

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1243792  
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: \_\_\_\_\_

1243792

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:  Yes  No

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

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Edwards Trust G 6-1
Doc ID	1243792

All Electric Logs Run

BOREHOLE SONIC
COMPUTER PROCESSED INTERP
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISTIVITY

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	Edwards Trust G 6-1
Doc ID	1243792

Tops

Name	Top	Datum
ANHYDRITE	2411	+673
BASE ANHYDRITE	2430	+654
TOPEKA	NC	NC
HEEBNER	3923	-839
TORONTO	3939	-855
LANSING	3970	-886
MUNCIE CREEK	4148	-1064
STARK SHALE	4246	-1162
BASE KC	4328	-1244
MARMATON	4379	-1295
PAWNEE	4469	-1385
FT SCOTT	4514	-1430
CHEROKEE SHALE	4542	-1458
JOHNSON	4598	-1514
MORROW	4466	-1582
MISSISSIPPI	4730	-1646
LTD	4792	-1708
RTD	4790	-1706





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

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

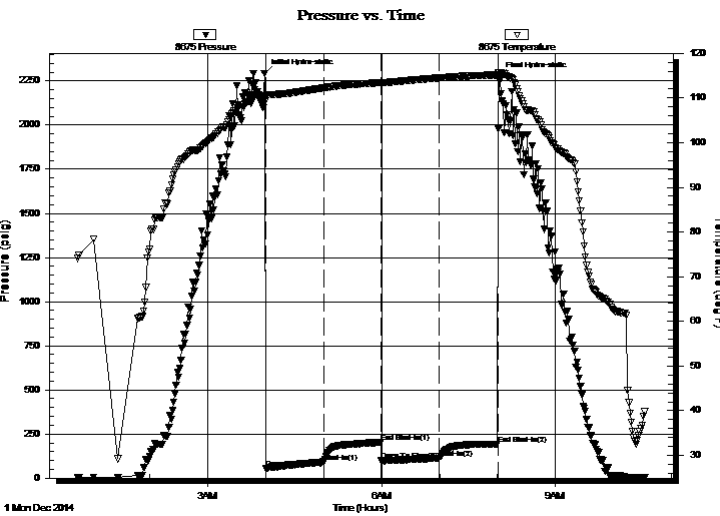
**6-16s-34w Scott, KS**  
**Edwards Trust G 6-1**  
 Job Ticket: 58506 **DST#: 1**  
 Test Start: 2014.12.01 @ 00:45:00

## GENERAL INFORMATION:

Formation: **Mar, Altamont 'B'**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:59:45  
 Time Test Ended: 10:32:30  
 Interval: **4394.00 ft (KB) To 4420.00 ft (KB) (TVD)**  
 Total Depth: 4420.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jace McKinney  
 Unit No: 75  
 Reference Elevations: 3084.00 ft (KB)  
 3073.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8675 Inside**  
 Press@RunDepth: 112.87 psig @ 4417.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.01 End Date: 2014.12.01 Last Calib.: 2014.12.01  
 Start Time: 00:45:15 End Time: 10:32:30 Time On Btm: 2014.12.01 @ 03:58:30  
 Time Off Btm: 2014.12.01 @ 08:02:00

**TEST COMMENT:** Built to 8" blow  
 Bled off for 5 min, No return blow  
 Built to 3" blow .  
 Bled off for 5 min, No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.26	110.60	Initial Hydro-static
2	56.23	109.43	Open To Flow (1)
62	91.58	112.26	Shut-In(1)
121	202.95	113.43	End Shut-In(1)
121	102.65	113.39	Open To Flow (2)
181	112.87	114.49	Shut-In(2)
242	191.62	115.17	End Shut-In(2)
244	2274.40	115.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	251 Feet Gas In Pipe	0.00
122.00	gco 20%G 80%O	0.60
92.00	gcom 10%G 30%O 60%M	0.45

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Russell Oil, Inc.

**6-16s-34w Scott,KS**

PO Box 8050  
Edmond OK, 73083

**Edwards Trust G 6-1**

Job Ticket: 58506

**DST#: 1**

ATTN: Kitt Noah

Test Start: 2014.12.01 @ 00:45:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	251 Feet Gas In Pipe	0.000
122.00	gco 20%G 80%O	0.600
92.00	gcom 10%G 30%O 60%M	0.452

Total Length: 214.00 ft      Total Volume: 1.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 30 @ 30 F = 33

Serial #: 8675

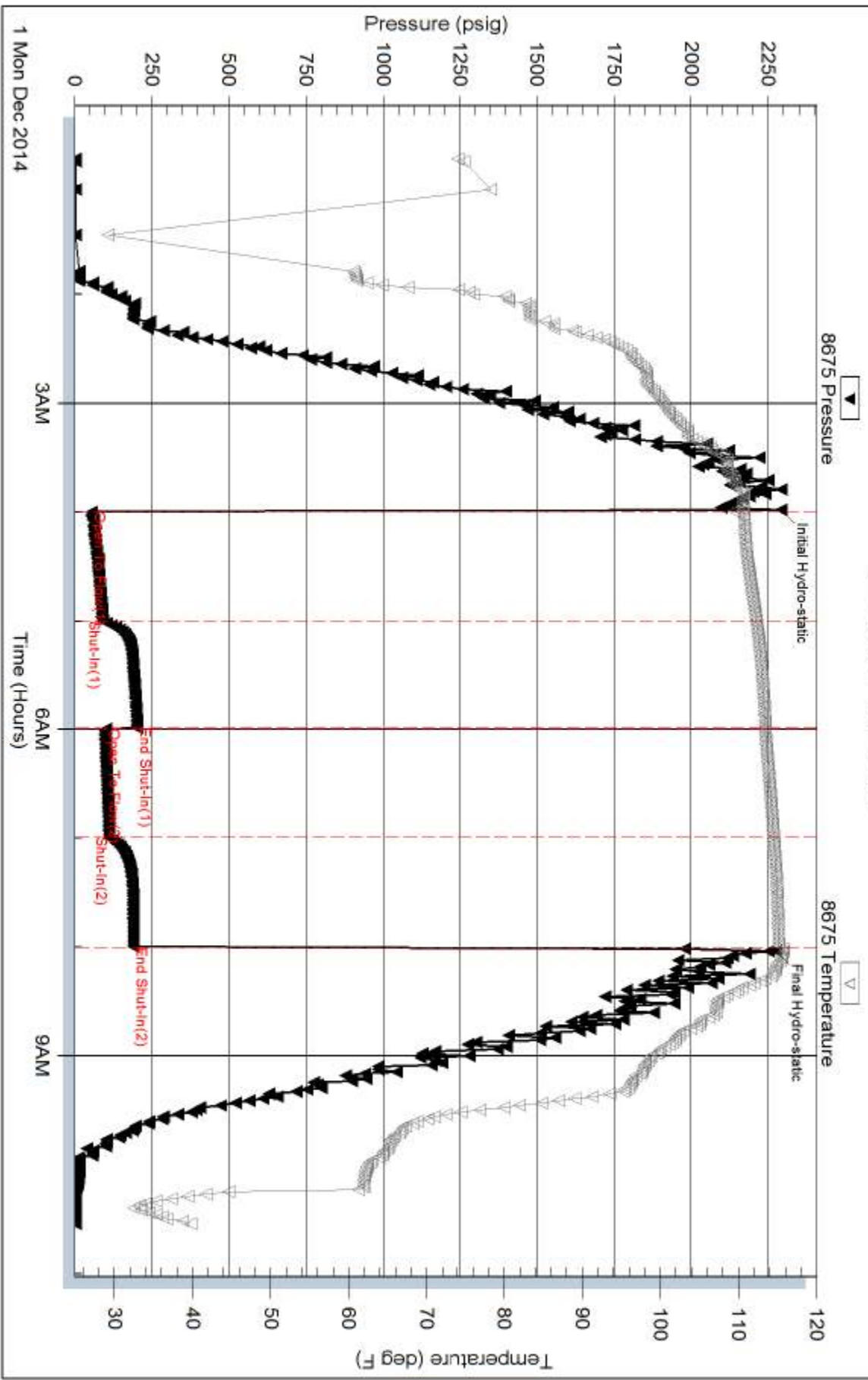
Inside

Russell Oil, Inc.

Edwards Trust G-6-1

DST Test Number: 1

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 58506

Printed: 2014, 12, 01 @ 13:33:50





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**6-16s-34w Scott Co, KS**

**Edwards Trust G 6-1**

Job Ticket: 58507      **DST#: 2**  
 Test Start: 2014.12.02 @ 10:05:00

## GENERAL INFORMATION:

Formation: **Johnson Zone**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 12:47:45  
 Time Test Ended: 18:06:00  
 Interval: **4592.00 ft (KB) To 4618.00 ft (KB) (TVD)**  
 Total Depth: 4618.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 75  
 Reference Elevations: 3084.00 ft (KB)  
 3073.00 ft (CF)  
 KB to GR/CF: 11.00 ft

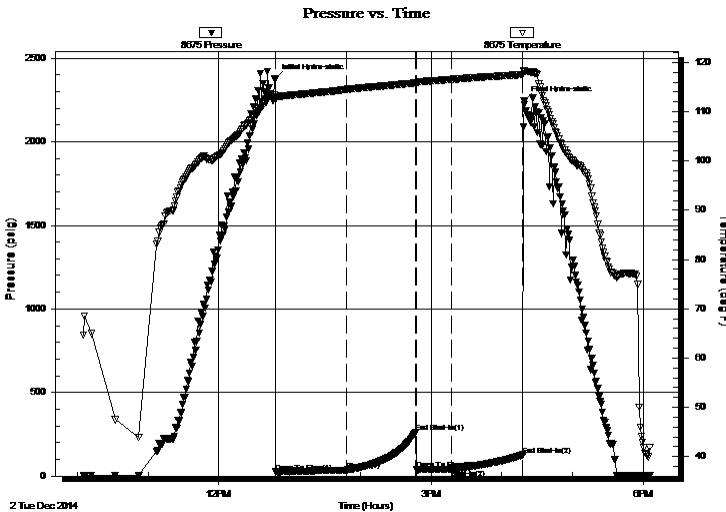
## Serial #: 8675

Inside

Press @ Run Depth: 41.78 psig @ 4615.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.12.02      End Date: 2014.12.02      Last Calib.: 2014.12.02  
 Start Time: 10:05:15      End Time: 18:06:00      Time On Btm: 2014.12.02 @ 12:47:30  
 Time Off Btm: 2014.12.02 @ 16:18:45

**TEST COMMENT:** Built to 1" in 30 min, stayed there for 60 min  
 Bled off for 3 min, No return blow  
 No blow, Flushed tool 20 min into, Surge blow  
 Bled off for 3 min, No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2375.76	113.39	Initial Hydro-static
1	24.66	112.33	Open To Flow (1)
61	35.82	114.51	Shut-In(1)
120	262.02	115.83	End Shut-In(1)
120	39.71	115.80	Open To Flow (2)
150	41.78	116.56	Shut-In(2)
211	126.40	117.56	End Shut-In(2)
212	2242.95	118.39	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	ocm 10%O 90%M	0.22

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**6-16s-34w Scott Co, KS**

**Edwards Trust G 6-1**

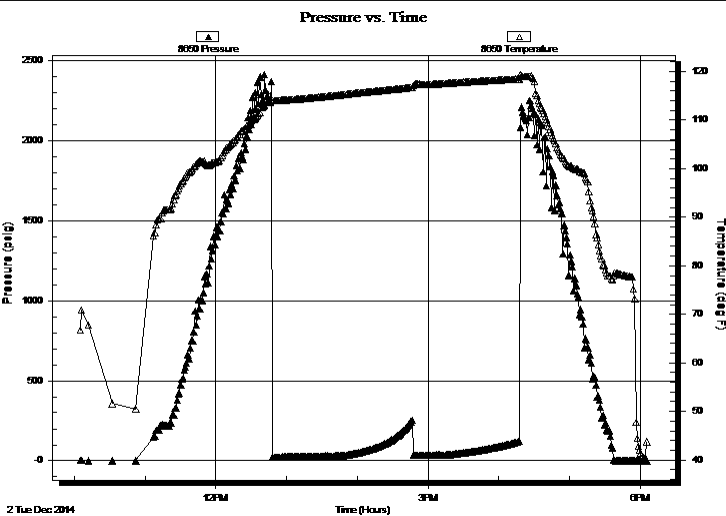
Job Ticket: 58507 **DST#: 2**  
 Test Start: 2014.12.02 @ 10:05:00

**GENERAL INFORMATION:**

Formation: **Johnson Zone**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:47:45  
 Time Test Ended: 18:06:00  
 Interval: **4592.00 ft (KB) To 4618.00 ft (KB) (TVD)**  
 Total Depth: 4618.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Jace McKinney  
 Unit No: 75  
 Reference Elevations: 3084.00 ft (KB)  
 3073.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8650 Outside**  
 Press @ Run Depth: psig @ 4615.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2014.12.02 End Date: 2014.12.02 Last Calib.: 2014.12.02  
 Start Time: 10:05:15 End Time: 18:05:45 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** Built to 1" in 30 min, stayed there for 60 min  
 Bled off for 3 min, No return blow  
 No blow, Flushed tool 20 min into, Surge blow  
 Bled off for 3 min, No return blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
45.00	ocm 10%O 90%M	0.22

**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.

**6-16s-34w Scott Co, KS**

PO Box 8050  
Edmond OK, 73083

**Edwards Trust G 6-1**

Job Ticket: 58507

**DST#: 2**

ATTN: Kitt Noah

Test Start: 2014.12.02 @ 10:05:00

## 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: 49.00 sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	ocm 10%O 90%M	0.221

Total Length: 45.00 ft      Total Volume: 0.221 bbl

Num Fluid Samples: 0

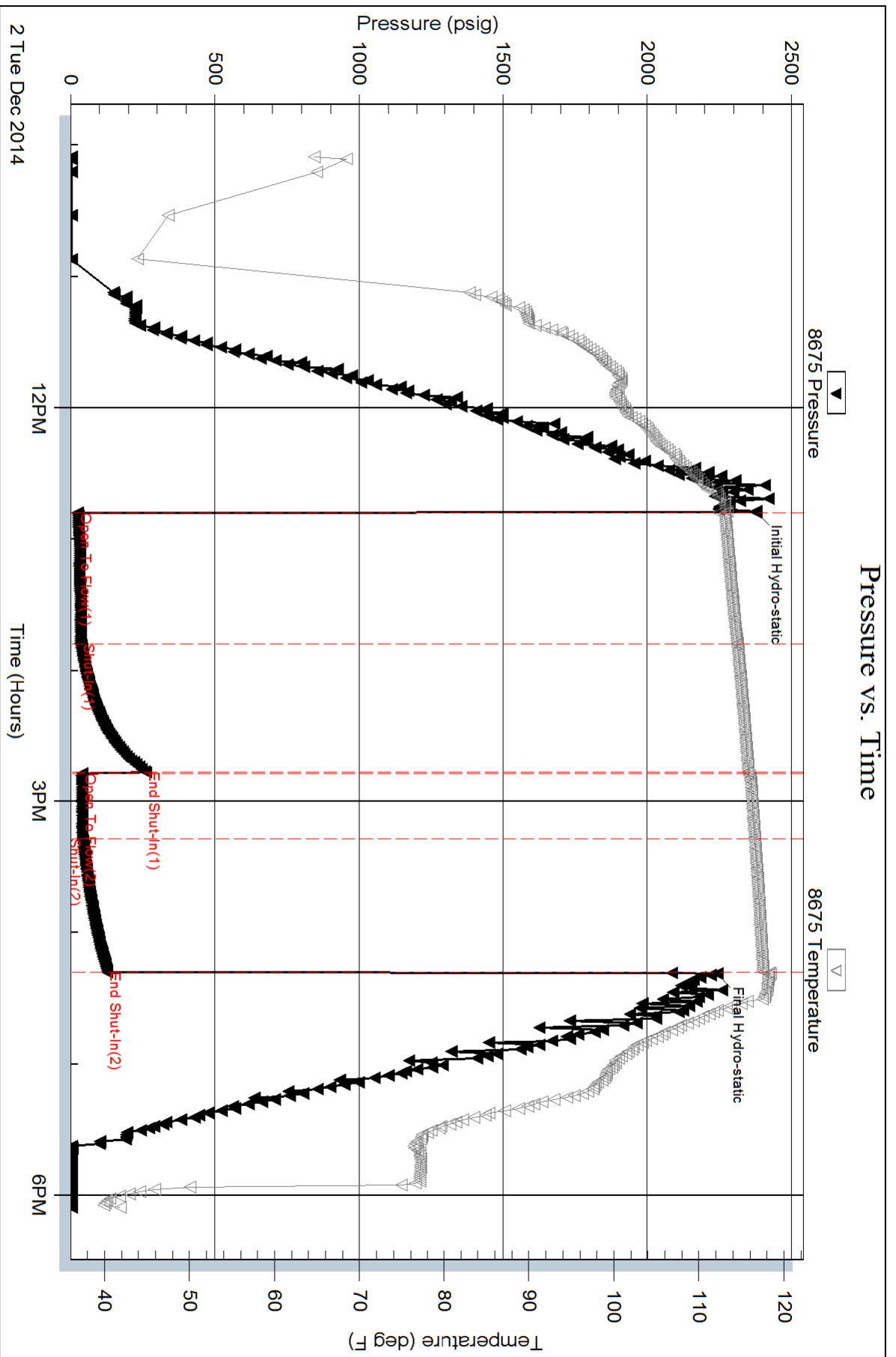
Num Gas Bombs: 0

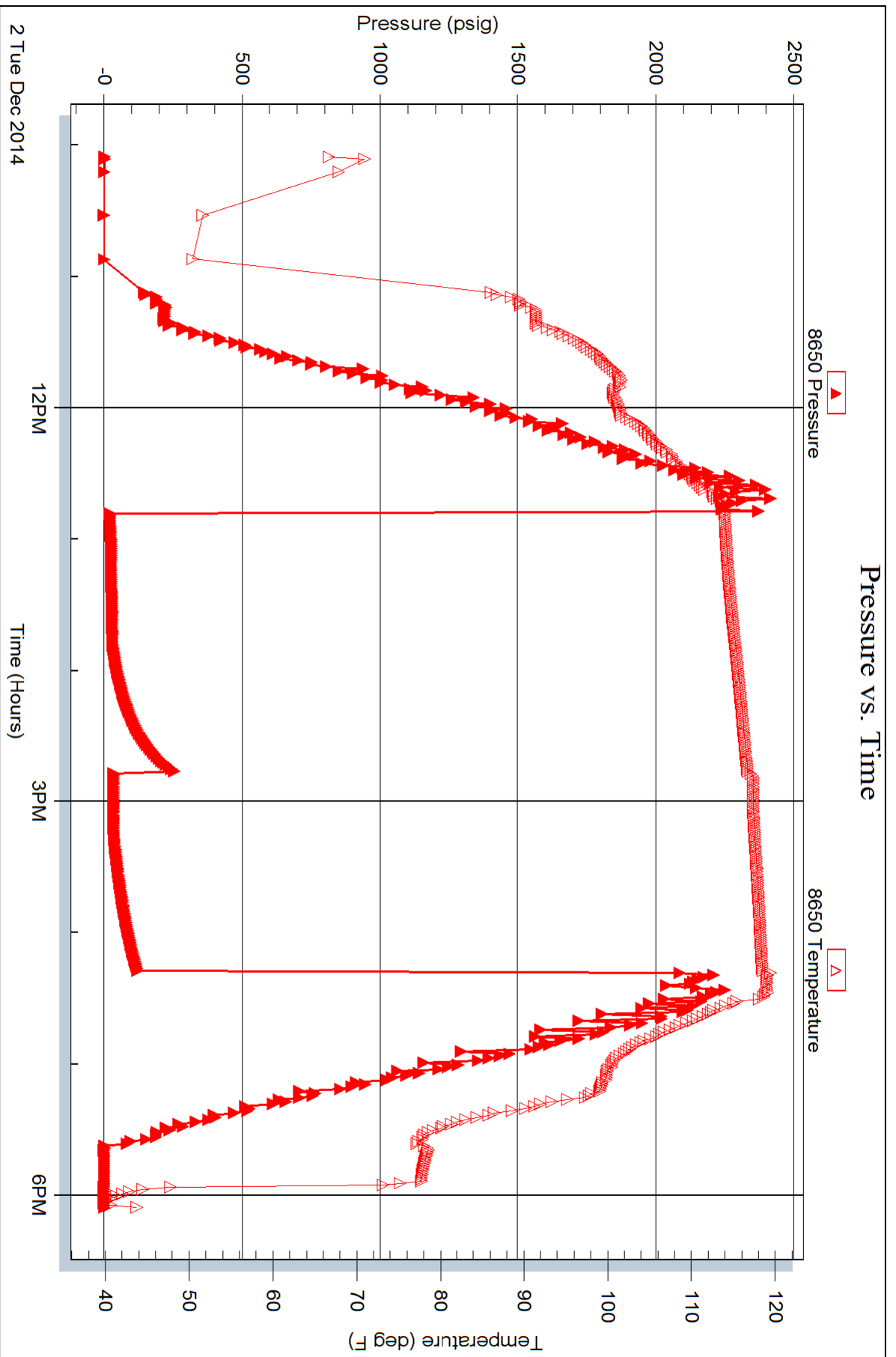
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

**6-16s-34w Scott Co, KS**

**Edwards Trust G 6-1**

Job Ticket: 58637      **DST#: 3**  
 Test Start: 2014.12.03 @ 10:10:00

## GENERAL INFORMATION:

Formation: **Morrow Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:14:00  
 Time Test Ended: 16:09:00  
 Interval: **4660.00 ft (KB) To 4725.00 ft (KB) (TVD)**  
 Total Depth: 4725.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Justin Harris  
 Unit No: 58  
 Reference Elevations: 3084.00 ft (KB)  
 3073.00 ft (CF)  
 KB to GR/CF: 11.00 ft

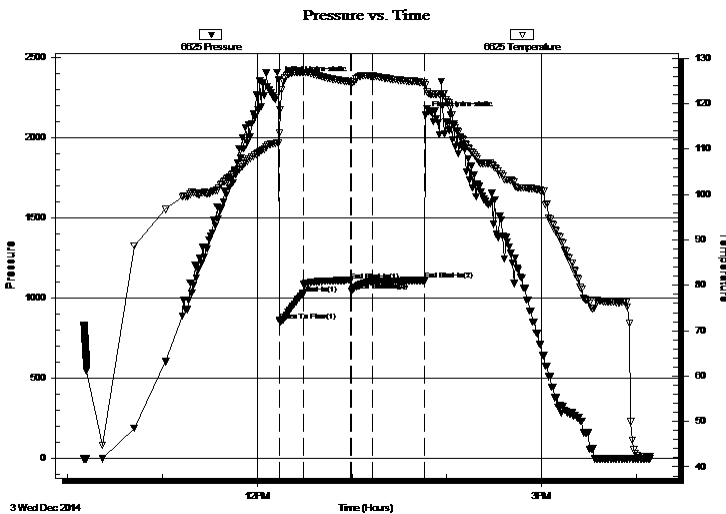
## Serial #: 6625

**Outside**

Press @ Run Depth: 1101.88 psig @ 4721.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2014.12.03      End Date: 2014.12.03      Last Calib.: 2014.12.03  
 Start Time: 10:10:01      End Time: 16:09:00      Time On Btm: 2014.12.03 @ 12:13:30  
 Time Off Btm: 2014.12.03 @ 13:46:30

TEST COMMENT: 15: B.O.B in 30 secs.  
 30: Weak surface blow .  
 15: B.O.B in 1 mins.  
 30: No Blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2358.20	111.34	Initial Hydro-static
1	858.86	113.57	Open To Flow (1)
16	1028.87	126.90	Shut-In(1)
46	1108.21	124.81	End Shut-In(1)
46	1045.94	124.92	Open To Flow (2)
60	1101.88	126.11	Shut-In(2)
93	1109.95	124.68	End Shut-In(2)
93	2140.17	124.16	Final Hydro-static

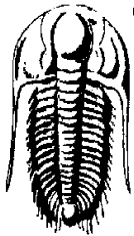
## Recovery

Length (ft)	Description	Volume (bbl)
372.00	mcw 30m 70w	1.89
1860.00	mcw 10m 90w	26.09
45.00	mcw 10m 89w 1o oil spots.	0.63

\* Recovery from multiple tests

## Gas Rates

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



**TRILLOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**6-16s-34w Scott Co, KS**

**Edwards Trust G 6-1**

Job Ticket: 58637

**DST#: 3**

Test Start: 2014.12.03 @ 10:10:00

## GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:14:00

Time Test Ended: 16:09:00

**Interval: 4660.00 ft (KB) To 4725.00 ft (KB) (TVD)**

Total Depth: 4725.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Bottom Hole (Reset)

Tester: Justin Harris

Unit No: 58

Reference Elevations: 3084.00 ft (KB)

3073.00 ft (CF)

KB to GR/CF: 11.00 ft

## Serial #: 8319

Press @RunDepth: psig @ ft (KB)

Start Date: 2014.12.03 End Date: 2014.12.03

Start Time: 10:10:01 End Time: 16:09:30

Capacity: 8000.00 psig

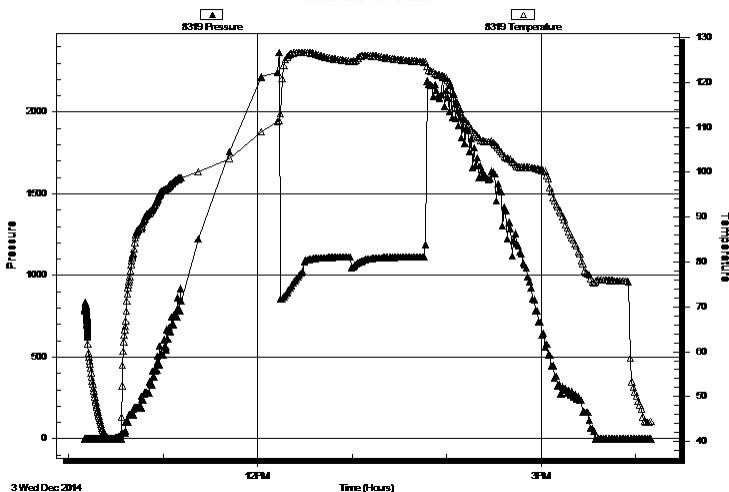
Last Calib.: 2014.12.03

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 15: B.O.B in 30 secs.  
30: Weak surface blow .  
15: B.O.B in 1 mins.  
30: No Blow .

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
372.00	mcw 30m 70w	1.89
1860.00	mcw 10m 90w	26.09
45.00	mcw 10m 89w 1o oil spots.	0.63

## 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.

**6-16s-34w Scott Co, KS**

PO Box 8050  
Edmond OK, 73083

**Edwards Trust G 6-1**

Job Ticket: 58637

**DST#: 3**

ATTN: Kitt Noah

Test Start: 2014.12.03 @ 10:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
372.00	mcw 30m 70w	1.886
1860.00	mcw 10m 90w	26.091
45.00	mcw 10m 89w 1o oil spots.	0.631

Total Length: 2277.00 ft      Total Volume: 28.608 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

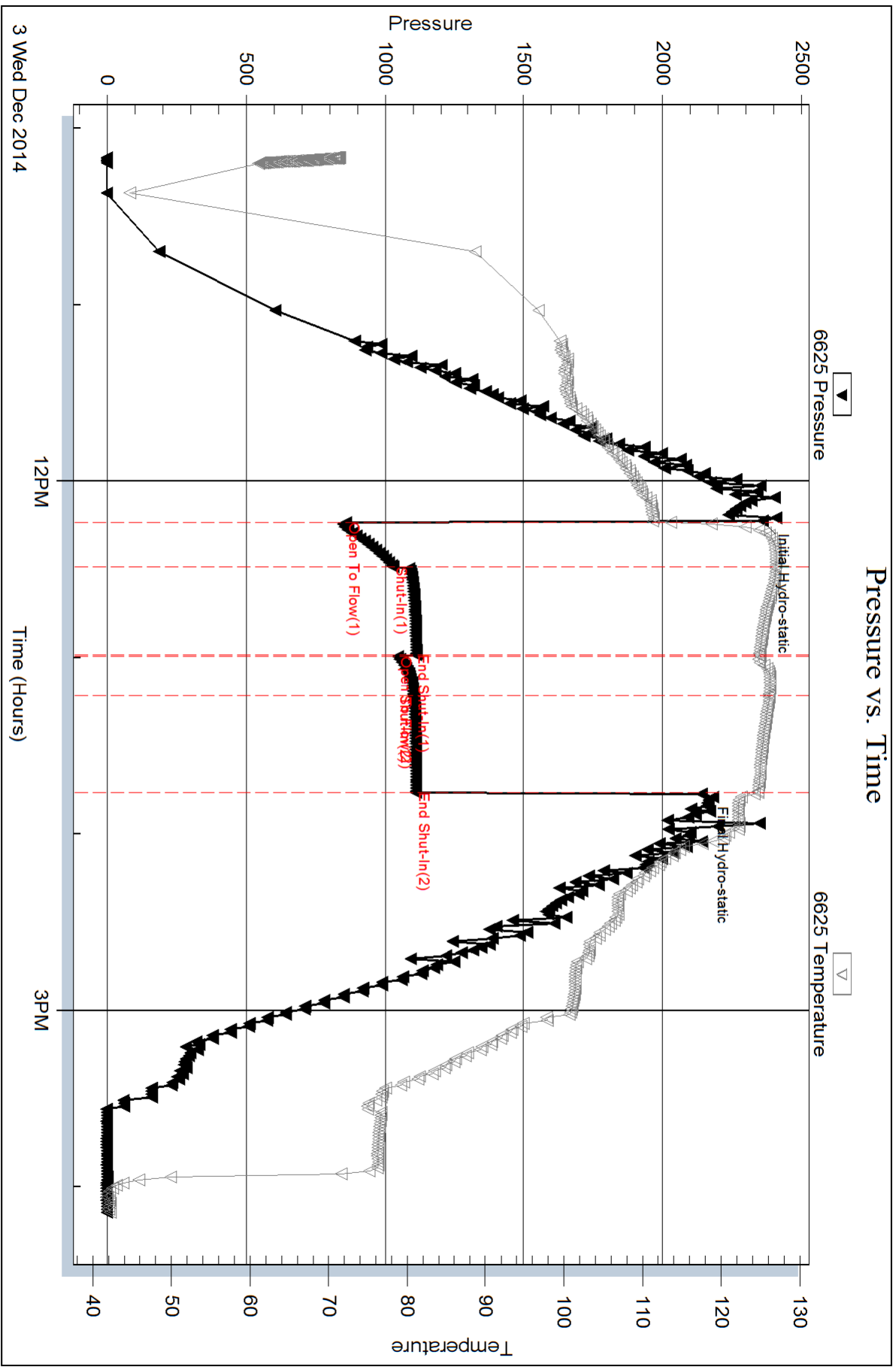
Serial #:

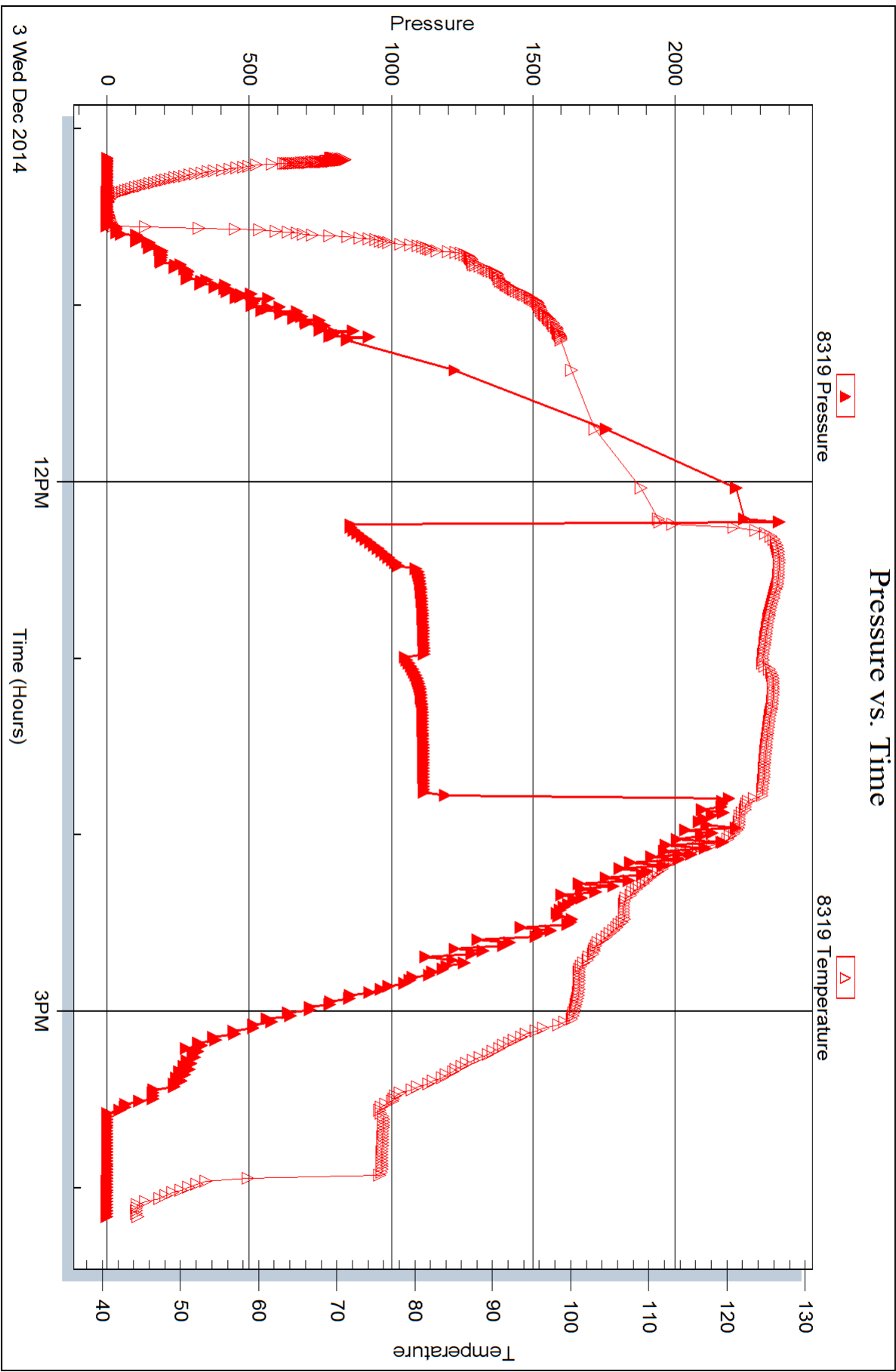
Laboratory Name:

Laboratory Location:

Recovery Comments: API RW .2 @ 46 F = 50000 Chlorides







# KITT NOAH

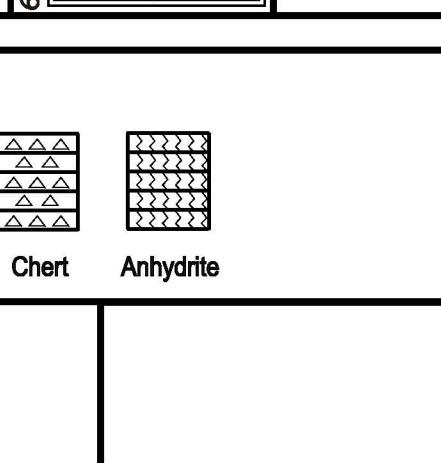
PETROLEUM GEOLOGIST  
Kansas License #229



## GEOLOGIST'S REPORT

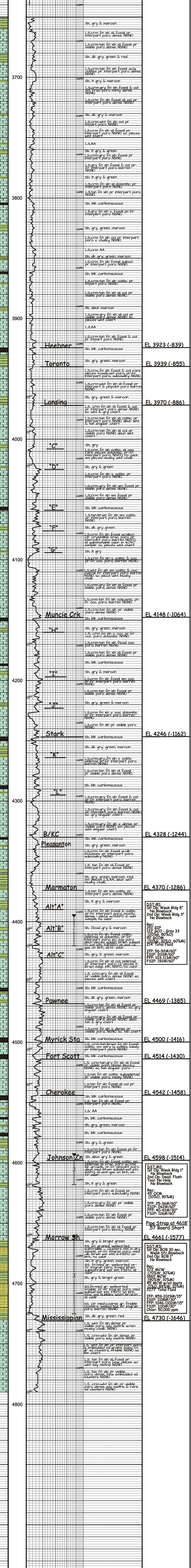
DRILLING TIME AND SAMPLE LOG

ELEVATION: KB 3084  
CL: 3073  
MEASURED FROM: KB



<b>OPERATOR:</b> Russell Oil, Inc.	<b>LEASE:</b> Edwards Trust "G" Well No. #6-1	<b>LOCATION:</b> 1643'FN & 1954'FE	<b>SEC:</b> 6	<b>TWP:</b> 16S	<b>RNG:</b> 34W
<b>COUNTY:</b> Scott	<b>STATE:</b> Kansas	<b>DI. TOOL:</b> 2435' w/380' SA	<b>DRILLING TIME:</b> 4790	<b>DATE:</b> 12-4-2014	<b>LOG NO.:</b> 4792 (-1708)
<b>CONTRACTOR:</b> H2 Drilling Bldg #1	<b>COMM.:</b> 11-2-2014	<b>COMP.:</b> 12-4-2014	<b>FORM:</b> 4790	<b>LTD.:</b> 4792	<b>DATE:</b> 12-4-2014
<b>ANHYDRITE</b>	2408 (-676)	2426 (-658)	3923 (-839)	3970 (-886)	4246 (-1162)
<b>B/ANHYDRITE</b>	4328 (-1244)	4370 (-1286)	4469 (-1385)	4542 (-1458)	4730 (-1646)
<b>HEEBNER</b>	4790 (-1708)				
<b>TORONTO</b>					
<b>LANSING</b>					
<b>"C"</b>					
<b>"D"</b>					
<b>"E"</b>					
<b>"F"</b>					
<b>"G"</b>					
<b>MUNCIE CRK</b>					
<b>"H"</b>					
<b>"I"</b>					
<b>"J"</b>					
<b>STARK</b>					
<b>"K"</b>					
<b>"L"</b>					
<b>B/KC</b>					
<b>PLEASANTON</b>					
<b>MARMATON</b>					
<b>Alt "A"</b>					
<b>Alt "B"</b>					
<b>Alt "C"</b>					
<b>PAWNEE</b>					
<b>MYRICK STA</b>					
<b>FORT SCOTT</b>					
<b>CHEROKEE</b>					
<b>JOHNSON Zn</b>					
<b>MORROW Sh</b>					
<b>MISSISSIPPIAN</b>					

### LEGEND



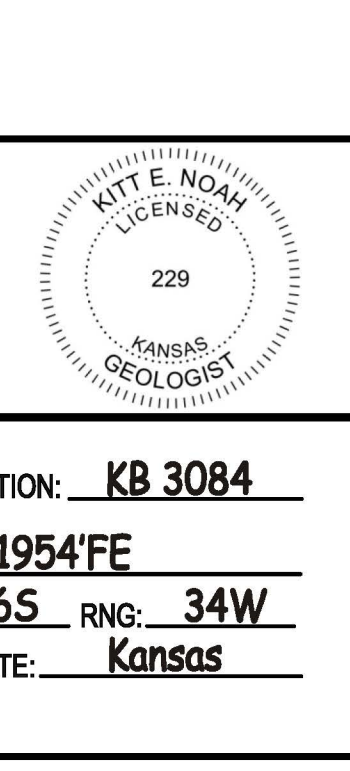
DST #1:  
1st Op: Weak Bldg 8"  
No Blowback  
2nd Op: Weak Bldg 3"  
No Blowback  
Rec: 25' GTP  
122' GCO - 80v 33  
(20%G, 80%O)  
92' GCOM  
(10%G, 30%O, 60%M)  
214' Total Fluid  
IFP: 56-92#/60"  
ISIP: 203#/60"  
FFP: 103-113#/60"  
FSIP: 192#/60"

DST #2:  
1st Op: Weak Bldg 1"  
No Blowback  
2nd Op: Dead; Flush  
Tool No Help  
No Blowback  
Rec: 45' OCM  
(10%O, 90%M)  
IFP: 25-36#/60"  
ISIP: 203#/60"  
FFP: 106-42#/30"  
FSIP: 126#/60"

Pipe Strap at 4618'  
.57 Board Short  
DST #3:  
1st Op: BOB 30 sec.  
Weak Sfc Blowback  
2nd Op: BOB 1"  
No Blowback  
Rec: 37' MCW  
(70%W, 30%M)  
186' MCW  
(90%W, 10%M)  
45' MCW w/oil spots  
(1%O, 89%W, 10%M)  
227' Total Fluid  
IFP: 859-1029#/15"  
ISIP: 1108#/30"  
FFP: 1046-1102#/15"  
FSIP: 1110#/30"  
Chlor: 50,000 ppm

ELEVATION: KB 3084

OPERATOR: Russell Oil, Inc.	LOCATION: 1643'FN & 1954'FE
LEASE: Edwards Trust "G" Well No. #6-1	SEC: 6 TWP: 16S RNG: 34W
API: 15-171-21-089	COUNTY: Scott STATE: Kansas





**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
820-431-8210 or 800-467-8676

11/87  
1170  
INVOICE # 802317/86

TICKET NUMBER 46595

LOCATION Oakley KS

FOREMAN Dane Retzloff

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
11/21/14	7043	Edward's Trust 6-1	6	16	34	Scott	
CUSTOMER		Pence West to Wichita Scott Line North 2 miles East into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS				712	Mike		
CITY		STATE		460	Bill		
ZIP CODE				Helper	Larry		

JOB TYPE <u>Surface</u>	HOLE SIZE <u>12 1/4</u>	HOLE DEPTH <u>320</u>	CASING SIZE & WEIGHT <u>8 3/8 24 LBS</u>
CASING DEPTH <u>225</u>	DRILL PIPE	TUBING	OTHER
SLURRY WEIGHT <u>19.8</u>	SLURRY VOL <u>1.36</u>	WATER gal/sk <u>6.5</u>	CEMENT LEFT IN CASING <u>0.25</u>
DISPLACEMENT <u>19.42</u>	DISPLACEMENT PSI	MIX PSI	RATE

REMARKS: Safety meeting. Rig up. Break circulation with rig pump. mix 210 sks of class A 390 cc 290 gal. Displace 19 1/2 BBLs of water. Shut in. Cement did circulate.

Thanks Dane & crew.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401s	1	PUMP CHARGE	1150.00	1150.00
5401	35	MILEAGE	5.25	183.75
5407a	9.87	Ton Mileage Delivery	1.75	604.54
1104s	210 sks	Class A cement	18.55	3895.50
1102	592#	Calcium Chloride	.94	556.48
1118	395#	Bentonite	.27	106.65
111	150#	Salt	NC	NC
			546	6496.92
			less 10%	649.69
			Total	5847.23
			SALES TAX	334.39
			ESTIMATED TOTAL	6181.62

AUTHORIZATION Carlo F...

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.

# BASIC

energy services, L.P.

St 950 #1

## TREATMENT REPORT

Customer RUSSELL OIL LLC	Lease No.	Date 12 2014
Lease EDWARDS TRUST G	Well # 6-1	
Field Order # 11657, 11655	Station PR5+1, KS	Casing 5 1/2
	Depth 4788	County SCOTT
Type Job CNW/2 St 950 5 1/2 Long strings	Formation TD-4790	Legal Description 6-16-34
State KS		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
8 1/2								
Depth 4788	Depth	From	To	Pre Pad	Max		5 Min.	
Volume	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 4772	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative Todd	Station Manager Kevin Gordley	Treater Darin Franklin
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Service Units	27263	84981	19843	19959	73768	70959	19918				
Driver Names	Darin	Ed	Ed	Beschy	Beschy	Gibson	Gibson				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
4:30pm					On location / Safety meeting
					1135+ 5 1/2 casing seal 4788'
					DU TOOL - #56 2435'
					BSSKEL - #12, 57
					Tubing - 2, 5, 8, 10, 15, 18, 57
					175SK BAZ cement - Russell Oil Blend
					15.3 PPS, 1.36 VPI, 5.46 WSPR
10:30pm	400		24	5	Pump 24 hrs Super Flush 11
	400		5	5	5 bbls water
	400		42	5	mix 175SK cement
					Shut down
					Drop WSPR pump & lines
					Drop PWS
	200		0	6	DISPICR water & mud
	500		82	6	1.1+ pressure
	500		104	3	slow rate
	1,000		114	3	BUMD PWS
					Release - Held
	100		8	3	Plus Rate mouse holes
					Drop DSR
	800		1	1	Open DU TOOL

# BASIC

energy services, L.P.

Stage #2

## TREATMENT REPORT

Customer RUSSELL OIL LLC	Lease No.	Date 12-4-2014
Lease F&W SERVICES TRUST G	Well # 6-1	
Field Order # 1654.11655	Station PR944, KS	Casing 5 1/2
		Depth 4788
		County SCOTT
		State KS
Type Job CNW/ 250SS 5 1/2 LONGSTOPS	Formation TD 4790	Legal Description 6-16-34

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max			5 Min.
Volume	Volume	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			Total Load

Customer Representative	Station Manager	Treater
Service Units		
Driver Names		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					350SK A-con Blend Common, 3%CC 1/4 H Cell Piske, 11.6 pps, 2.77 gal, 16.71 wstr
11:30 AM	300		172	6	Mix 350SK Cement Shut down Wash pump & lines Drop plug
	500			6	Set SR & BICENTRAL
	1500		48	3	Bump plug
	1600		58	1	Close DV Tool
12:30 AM					CEAL CEMENT TO SET Job Complete / DSR & GRP Thank you!!!