



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1209023  
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: \_\_\_\_\_

1209023

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

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

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

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

<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> <i>(Submit ACO-4)</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	Edwards FG Unit 1
Doc ID	1209023

All Electric Logs Run

COMPUTER PROCESS INTERPRETATION
DUAL INDUCTION
DUAL COMPENSATED POROSITY
MICRORESISTIVITY
BOREHOLE COMPENSATED SONIC
SECTOR BOND

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
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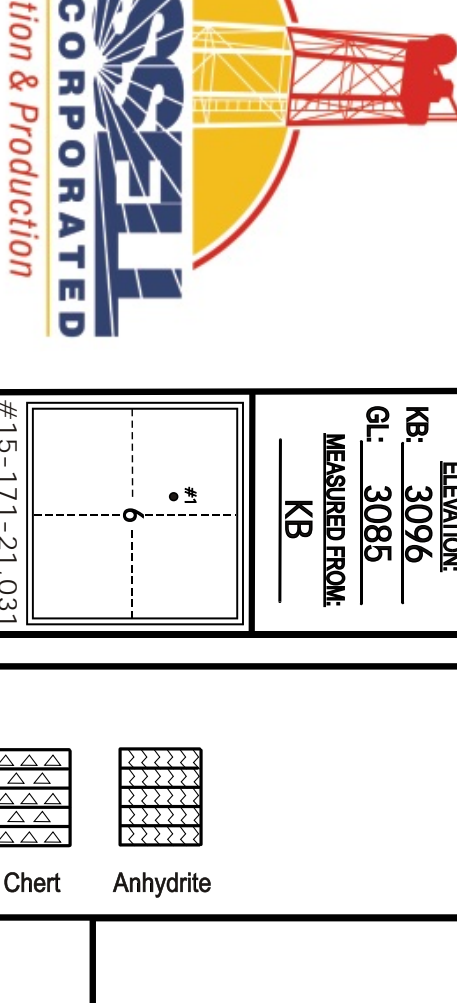
Tops

Name	Top	Datum
ANHYDRITE	2422	+674
BASE ANHYDRITE	2440	+656
TOPEKA	NC	NC
HEEBNER	3930	-834
TORONTO	3946	-850
LANSING	3977	-881
MUNCIE CREEK	4154	-1058
STARK SHALE	4252	-1156
BASE KC	4336	-1240
MARMATON	4384	-1288
PAWNEE	4476	-1380
FT SCOTT	4522	-1426
CHEROKEE SHALE	4550	-1454
JOHNSON	4605	-1509
MISSISSIPPI	4739	-1643



# KITT NOAH

PETROLEUM GEOLOGIST  
Kansas License #229



## GEOLOGIST'S REPORT

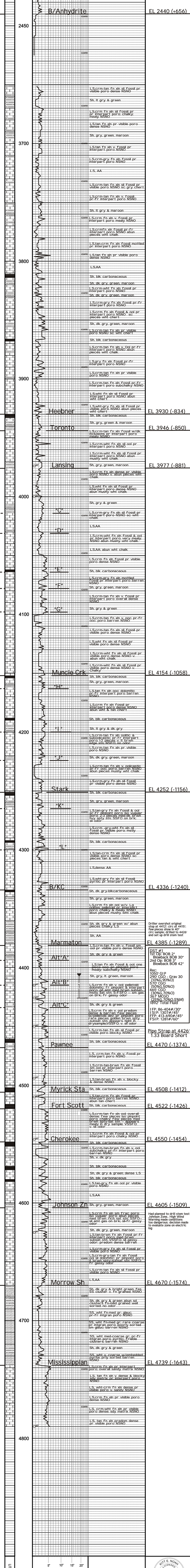
DRILLING TIME AND SAMPLE LOG

OPERATOR: Russell Oil, Inc. LOCATION: 1460'FN & 2260'FW  
 LEASE: Edwards FG Unit WELL NO.: #1 SEC.: 6 TWP.: 16S RNG.: 34W  
 COUNTY: Scott STATE: Kansas

FORMATION TOP LOG DITUM  
 Anhydrite 2422 (4674) COM. 3-12-2014 COM.P. 3-20-2014  
 B/Anhydrite 2440 (4656) RTD. 4790 LTD. 4795  
 Heebner 3930 (4834) SAMPLER SAVED FROM: 3650 TO TD  
 Toronto 3940 (4830) SAMPLER EXAMINED FROM: 3650 TO TD  
 Stark 4252 (-1156) MUD UP: 3450 MUD TYPE: chemical  
 B/KC 4336 (-1240) Mando - Tony Masters  
 Marmaton 4385 (-1289) DRILL STEM TESTS TAKEN: 1  
 Pawnee 4470 (-1374) Trilobite - Jace McKinney  
 Cherokee 4739 (-1643) SURVEYS: Pioneer Energy Services  
 Mississippian 4790 (-1689) Dual Compensated Porosity  
 LTD 4798 (-1699) Microlog  
 LTD 4798 (-1699) Petrolog Compensated Sonic

ELEVATION: KB 3096  
 G.L. 3085  
 MASURED FROM: KB

### LEGEND



Driller overshot original stop at 4412'; circ at 4415'; few pieces show in 40' circ sample; drilled to 4426' and set up drill stem test

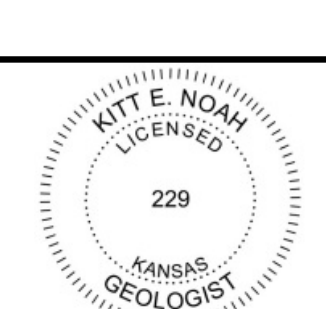
DST #1  
 1st Op: BOB 2'  
 Blowback BOB 30'  
 2nd Op: BOB 3'  
 Blowback BOB 42'

Rec:  
 1050' GIP  
 290' CGO - Grav 30 (10%G,90%O)  
 570' CGO (50%G,50%O)  
 665' CGO (30%G,70%O)  
 367' MCGO (25%G,70%O,5%M)  
 1892' Total Fluid

IFP: 86-404#/30"  
 ISP: 1307#/45"  
 FFP: 413-690#/45"  
 FSP: 1281#/60"

Pipe Strap at 4426'  
 1.33 Board Short

Had planned to drill stem test Johnson Zone. High Wind Warning made conditions too dangerous; decision made to evaluate zone on electric log



OPERATOR: Russell Oil, Inc. LOCATION: 1460'FN & 2260'FW  
 LEASE: Edwards FG Unit WELL NO.: #1 SEC.: 6 TWP.: 16S RNG.: 34W  
 API: 15-171-21.031 FIELD: Wildcat COUNTY: Scott STATE: Kansas

ELEVATION: KB 3096



**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 FG Unit 1**

Job Ticket: 56452      **DST#: 1**  
Test Start: 2014.03.17 @ 08:55:00

## GENERAL INFORMATION:

Formation: **Altamont B**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 11:30:30  
Time Test Ended: 17:46:00  
Interval: **4405.00 ft (KB) To 4426.00 ft (KB) (TVD)**  
Total Depth: 4426.00 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: 3096.00 ft (KB)  
3085.00 ft (CF)  
KB to GR/CF: 11.00 ft

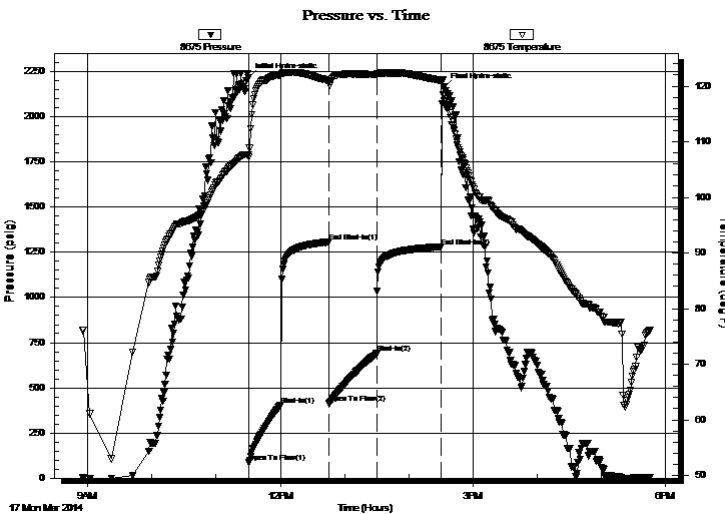
## Serial #: 8675

Inside

Press@RunDepth: 689.83 psig @ 4406.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2014.03.17      End Date: 2014.03.17      Last Calib.: 2014.03.17  
Start Time: 08:55:15      End Time: 17:46:00      Time On Btm: 2014.03.17 @ 11:30:15  
Time Off Btm: 2014.03.17 @ 14:33:15

TEST COMMENT: B.O.B. in 2 min  
Bled off for 5 min. B.O.B. in 30 min.  
B.O.B. in 3 min  
Bled off for 5 min. B.O.B. in 42 min.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2216.39	107.67	Initial Hydro-static
1	85.96	107.19	Open To Flow (1)
30	403.86	121.98	Shut-In(1)
75	1307.18	120.91	End Shut-In(1)
76	413.28	120.43	Open To Flow (2)
120	689.83	122.09	Shut-In(2)
180	1281.06	120.98	End Shut-In(2)
183	2163.62	117.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
367.00	mco 5%M 25%G 70%O	1.80
665.00	gco 30%G 70%O	9.32
570.00	gco 50%G 50%O	8.00
290.00	gco 10%G 90%O	4.07
0.00	1050 Feet Gas In Pipe	0.00

## 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 Co. KS**

PO Box 8050  
Edmond OK, 73083

**Edwards FG Unit 1**

Job Ticket: 56452

**DST#: 1**

ATTN: Kitt Noah

Test Start: 2014.03.17 @ 08:55:00

### 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
367.00	mcgo 5%M 25%G 70%O	1.805
665.00	gco 30%G 70%O	9.321
570.00	gco 50%G 50%O	7.996
290.00	gco 10%G 90%O	4.068
0.00	1050 Feet Gas In Pipe	0.000

Total Length: 1892.00 ft      Total Volume: 23.190 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

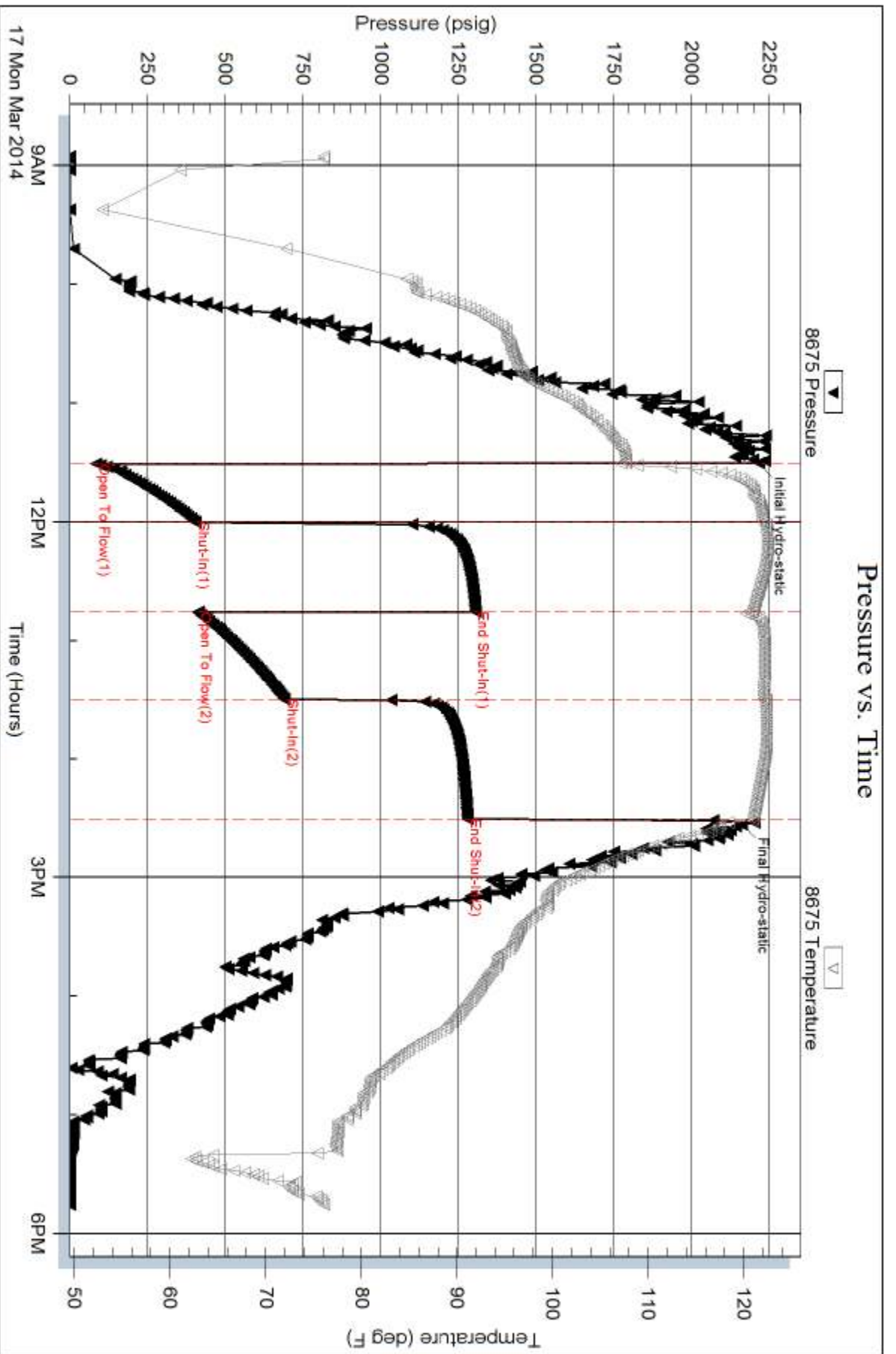
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 31 @ 70 F = 30







**CONSOLIDATED**  
Oil Well Services, LLC

266485

TICKET NUMBER 47555  
LOCATION Carley, ks  
FOREMAN Dave Retzlaff

PO Box 884, Chanute, KS 66720  
820-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-12-14	7043	Edwards F. No. Unit 1	6	16	34w	Scott

CUSTOMER	MAILING ADDRESS	CITY	STATE	ZIP CODE
Russell Oil Company				

TRUCK #	DRIVER	TRUCK #	DRIVER
399	Trows		
566	hance		
Jeffrey	Acant		

Per the west to end of block 2 1/2 N E. into

JOB TYPE surface HOLE SIZE 12 1/4 HOLE DEPTH 306 CASING SIZE & WEIGHT 8 5/8 23 lbs  
 CASING DEPTH 306 DRILL PIPE 4.5 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.8 SLURRY VOL 1.34 WATER gal/blk 6.5 CEMENT LEFT in CASING 20'  
 DISPLACEMENT 18.2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on HJ Rig 1. Rig up pump truck. Break circulation with rig pump. mix 825 lbs class B 3% cc 2% gel. Displace 18 2812 of water and shut in. 622h up pump + lines cement and circulate.

Thanks Dave & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
3406	1	PUMP CHARGE	1150.00	1150.00 ✓
5406	45	MILEAGE	5.25	236.25 ✓
5407	10.5	Tea mileage Delivery	1.75	827.10 ✓
11043	225 sks	Class B cement	18.55	4173.75 ✓
1102	634	Calcium Chloride	.94	595.76 ✓
1118B	423	Bentonite	.27	114.21 ✓
			Sub	7097.27 ✓
			1032 1070	709.73 ✓
			Sub	6387.54 ✓
			8.15	SALES TAX
				ESTIMATED TOTAL
				358.24 ✓
				6745.78 ✓

completed

Rev'n 3737

AUTHORIZATION Carlos Fabola

TITLE Tool Pusher

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.

Customer Russell Oil, Incorporated	Lease No.	Date 3-20-14
Lease Edwards FG Unit	Well # 1	DV Tool
Field Order # 0141	Station Pratt, Kansas	Casing 5 1/2 15.5 lb
Type Job C.U.W.-2 Stage Long String (Top Stage)	Depth 2,436 Feet	County Scott
	Formation	State Kansas
		Legal Description 8-16W-345

PIPE DATA		PERFORATING DATA		CEMENT USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size 5 1/2	Shots/Ft 350	From 38	To 38	Cement A CON Blend	RATE 5.1 bbl/st	PRESS cell plate	ISIP 5 Min.
Depth 2,436 Feet	Volume 3.8 Bbl.	From 11.8	To 11.8	To 11.8	Chemical CUM Chloride	Max 2.77	Min R.U.F.T. 1st	10 Min.
Max Press 2,000 PSI	Max Press	From	To	To	Flush 5.8 Bbl. Fresh water	Avg		15 Min.
Well Connection Plug Con	Annulus Vol. liner	From	To	To		HHP Used		Annulus Pressure
Plug Depth 2,436 Feet	Packer Depth	From	To	To		Gas Volume		Total Load

Customer Representative Todd Brown	Station Manager Kevin Gordley	Treater Clarence R. Messick
Service Units 37216	77686	19,905
Driver James Messick	Mc Graw	Phye
19,959	19,918	

Time A.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:39	600				Open DV Tool
3:46	300			6	Start mixing 350 sacks A CON Blend Cement.
			173		Stop pumping. Shut in well. Wash pump and lines.
					Release Closing Plug. Open well.
4:14				6	Start Fresh water Displacement.
4:28	500		58		Plug down.
	2,000				Pressure up and close DV Tool
					Circulated 2.6 Bbl. cement to pit end then
					lost circulation on last 5 Bbl. of Displacement.
4:45			7-5	3	Plug Rat and mouse holes
					Wash up pump truck.
5:15					Job complete.
					Thank You
					Clarence, Mitre, Shawn, Dale

Customer Russell Oil, Incorporated	Lease No.	Date 3-20-14
Lease Edwards F.G. Unit	Well # 1	
Field Order # 10,141	Station Pratt, Kansas	Casing 5 1/2
	Depth 15.5 Lb	4788 Feet
Type Job C.N.W. - 2 Stage Long String (Bottom Stage)	County Scott	State Kansas
	Formation	Legal Description 6-16 W-34S

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Quality Size 5 1/2	Tubing Size 5 LB/FT	Shots/Ft 175	Sacks AA2	Cement with AA2	Rate .88 FT/Min	Press Loss .258	ISIP De Foamer	
Depth 4788 Feet	Depth	From .758	Gas Blk. 108	Salt .25 LB/ST	Max cell flake 5 LB/ST	Min 1.36	15 Min. G	15 Min. G
Volume 14 Bbl.	Volume	From	To 15.3	Gal. 5.46 Gal	Avg		10 Min.	
Max Press 2,000 P.S.I.	Max Press	From	To				15 Min.	
Well Connection 2 Wedge	Annulus Vol. 2	From 50	To 60	Poz to Plug Rat (30)	HFF Used Sacks	Mouse (20)	Annulus Pressure Holes	
Plug Depth 4740 Feet	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative: Todd Brown      Station Manager: Kevin Gordley      Treater: Clarence R. Messick

Service Units	37,216	7,686	19,905	19,960	21,016				
Driver Names	Messick	Mc Graw	Ernst						

Time PM	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:45	319-14				Trucks on location and hold safety meeting
10:50					H2 Drilling start to run Auto Fill Float Shoe. Shoe Joint With Latch Down Baffle screwed into collar and a total of 11 Joints new 155 LB/FT. 5 1/2" casing. A Turbolizer was installed on Collars # 1, 4, 7, 10, 13, 17, 20 and # 5T. A Basket was installed above collar # 5S. A Weatherford 2 stage Tool was installed in collar # 56er 2,436 Feet down from Surface.
1:25					Casing in Well. Circulate and Rotate for 1 hour.
2:28		2,000			Shut in Well. Pressure Test Open Well.
2:31	300			6	Start Fresh Water Pre Flush.
			15	6	Start Super Flush II.
			39	6	Start Fresh Water spacer.
2:40	300		42	5	Start mixing 175 sacks AA2 Blend cement
2:49	-2		84		stop pumping Insert Latch Down Plug into casing. Wash pump and lines.
2:56	150		60	6	Start Fresh Water Displacement
3:07	150		60	6	Start Drilling mud Displacement
3:18	700		113		Plug down.
	2,000				Pressure up.
					Release pressure Float Shoe held.
3:28					Release DV Tool opening Device
					Install Plug Container with closing Plug in it.