: 2**  
Test Start: 2014.02.02 @ 00:08:00

## GENERAL INFORMATION:

Formation: **LKC " H "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 02:07:25  
Time Test Ended: 07:07:54  
Interval: **4177.00 ft (KB) To 4220.00 ft (KB) (TVD)**  
Total Depth: 4220.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Will MacLean  
Unit No: 72  
Reference Elevations: 3188.00 ft (KB)  
3177.00 ft (CF)  
KB to GR/CF: 11.00 ft

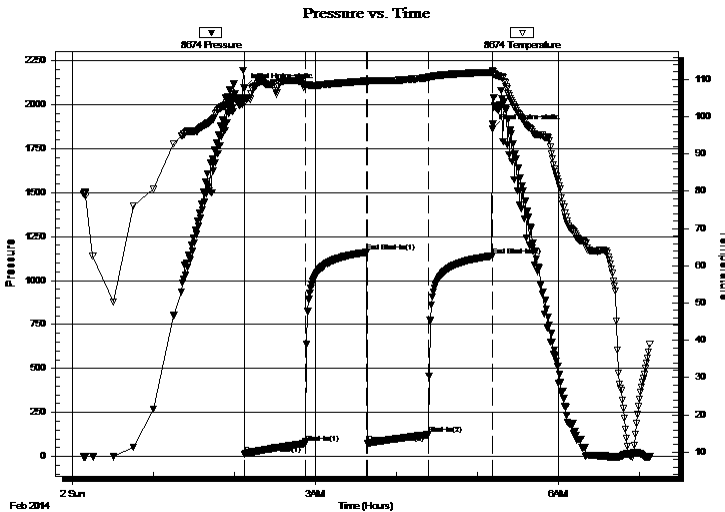
## Serial #: 8674

Inside

Press @ Run Depth: 125.13 psig @ 4178.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.02.02 End Date: 2014.02.02 Last Calib.: 2014.02.02  
Start Time: 00:08:00 End Time: 07:07:54 Time On Btm: 2014.02.02 @ 02:07:10  
Time Off Btm: 2014.02.02 @ 05:10:54

TEST COMMENT: IF- Weak Surface Blow Built to 4 3/4"  
IS- No Blow  
FF- Weak Surface Blow Built to 1 1/4"  
FS- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2094.65	105.19	Initial Hydro-static
1	13.36	103.85	Open To Flow (1)
46	73.89	108.38	Shut-In(1)
91	1160.62	109.58	End Shut-In(1)
92	76.61	109.43	Open To Flow (2)
137	125.13	110.46	Shut-In(2)
184	1139.79	111.90	End Shut-In(2)
184	1861.38	112.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
92.00	MCW 44%m 56%w	0.45
92.00	MCW 32%m 68%w	0.45
15.00	WCM 18%w 82%m with a Few Oil Sp	0.07

\* 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.

**3-16s-35w Wichita Co. KS**

P.o Box 8050  
Edmond OK. 73083

**Ken Baker A # 3-1**

Job Ticket: 50249

**DST#: 2**

ATTN: Kitt Noah

Test Start: 2014.02.02 @ 00:08:00

## 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
92.00	MCW 44%m 56%w	0.452
92.00	MCW 32%m 68%w	0.452
15.00	WCM 18%w 82%m with a Few Oil Spots	0.074

Total Length: 199.00 ft

Total Volume: 0.978 bbl

Num Fluid Samples: 0

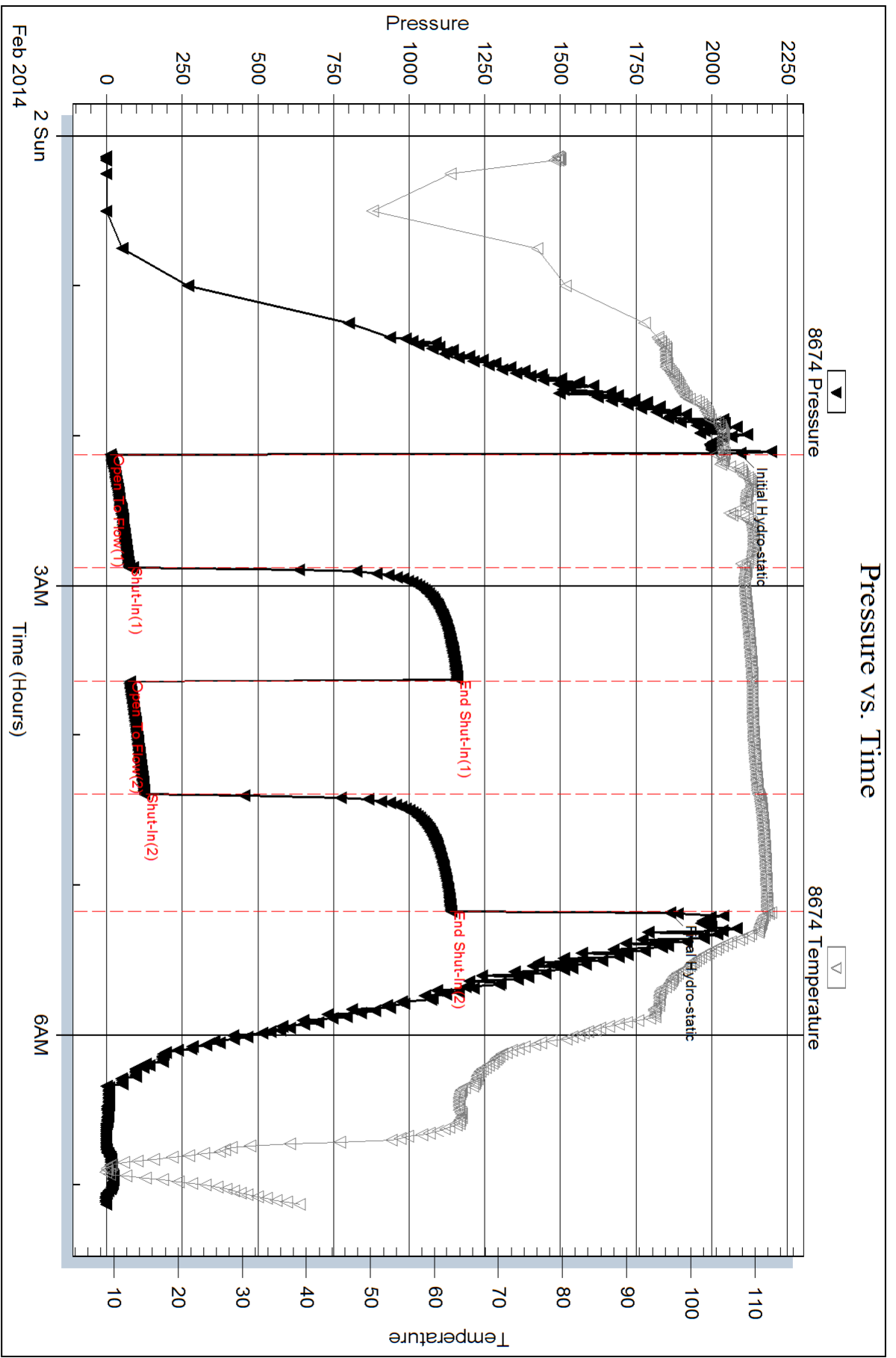
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**3-16s-35w Wichita Co. KS**  
**Ken Baker A # 3-1**  
Job Ticket: 50250 **DST#: 3**  
Test Start: 2014.02.02 @ 19:58:00

## GENERAL INFORMATION:

Formation: **LKC " J "**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:08:55  
Time Test Ended: 02:43:09  
Interval: **4239.00 ft (KB) To 4273.00 ft (KB) (TVD)**  
Total Depth: 4273.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Will MacLean  
Unit No: 72  
Reference Elevations: 3188.00 ft (KB)  
3177.00 ft (CF)  
KB to GR/CF: 11.00 ft

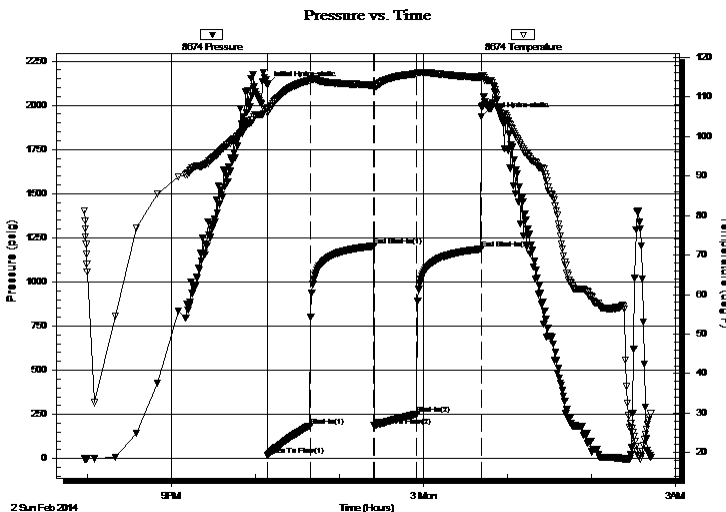
## Serial #: 8674

Inside

Press @ Run Depth: 252.82 psig @ 4240.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.02.02 End Date: 2014.02.03 Last Calib.: 2014.02.03  
Start Time: 19:58:00 End Time: 02:43:09 Time On Btm: 2014.02.02 @ 22:08:40  
Time Off Btm: 2014.02.03 @ 00:41:39

TEST COMMENT: IF- Weak Surface Blow Built to BOB in 19 1/4min  
IS- No Blow  
FF- Weak Surface Blow Built to BOB in 26min  
FS- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.81	107.10	Initial Hydro-static
1	18.02	105.99	Open To Flow (1)
31	182.95	114.16	Shut-In(1)
76	1202.88	112.95	End Shut-In(1)
77	186.25	112.47	Open To Flow (2)
107	252.82	115.82	Shut-In(2)
153	1186.74	114.88	End Shut-In(2)
153	1936.49	115.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
276.00	MCW 17%m 83%w with Few Oil Spots	1.36
186.00	MCW 30%m 70%w	1.79
74.00	MCW 39%m 61%w	1.04

## 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.

**3-16s-35w Wichita Co. KS**

P.o Box 8050  
Edmond OK. 73083

**Ken Baker A # 3-1**

Job Ticket: 50250

**DST#: 3**

ATTN: Kitt Noah

Test Start: 2014.02.02 @ 19:58:00

## 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:

32000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
276.00	MCW 17%m 83%w with Few Oil Spots in T	1.357
186.00	MCW 30%m 70%w	1.789
74.00	MCW 39%m 61%w	1.038

Total Length: 536.00 ft      Total Volume: 4.184 bbl

Num Fluid Samples: 0

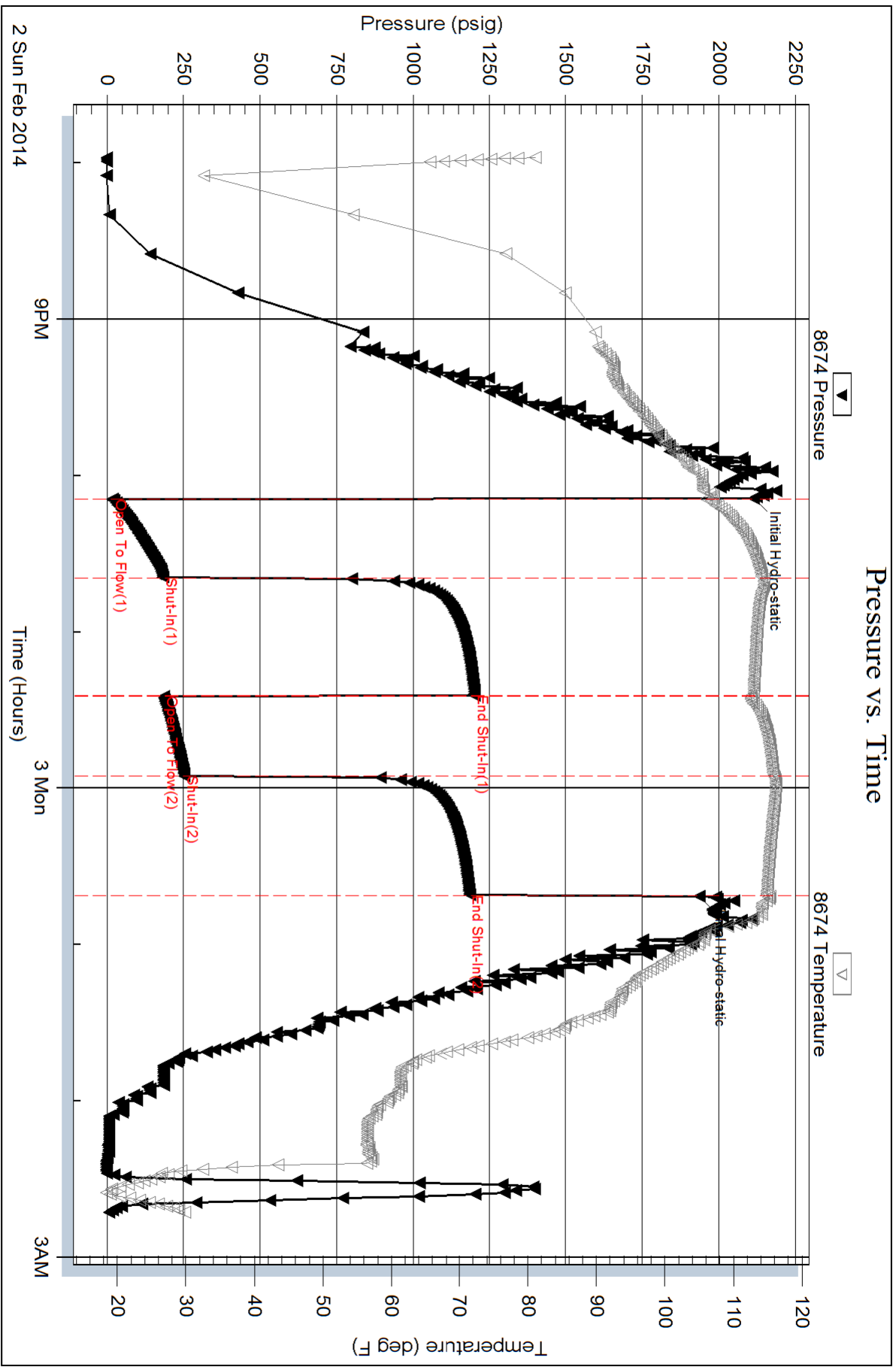
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW is .368 @ 40f = 32000





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**3-16s-35w Wichita Co. KS**  
**Ken Baker A # 3-1**  
 Job Ticket: 56302 **DST#: 4**  
 Test Start: 2014.02.03 @ 22:58:00

## GENERAL INFORMATION:

Formation: **Alt " B "**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 00:52:10 Tester: Will MacLean  
 Time Test Ended: 04:37:39 Unit No: 72  
 Interval: **4428.00 ft (KB) To 4445.00 ft (KB) (TVD)** Reference Elevations: 3188.00 ft (KB)  
 Total Depth: 4445.00 ft (KB) (TVD) 3177.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

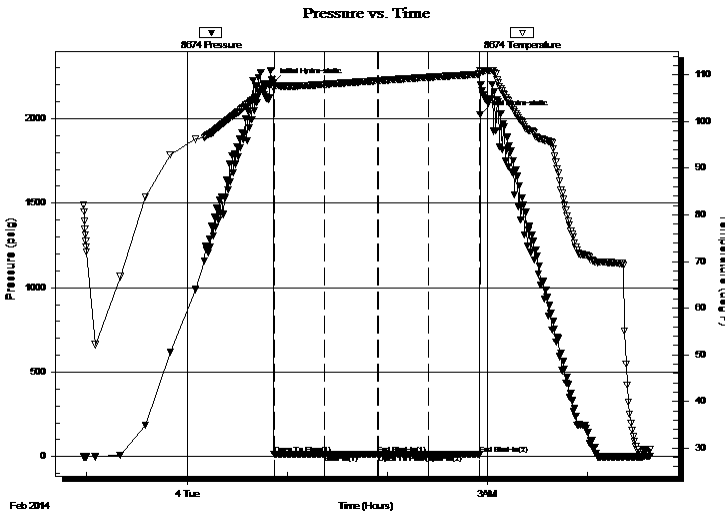
## Serial #: 8674

Inside

Press @ Run Depth: 12.17 psig @ 4430.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.03 End Date: 2014.02.04 Last Calib.: 2014.02.04  
 Start Time: 22:58:00 End Time: 04:37:39 Time On Btm: 2014.02.04 @ 00:51:55  
 Time Off Btm: 2014.02.04 @ 02:55:40

TEST COMMENT: IF- Weak Surface Blow Built to 1/2"  
 IS- No Blow  
 FF- No Blow Flushed the Tool No Blow  
 FS- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2215.14	108.24	Initial Hydro-static
1	11.54	107.26	Open To Flow (1)
31	12.81	107.96	Shut-In(1)
63	13.77	108.76	End Shut-In(1)
63	13.81	108.78	Open To Flow (2)
93	12.17	109.48	Shut-In(2)
124	14.40	110.15	End Shut-In(2)
124	2022.78	110.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	100% m with a Skim of Oil	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.  
P.o Box 8050  
Edmond OK. 73083  
ATTN: Kitt Noah

**3-16s-35w Wichita Co. KS**  
**Ken Baker A # 3-1**  
Job Ticket: 56302      **DST#: 4**  
Test Start: 2014.02.03 @ 22:58:00

## 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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.77 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

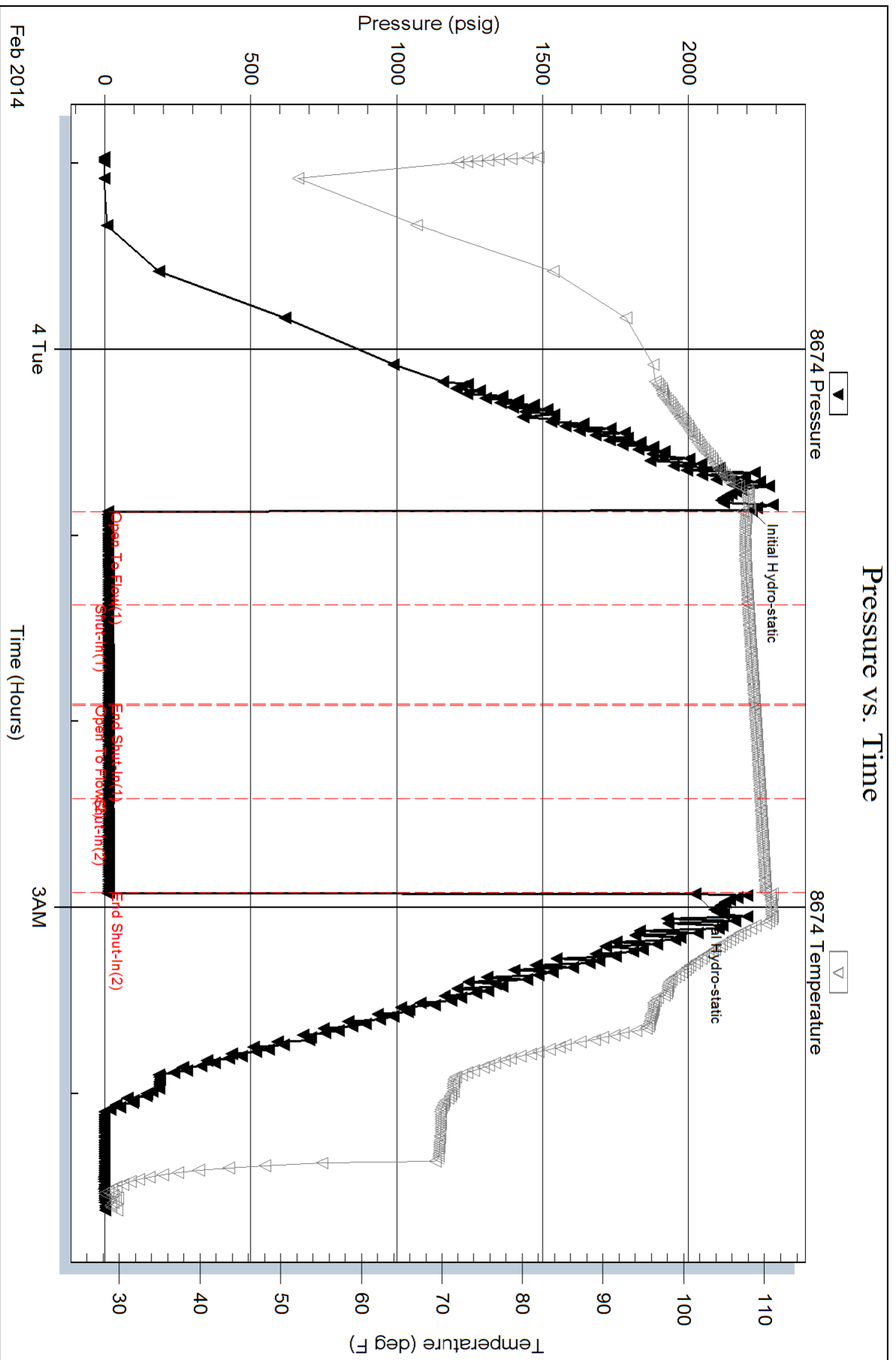
## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100% m with a Skim of Oil	0.010

Total Length: 2.00 ft      Total Volume: 0.010 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.  
 P.o Box 8050  
 Edmond OK. 73083  
 ATTN: Kitt Noah

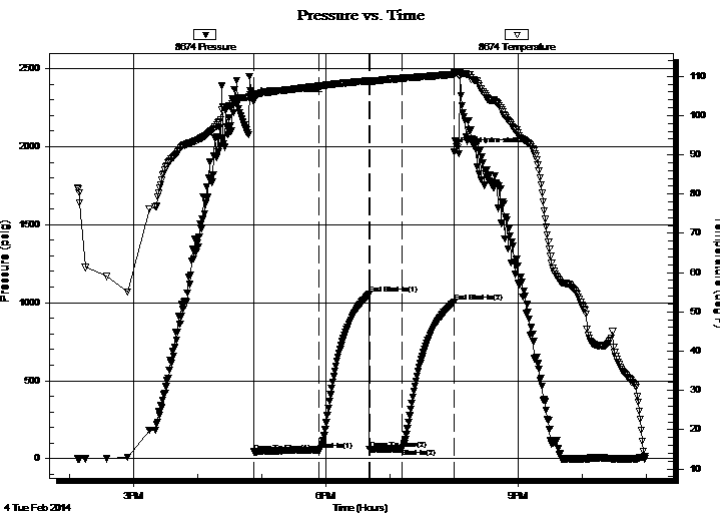
**3-16s-35w Wichita Co. KS**  
**Ken Baker A # 3-1**  
 Job Ticket: 56303 **DST#: 5**  
 Test Start: 2014.02.04 @ 14:08:00

## GENERAL INFORMATION:

Formation: **Alt " C "**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 16:52:40 Tester: Will MacLean  
 Time Test Ended: 22:58:55 Unit No: 72  
 Interval: **4442.00 ft (KB) To 4480.00 ft (KB) (TVD)** Reference Elevations: 3188.00 ft (KB)  
 Total Depth: 4480.00 ft (KB) (TVD) 3177.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 11.00 ft

**Serial #: 8674 Inside**  
 Press@RunDepth: 63.63 psig @ 4443.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.02.04 End Date: 2014.02.04 Last Calib.: 2014.02.04  
 Start Time: 14:08:00 End Time: 22:58:55 Time On Btm: 2014.02.04 @ 16:52:25  
 Time Off Btm: 2014.02.04 @ 20:00:39

**TEST COMMENT:** IF- Weak Surface Blow Built to 1/2" then Died Back to Dead in 49min  
 IS- No Blow  
 FF- No Blow Flushed the Tool No Blow  
 FS- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2287.04	105.63	Initial Hydro-static
1	43.48	104.76	Open To Flow (1)
62	55.88	107.50	Shut-In(1)
109	1054.48	108.82	End Shut-In(1)
109	60.91	108.36	Open To Flow (2)
139	63.63	109.48	Shut-In(2)
188	1002.06	110.42	End Shut-In(2)
189	1968.28	110.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
94.00	WCM 4%w 96%a Few Oil Spots in	Ti0.46

\* 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.

**3-16s-35w Wichita Co. KS**

P.o Box 8050  
Edmond OK. 73083

**Ken Baker A # 3-1**

Job Ticket: 56303

**DST#: 5**

ATTN: Kitt Noah

Test Start: 2014.02.04 @ 14:08:00

## 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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
94.00	WCM 4%w 96%m a Few Oil Spots in Tool	0.462

Total Length: 94.00 ft      Total Volume: 0.462 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8674

Inside

Russell Oil Inc.

Ken Baker A # 3-1

DST Test Number: 5

