

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	BEN WIELAND 14-1
Doc ID	1579978

All Electric Logs Run

Micro Resistivity Log
Induction
Dual Comp
Radial Bond Log

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Well Name	BEN WIELAND 14-1
Doc ID	1579978

Tops

Name	Top	Datum
Anhydrite	2567	481
Base Anhydrite	2596	452
Topeka	3804	-756
Heebner	4025	-977
Toronto	4046	-998
Lansing	4064	-1016
Muncie Creek	4196	-1148
Stark Sale	4278	-1230
Base KC	4338	-1290
Marmaton	4370	-1322
Pawnee	4468	-1420
Myrick Station	4501	-1456
Ft. Scott	4528	-1480
Cherokee Sh.	4556	-1508
Johnson Zn.	4595	-1547
Morrow Sh.	4618	-1570
Patterson Sd.	4634	-1586
RTD	4718	-1670
LTD	4718	-1670





Customer	Russell Oil	Lease & Well #	Ben Wieland 14-1		Date	6/18/2021	
Service District	Oakley KS	County & State	Logan KS	Legals S/T/R	14-11S-33W	Job #	
Job Type	2 Stage	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures					

914	Jlrmie	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input type="checkbox"/> Warning Signs & Flagging
180/520	Spencer	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection
194/254	Hugo	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations
242	Hugo	<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below	

Comments	

Product/Service Code	Description	Unit of Measure	Quantity	Net Amount
CP030	H-Long	sack	175.00	\$4,312.00
CP025	H-Con	sack	350.00	\$6,468.00
CP055	H-Plug	sack	30.00	\$343.20
FE130	5 1/2" Cement Basket	ea	2.00	\$528.00
FE135	5 1/2" Turbolizer	ea	7.00	\$492.80
FE145	5 1/2" Float Shoe - AFU Flapper Type	ea	1.00	\$330.00
FE150	5 1/2" DV Tool - 2 Stage	ea	1.00	\$4,400.00
FE170	5 1/2" Latch Down Plug & Baffle	ea	1.00	\$308.00
CP170	Mud Flush	gal	1,000.00	\$880.00
M015	Light Equipment Mileage	mi	5.00	\$8.80
M010	Heavy Equipment Mileage	mi	5.00	\$17.80
M025	Ton Mileage - Minimum	each	1.00	\$264.00
C035	Cement Data Acquisition	job	1.00	\$220.00
C050	Cement Plug Container	job	1.00	\$220.00
C020	Cement Pump - Multi Stage Service	ea	1.00	\$2,200.00
C040	Casing Swivel	job	1.00	\$264.00

Customer Section: On the following scale how would you rate Hurricane Services Inc ?		Net:	\$21,256.40
Based on this job, how likely is it you would recommend HSI to a colleague?		Total Taxable \$	-
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <small>Extremely Likely</small>		Tax Rate:	
<small>State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.</small>		Sale Tax:	\$ -
		Total:	\$ 21,256.40
HSI Representative:			

**TERMS:** Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X \_\_\_\_\_ **CUSTOMER AUTHORIZATION SIGNATURE**



**CEMENT TREATMENT REPORT**

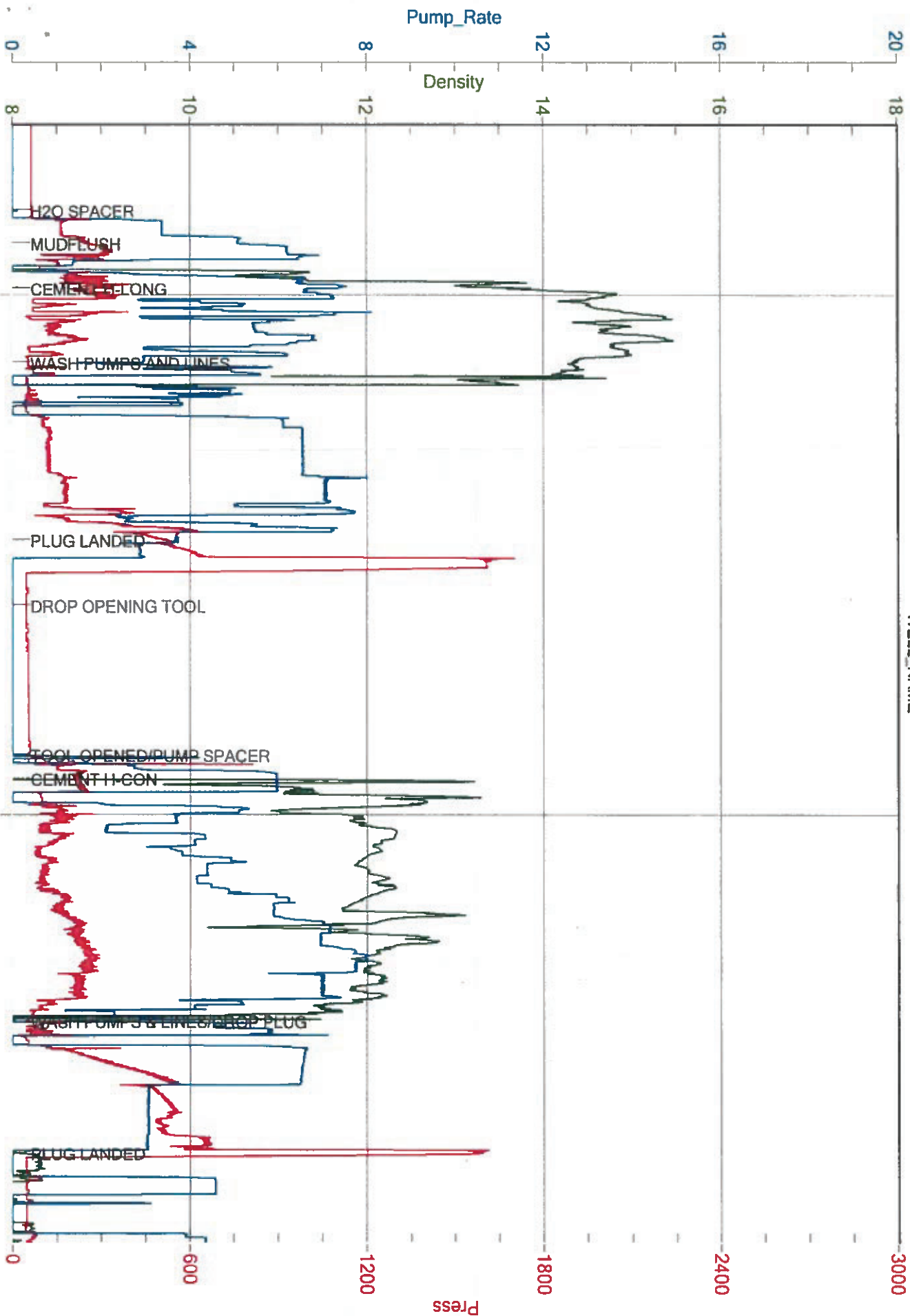
Customer: <b>Russell Oil</b>	Well: <b>Ben Wieland 14-1</b>	Ticket: <b>WP 1497</b>
City, State:	County: <b>Logan KS</b>	Date: <b>6/18/2021</b>
Field Rep: <b>Jimmie</b>	S-T-R: <b>14-11S-33W</b>	Service: <b>2 Stage</b>

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	<b>7 7/8 in</b>	Blend:	<b>H-LONG</b>	Blend:	<b>H-CON</b>
Hole Depth:	<b>4750 ft</b>	Weight:	<b>15.3 ppg</b>	Weight:	<b>11.6 ppg</b>
Casing Size:	<b>5 1/2 in</b>	Water / Sx:	<b>5.5 gal / sx</b>	Water / Sx:	<b>16.8 gal / sx</b>
Casing Depth:	<b>4713 ft</b>	Yield:	<b>1.36 ft<sup>3</sup> / sx</b>	Yield:	<b>2.77 ft<sup>3</sup> / sx</b>
Tubing / Liner:	<b>in</b>	Annular Bbls / Ft.:	<b>bbs / ft.</b>	Annular Bbls / Ft.:	<b>bbs / ft.</b>
Depth:	<b>ft</b>	Depth:	<b>ft</b>	Depth:	<b>ft</b>
Tool / Packer:		Annular Volume:	<b>0.0 bbls</b>	Annular Volume:	<b>0 bbls</b>
Tool Depth:	<b>ft</b>	Excess:		Excess:	
Displacement:	<b>111.5 bbls</b>	Total Slurry:	<b>42.4 bbls</b>	Total Slurry:	<b>172.7 bbls</b>
		Total Sacks:	<b>175 sx</b>	Total Sacks:	<b>350 sx</b>

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
1030A			-	-	ON LOCATION GOT THE FOLLOWING INFORMATION - 5 1/2 15.5# CASING, RACK VERIFIED, TD 4750, 25.5 FT SHOE JT
					PIPE SET @ 4713, TURBOS ON 3,6,8,13,16,19,52 BASKETS ON JTS 10,50 DV TOOL ON 51 SET @ 2593
200P					CASING ON BOTTOM
200P					CIRCULATE
235P	5.0	300.0	5.0	5.0	H2O AHEAD
237P	4.0	300.0	10.0	15.0	MUDFLUSH
240P	4.0	300.0	5.0	20.0	H2O SPACER
242P	6.0	200.0	42.4	62.4	CEMENT 175 SX H-LONG MIXED AT 15.3 PPG MUD SCALE VERIFIED
300P				62.4	SHUT DOWN WASH PUMPS & LINES DROP PLUG
308P	6.5	350.0	50.0	112.4	DISPLACE H2O
320P	6.5	500.0	61.5	173.9	DISPLACE MUD
330P		1,600.0			PLUG LANDED
333P					RELEASE FLOAT HELD
340P					DROP BOMB
400P		800.0			OPEN TOOL FOR 2ND STAGE
401P	6.0	200.0	5.0		H2O AHEAD
402P	6.0	200.0	10.0		MUDFLUSH
404P	6.0	200.0	7.5		PLUG RATHOLE 30 SX H-PLUG
405P	7.0	250.0	172.6		CEMENT 350 SX H-CON MIXED @ 11.6 PPG MUD SCALE VERIFIED
435P					SHUT DOWN WASH PUMPS & LINES DROP PLUG
436P	6.0	275.0	41.0		DISPLACE H2O
444P					CEMENT CIRCULATE TO PIT 20 BBLs
450P	3.0	500.0	20.7		DISPLACE H2O
500P		1,600.0			PLUG LANDED
510P					WASH UP/RIG DOWN
600P					LEFT LOCATION

CREW		UNIT	SUMMARY		
Cementer:	Jimmie	914	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Spencer	180/520	5.5 bpm	605 psi	431 bbls
Bulk #1:	Hugo	194/254			
Bulk #2:	Hugo	242			

CUSTOMER  
WELL NAME



Job Started On: 06/22/2021 @ 10:57:01 PM



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

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

No. 1795

Date	6-9-21	Sec.	14	Twp.	11	Range	32	County	Logan	State	Ks	On Location		Finish	1:00 PM
------	--------	------	----	------	----	-------	----	--------	-------	-------	----	-------------	--	--------	---------

Ben Wieland  
Lease ~~Bertrand~~ #14-1  
Well No. \_\_\_\_\_  
Owner \_\_\_\_\_  
Location 25 OAKLEY

Contractor W & W 110  
Type Job SURFACE  
Owner To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/2" T.D. 323  
Charge To Russell Oil

Csq. 8 1/2" Depth 322  
Street \_\_\_\_\_

Tbg. Size \_\_\_\_\_ Depth \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_

Tool \_\_\_\_\_ Depth \_\_\_\_\_  
The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csq. 15 Shoe Joint \_\_\_\_\_  
Cement Amount Ordered 180A 8/20 3-2

Meas Line \_\_\_\_\_ Displace 19 1/2

EQUIPMENT			Common
Pumptrk	5	No. Cementer Helper	145
Bulktrk		No. Driver	Poz. Mix 35
Bulktrk	14	No. Driver Tony	Gel. 3
			Calcium 7

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
Run 8 JTS of RF set @ 322		Handling 190
Cement w/ 180A		Mileage
pump plug w/ 1 1/2 661		
Cement did circ.		

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Thank  
Pumptrk Charge SURFACE  
Mileage 15 (min)

Signature *Rick [Signature]*  
Tax \_\_\_\_\_  
Discount \_\_\_\_\_  
Total Charge \_\_\_\_\_

Thanks  
*[Signature]*



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 June  
**13**  
 2021

**DST #1**      **Formation: LKC "E-  
 F"**      **Test Interval: 4132 -  
 4163'**      **Total Depth: 4163'**  
 Time On: 07:25 06/13      Time Off: 16:11 06/03  
 Time On Bottom: 09:37 06/13      Time Off Bottom: 12:37 06/13

Electronic Volume  
 Estimate:  
 89'

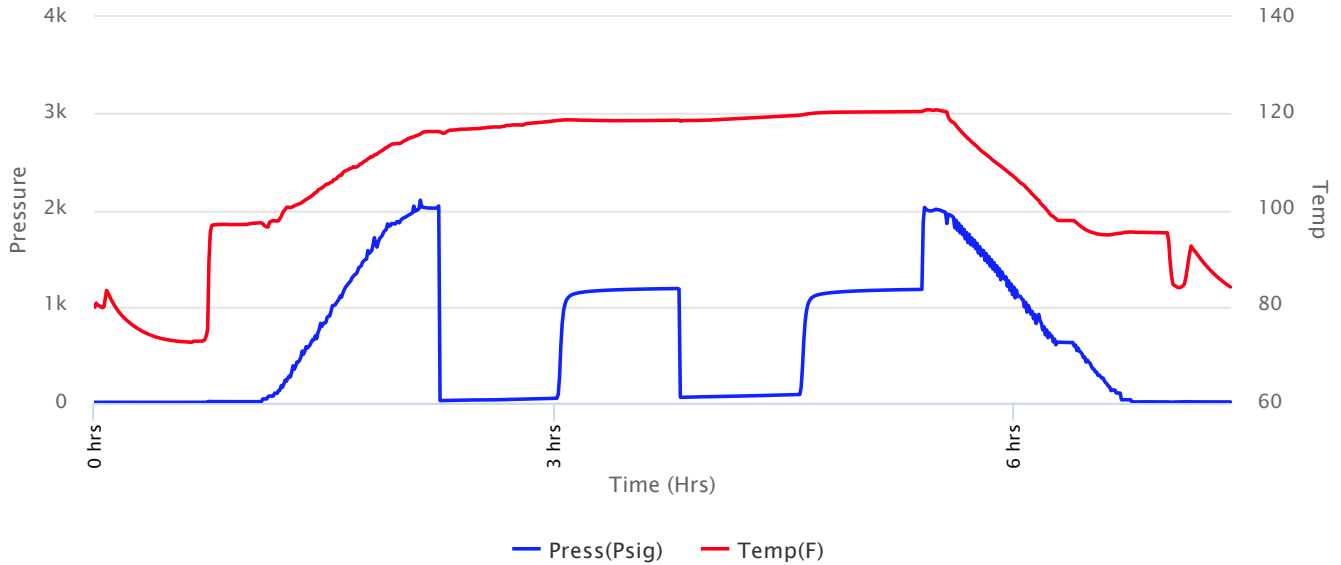
1st Open  
 Minutes: 45  
 Current Reading:  
 1.7" at 45 min  
 Max Reading: 1.7"

1st Close  
 Minutes: 45  
 Current Reading:  
 0" at 45 min  
 Max Reading: 0"

2nd Open  
 Minutes: 45  
 Current Reading:  
 1.1" at 45 min  
 Max Reading: 1.1"

2nd Close  
 Minutes: 45  
 Current Reading:  
 0" at 45 min  
 Max Reading: 0"

Inside Recorder





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 Time On: 07:25 06/13      Time Off: 16:11 06/03  
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Recovered

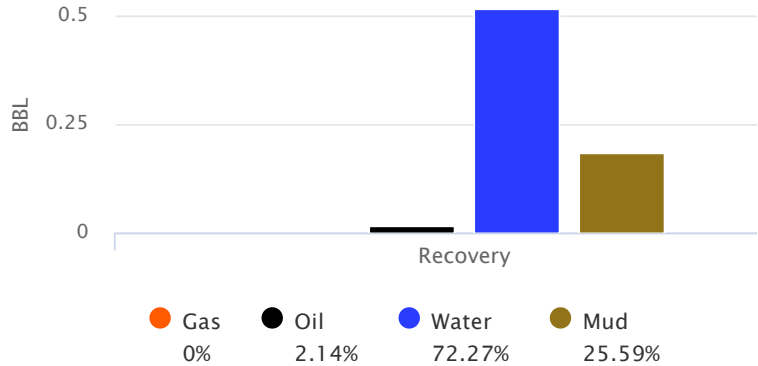
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
25	0.123	SLOCHWCM	0	5	45	50
60	0.2952	SLOCMCW	0	3	69	28
60	0.2952	SLMCW (trace O)	0	.1	86.9	13

Total Recovered: 145 ft  
 Total Barrels Recovered: 0.7134

Reversed Out  
 NO

Initial Hydrostatic Pressure	2022	PSI
Initial Flow	25 to 45	PSI
<b>Initial Closed in Pressure</b>	<b>1185</b>	<b>PSI</b>
Final Flow Pressure	59 to 86	PSI
<b>Final Closed in Pressure</b>	<b>1175</b>	<b>PSI</b>
Final Hydrostatic Pressure	2000	PSI
Temperature	121	°F
Pressure Change Initial Close / Final Close	0.8	%

**Recovery at a glance**



GIP cubic foot volume: 0



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API #: 15-109-21611

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**BUCKET MEASUREMENT:**

1st Open: Surface Blow built to 1 3/4" over 45 minutes.  
1st Close: No Return Blow over 45 minutes.  
2nd Open: Weak Surface Blow started at 13 min. 45 sec. Built to 1 1/8" over 45 min.  
2nd Close: No Return Blow over 45 minutes.

**REMARKS:**

Tool Sample: 0% Gas .1% Oil 64.9% Water 35% Mud

Ph: 7

Measured RW: .13 @ 92 degrees °F

RW at Formation Temp: 0.1 @ 121 °F

Chlorides: 42000 ppm



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**Down Hole Makeup**

<b>Heads Up:</b> 21.25 FT	<b>Packer 1:</b> 4127 FT
<b>Drill Pipe:</b> 3938.04 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4132 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4116.42 FT
<b>Collars:</b> 182.64 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4161 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 31	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 27 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
June  
**13**  
2021

**DST #1**      **Formation: LKC "E-  
F"**      **Test Interval: 4132 -  
4163'**      **Total Depth: 4163'**  
Time On: 07:25 06/13      Time Off: 16:11 06/03  
Time On Bottom: 09:37 06/13      Time Off Bottom: 12:37 06/13

**Mud Properties**

**Mud Type:** Chem.      **Weight:** 9.1      **Viscosity:** 51      **Filtrate:** 8.0      **Chlorides:** 2000 ppm



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 June  
**13**  
 2021

**DST #1**      **Formation: LKC "E-  
 F"**      **Test Interval: 4132 -  
 4163'**      **Total Depth: 4163'**  
 Time On: 07:25 06/13      Time Off: 16:11 06/03  
 Time On Bottom: 09:37 06/13      Time Off Bottom: 12:37 06/13

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 June  
**14**  
 2021

**DST #2    Formation: LKC "H"    Test Interval: 4196 - 4228'    Total Depth: 4228'**

Time On: 00:52 06/14    Time Off: 07:59 06/14  
 Time On Bottom: 03:35 06/14    Time Off Bottom: 06:05 06/14

Electronic Volume  
 Estimate:  
 23'

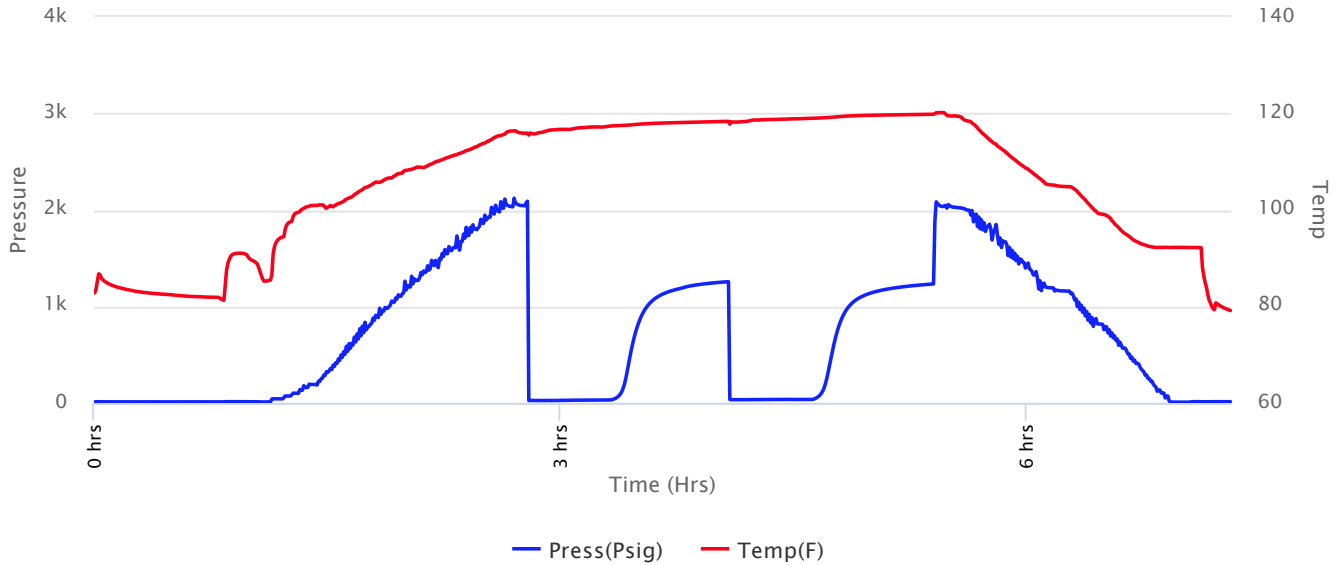
1st Open  
 Minutes: 30  
 Current Reading:  
 .7" at 30 min  
 Max Reading: .7"

1st Close  
 Minutes: 45  
 Current Reading:  
 0" at 45 min  
 Max Reading: 0"

2nd Open  
 Minutes: 30  
 Current Reading:  
 0" at 30 min  
 Max Reading: 0"

2nd Close  
 Minutes: 45  
 Current Reading:  
 0" at 45 min  
 Max Reading: 0"

Inside Recorder







**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 June  
**14**  
 2021

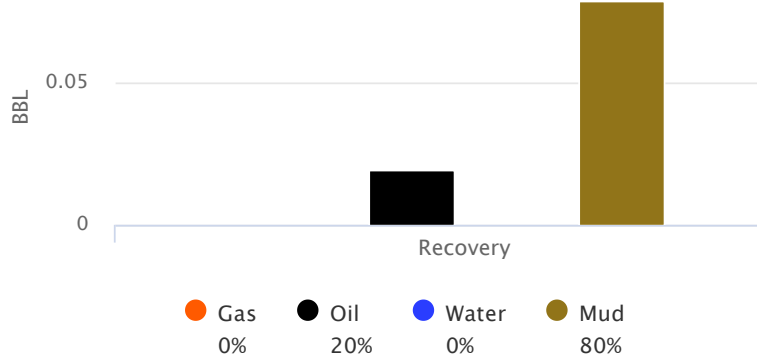
**DST #2**    **Formation: LKC "H"**    **Test Interval: 4196 - 4228'**    **Total Depth: 4228'**  
 Time On: 00:52 06/14    Time Off: 07:59 06/14  
 Time On Bottom: 03:35 06/14    Time Off Bottom: 06:05 06/14

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
20	0.0984	OCM	0	20	0	80

Total Recovered: 20 ft  
 Total Barrels Recovered: 0.0984

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	2042	PSI
Initial Flow	26 to 30	PSI
<b>Initial Closed in Pressure</b>	<b>1256</b>	<b>PSI</b>
Final Flow Pressure	33 to 36	PSI
<b>Final Closed in Pressure</b>	<b>1230</b>	<b>PSI</b>
Final Hydrostatic Pressure	2041	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	2.1	%

GIP cubic foot volume: 0



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
June  
**14**  
2021

**DST #2      Formation: LKC "H"      Test Interval: 4196 -      Total Depth: 4228'**  
**4228'**  
Time On: 00:52 06/14      Time Off: 07:59 06/14  
Time On Bottom: 03:35 06/14      Time Off Bottom: 06:05 06/14

**BUCKET MEASUREMENT:**

1st Open: Surface Blow built to 3/4" over 30 minutes.  
1st Close: No Return Blow over 45 minutes.  
2nd Open: No Blow over 30 minutes.  
2nd Close: No Return Blow over 45 minutes.

**REMARKS:**

Tool Sample: 0% Gas 10% Oil 0% Water 90% Mud









**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 June  
**14**  
 2021

**DST #3**      **Formation: LKC "I-J"**      **Test Interval: 4230 - 4284'**      **Total Depth: 4284'**  
 Time On: 20:10 06/14      Time Off: 05:26 06/15  
 Time On Bottom: 23:38 06/14      Time Off Bottom: 02:38 06/15

Electronic Volume Estimate:  
 873'

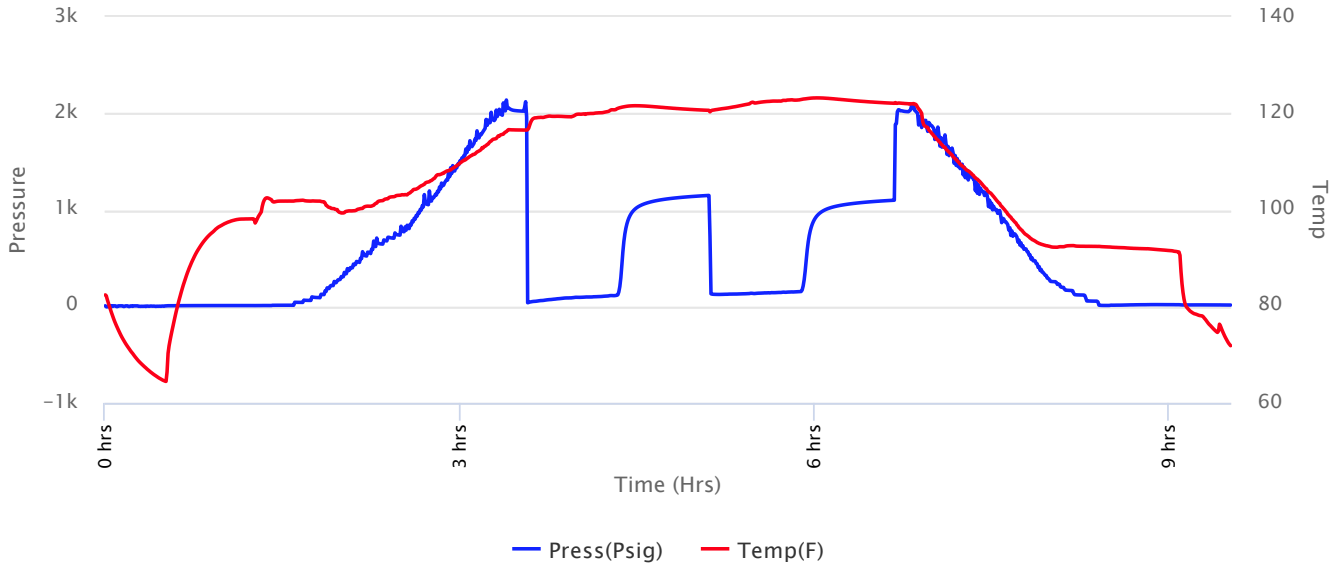
1st Open  
 Minutes: 45  
 Current Reading: 37.7" at 45 min  
 Max Reading: 37.7"

1st Close  
 Minutes: 45  
 Current Reading: 1" at 45 min  
 Max Reading: 1.7"

2nd Open  
 Minutes: 45  
 Current Reading: 30.2" at 45 min  
 Max Reading: 30.2"

2nd Close  
 Minutes: 45  
 Current Reading: .9" at 45 min  
 Max Reading: .9"

Inside Recorder





**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 June  
**14**  
 2021

**DST #3**      **Formation: LKC "I-  
 J"**      **Test Interval: 4230 -  
 4284'**      **Total Depth: 4284'**  
 Time On: 20:10 06/14      Time Off: 05:26 06/15  
 Time On Bottom: 23:38 06/14      Time Off Bottom: 02:38 06/15

Recovered

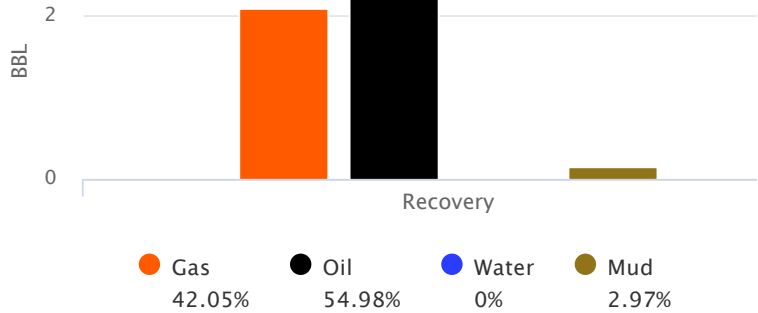
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
126	1.79298	G	100	0	0	0
303	2.9837116	SLGCO	10	90	0	0
10	0.0492	SLOCM	0	10	0	90
30	0.1476	HOCM	0	30	0	70

Total Recovered: 469 ft  
 Total Barrels Recovered: 4.9734916

**Reversed Out  
 NO**

Initial Hydrostatic Pressure	2024	PSI
Initial Flow	41 to 112	PSI
<b>Initial Closed in Pressure</b>	<b>1149</b>	<b>PSI</b>
Final Flow Pressure	125 to 151	PSI
<b>Final Closed in Pressure</b>	<b>1097</b>	<b>PSI</b>
Final Hydrostatic Pressure	2022	PSI
Temperature	124	°F
Pressure Change Initial Close / Final Close	4.5	%

**Recovery at a glance**



GIP cubic foot volume: 11.74189



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
June  
**14**  
2021

**DST #3**      **Formation: LKC "I-  
J"**      **Test Interval: 4230 -  
4284'**      **Total Depth: 4284'**  
Time On: 20:10 06/14      Time Off: 05:26 06/15  
Time On Bottom: 23:38 06/14      Time Off Bottom: 02:38 06/15

**BUCKET MEASUREMENT:**

1st Open: BoB in 15 minutes 37 seconds

1st Close: Weak surfac Return started at 3 min. Built to 1 3/4". Then died back to 1" over 45 min.

2nd Open: BoB in 14 minutes 53 seconds.

2nd Close: Surface Return started at 4 minutes 19 seconds. Built to 1 1/4", then died back to 1" over 45 minutes.

**REMARKS:**

Tool Sample: 0% Gas 25% Oil 10% Water 65% Mud

Gravity: 37.2 @ 60 °F





**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 June  
**14**  
 2021

**DST #3**      **Formation: LKC "I-  
 J"**      **Test Interval: 4230 -  
 4284'**      **Total Depth: 4284'**  
 Time On: 20:10 06/14      Time Off: 05:26 06/15  
 Time On Bottom: 23:38 06/14      Time Off Bottom: 02:38 06/15

**Down Hole Makeup**

<b>Heads Up:</b> 10.68 FT	<b>Packer 1:</b> 4225.19 FT
<b>Drill Pipe:</b> 4033.07 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4230.19 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4217.19 FT
<b>Collars:</b> 182.64 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4282 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 53.81	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 17 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.81 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
June  
**14**  
2021

**DST #3**      **Formation: LKC "I-  
J"**      **Test Interval: 4230 -  
4284'**      **Total Depth: 4284'**  
Time On: 20:10 06/14      Time Off: 05:26 06/15  
Time On Bottom: 23:38 06/14      Time Off Bottom: 02:38 06/15

**Mud Properties**

**Mud Type:** Chem.      **Weight:** 9.4      **Viscosity:** 55      **Filtrate:** 9.6      **Chlorides:** 2500 ppm



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 June  
**14**  
 2021

**DST #3**      **Formation: LKC "I-  
 J"**      **Test Interval: 4230 -  
 4284'**      **Total Depth: 4284'**  
 Time On: 20:10 06/14      Time Off: 05:26 06/15  
 Time On Bottom: 23:38 06/14      Time Off Bottom: 02:38 06/15

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



# Company: Russell Oil, Inc Lease: Ben Wieland #14-1

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Test Complete

**DATE**  
June  
**15**  
2021

**DST #4**    **Formation: LkC "K"**    **Test Interval: 4278 - 4312'**    **Total Depth: 4312'**

Time On: 12:00 06/15    Time Off: 19:14 06/15  
Time On Bottom: 14:16 06/15    Time Off Bottom: 16:46 06/15

Electronic Volume  
Estimate:  
3'

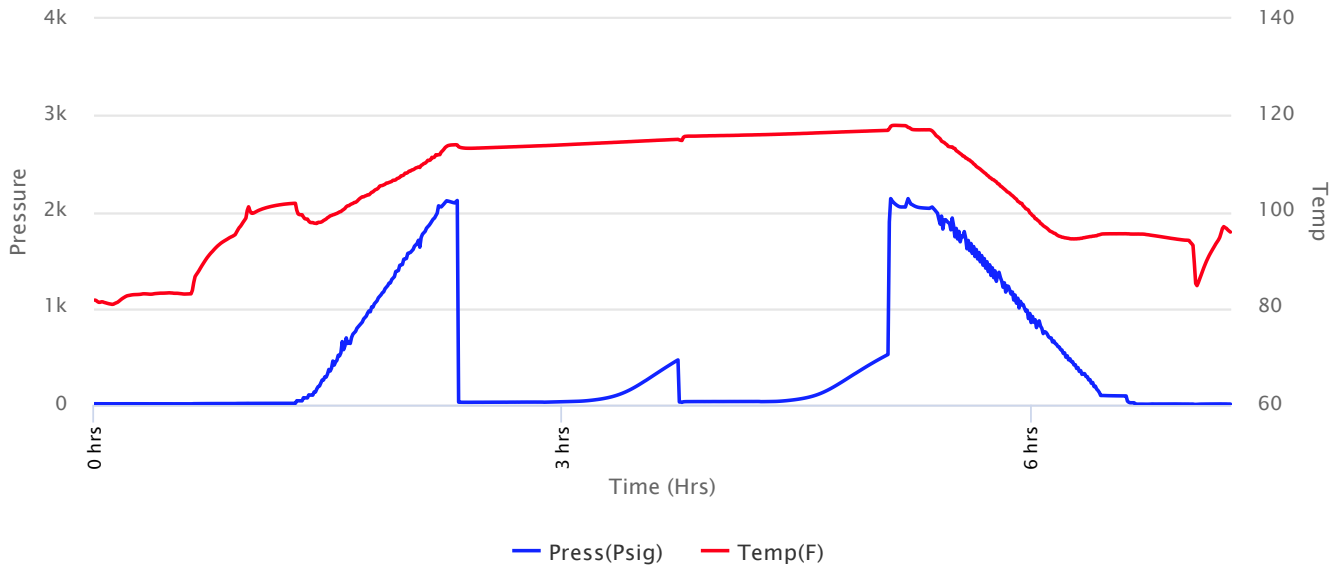
1st Open  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: .1"

1st Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

2nd Open  
Minutes: 30  
Current Reading:  
0" at 30 min  
Max Reading: 0"

2nd Close  
Minutes: 45  
Current Reading:  
0" at 45 min  
Max Reading: 0"

Inside Recorder





**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Test Complete

**DATE**  
 June  
**15**  
 2021

**DST #4**      **Formation: LkC "K"**      **Test Interval: 4278 - 4312'**      **Total Depth: 4312'**  
 Time On: 12:00 06/15      Time Off: 19:14 06/15  
 Time On Bottom: 14:16 06/15      Time Off Bottom: 16:46 06/15

Recovered

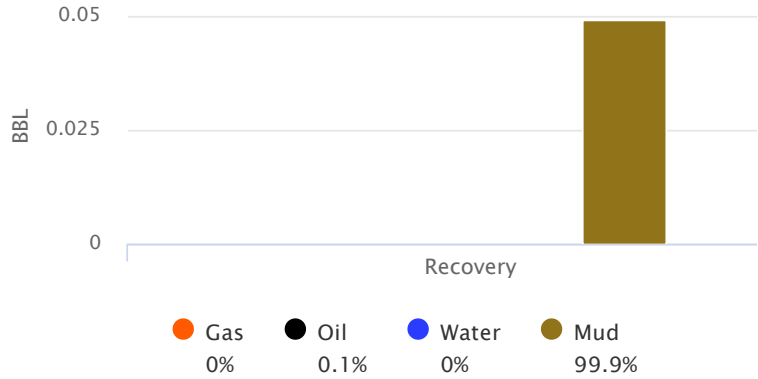
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
10	0.0492	M (trace O)	0	.1	0	99.9

Total Recovered: 10 ft  
 Total Barrels Recovered: 0.0492

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	2095	PSI
Initial Flow	26 to 32	PSI
<b>Initial Closed in Pressure</b>	<b>457</b>	<b>PSI</b>
Final Flow Pressure	31 to 34	PSI
<b>Final Closed in Pressure</b>	<b>499</b>	<b>PSI</b>
Final Hydrostatic Pressure	2049	PSI
Temperature	117	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Test Complete

**DATE**  
June  
**15**  
2021

**DST #4      Formation: LkC "K"      Test Interval: 4278 -      Total Depth: 4312'**  
**4312'**  
Time On: 12:00 06/15      Time Off: 19:14 06/15  
Time On Bottom: 14:16 06/15      Time Off Bottom: 16:46 06/15

**BUCKET MEASUREMENT:**

1st Open: Weak Surface Blow died in 18 minutes. 42 seconds.  
1st Close: No Return Blow.  
2nd Open: No Blow - flushed tool - No Blow  
2nd Close: No Return Blow.

**REMARKS:**

Tool Sample: 0% Gas .1% Oil 0% Water 99.9% Mud



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling  
 Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Test Complete

**DATE**  
 June  
**15**  
 2021

**DST #4      Formation: LkC "K"      Test Interval: 4278 - 4312'      Total Depth: 4312'**  
 Time On: 12:00 06/15      Time Off: 19:14 06/15  
 Time On Bottom: 14:16 06/15      Time Off Bottom: 16:46 06/15

**Down Hole Makeup**

<b>Heads Up:</b> 26.61 FT	<b>Packer 1:</b> 4273 FT
<b>Drill Pipe:</b> 4096.81 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4278 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4265 FT
<b>Collars:</b> 182.64 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4310 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 34	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 30 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Test Complete

**DATE**  
June  
**15**  
2021

**DST #4**      **Formation: LkC "K"**      **Test Interval: 4278 - 4312'**      **Total Depth: 4312'**

Time On: 12:00 06/15      Time Off: 19:14 06/15  
Time On Bottom: 14:16 06/15      Time Off Bottom: 16:46 06/15

**Mud Properties**

**Mud Type:** Chem.      **Weight:** 9.2      **Viscosity:** 56      **Filtrate:** 8.0      **Chlorides:** 2600 ppm







**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 June  
**16**  
 2021

**DST #5**    **Formation: Johnson**    **Test Interval: 4575 - 4620'**    **Total Depth: 4620'**  
 Time On: 23:17 06/16    Time Off: 06:57 06/17  
 Time On Bottom: 01:46 06/17    Time Off Bottom: 04:31 06/17

Electronic Volume Estimate:  
 7'

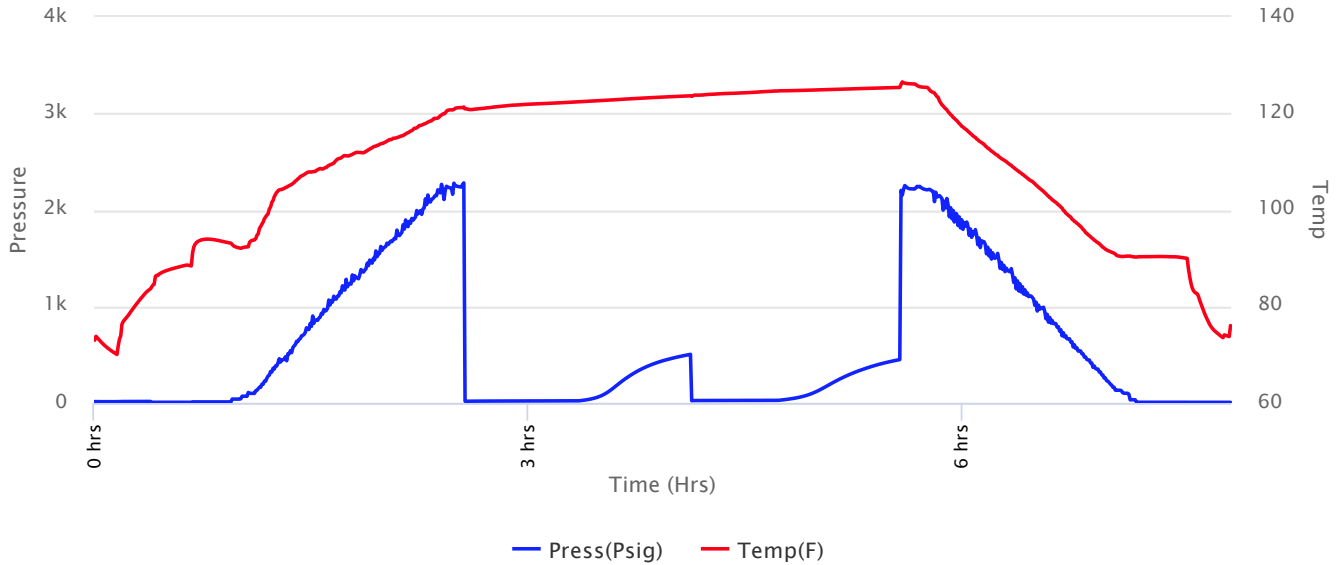
1st Open  
 Minutes: 45  
 Current Reading: .1" at 45 min  
 Max Reading: .2"

1st Close  
 Minutes: 45  
 Current Reading: 0" at 45 min  
 Max Reading: 0"

2nd Open  
 Minutes: 30  
 Current Reading: 0" at 30 min  
 Max Reading: 0"

2nd Close  
 Minutes: 45  
 Current Reading: 0" at 45 min  
 Max Reading: 0"

Inside Recorder





**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
 County: LOGAN  
 State: Kansas  
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 110  
 Elevation: 3043 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 471  
 API #: 15-109-21611

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 June  
**16**  
 2021

**DST #5**    **Formation: Johnson**    **Test Interval: 4575 - 4620'**    **Total Depth: 4620'**  
 Time On: 23:17 06/16    Time Off: 06:57 06/17  
 Time On Bottom: 01:46 06/17    Time Off Bottom: 04:31 06/17

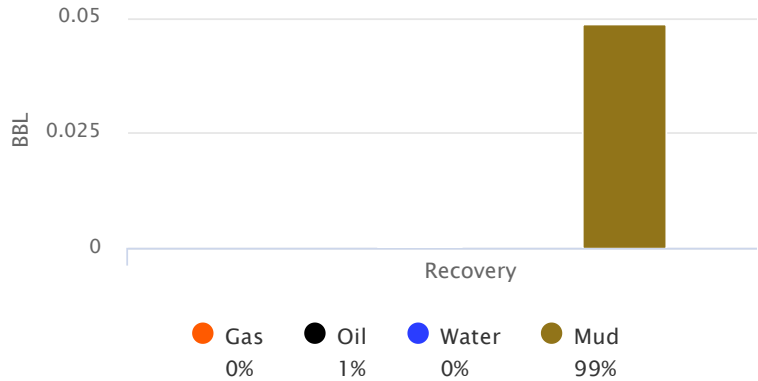
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.0492	SLOCM	0	1	0	99

Total Recovered: 10 ft  
 Total Barrels Recovered: 0.0492

Reversed Out  
 NO

Initial Hydrostatic Pressure	2238	PSI
Initial Flow	18 to 22	PSI
<b>Initial Closed in Pressure</b>	<b>503</b>	<b>PSI</b>
Final Flow Pressure	24 to 27	PSI
<b>Final Closed in Pressure</b>	<b>441</b>	<b>PSI</b>
Final Hydrostatic Pressure	2218	PSI
Temperature	126	°F
Pressure Change Initial Close / Final Close	12.4	%

**Recovery at a glance**



GIP cubic foot volume: 0



**Company: Russell Oil, Inc**  
**Lease: Ben Wieland #14-1**

SEC: 14 TWN: 11S RNG: 32W  
County: LOGAN  
State: Kansas  
Drilling Contractor: Murfin Drilling  
Company, Inc - Rig 110  
Elevation: 3043 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 471  
API #: 15-109-21611

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
June  
**16**  
2021

**DST #5      Formation: Johnson      Test Interval: 4575 -      Total Depth: 4620'**  
**4620'**  
Time On: 23:17 06/16      Time Off: 06:57 06/17  
Time On Bottom: 01:46 06/17      Time Off Bottom: 04:31 06/17

**BUCKET MEASUREMENT:**

1st Open: Weak Surface Blow built to 1/4" then died back to Surface Blow over 45 minutes.

1st Close: No Return Blow over 45 minutes.

2nd Open: No Blow - flushed tool - Surface Blow died in 10 minutes.

2nd Close: No Return Blow over 30 minutes.

**REMARKS:**

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



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**Down Hole Makeup**

<b>Heads Up:</b> 14.88 FT	<b>Packer 1:</b> 4570.23 FT
<b>Drill Pipe:</b> 4382.31 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4575.23 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4562.23 FT
<b>Collars:</b> 182.64 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4615 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 44.77	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 5 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.77 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 6 FT <i>4 1/2-FH</i>	





# KITT NOAH

PETROLEUM GEOLOGIST  
Kansas License #229



## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

ELEVATION:	KB 3048
GL: 3043	
MEASURED FROM:	KB
#15-109-21.611	

OPERATOR: Russell Oil, Inc.  
LEASE: Ben Wieland WELL NO.: #14-1  
LOCATION: 455'FS & 435'EW  
SEC: 14 TWP: 11S RNG: 32W  
COUNTY: Logan STATE: Kansas

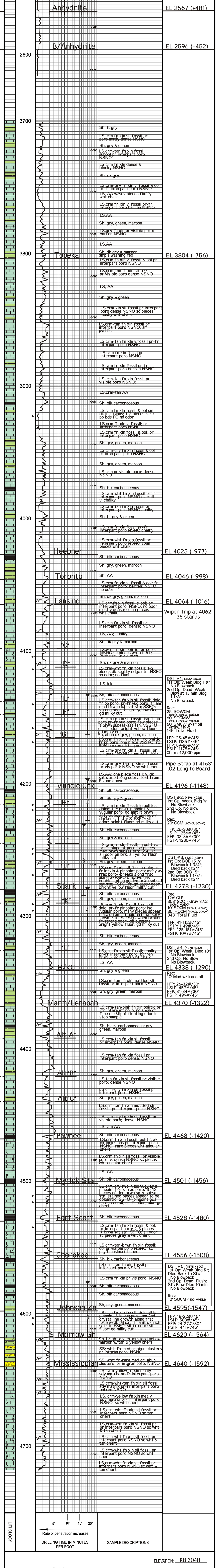
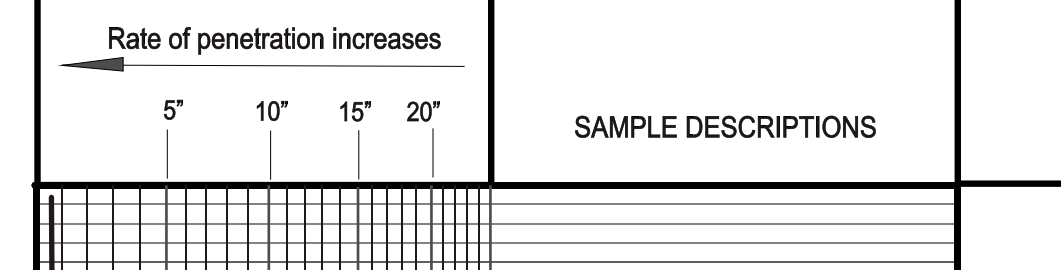
CASING RECORD:  
SURFACE: 8.5/8" set at 333 w/180 SX.  
PRODUCTION: 5.1/2" set at 4713' w/175 SX.  
DY TOOL: 2593 w/350 SX

FORMATION	LOG DATA
Anhydrite	2667 (+481)
B/Anhydrite	2896 (+482)
Heedler	4025 (-977)
Toronto	4046 (-998)
Lansing	4064 (-1016)
Stark	4287 (-1230)
B/KC	4338 (-1290)
Marmaton	4370 (-1322)
Pawnee	4468 (-1420)
Cherokee	4556 (-1508)
Mississippian	4640 (-1592)
KID	4718 (-1670)
LTD	4718 (-1670)

CONTRACTOR: Murfin Drilling Rig #110  
COMM: 6-9-2021 COMPI: 6-18-2021  
RTD: 4718 LTD: 4718  
SAMPLING TIME SAVED FROM: 3700 TO TD  
SAMPLING TIME SAVED FROM: 3700 TO TD  
SAMPLING TIME SAVED FROM: 3700 TO TD  
GEOLOGICAL SUPERVISION FROM: 3800 TO TD  
MUD UP: 3900 MUD TYPE: chemical  
Mudco - Reid Atkins  
DRILL STEW TESTS TAKEN: 5  
Diamond - Kevin Mack

SURVEYS: Midwest Wireline  
Dual compensated borehole  
Dual Induction  
Microlog

### LEGEND



OPERATOR: Russell Oil, Inc. LOCATION: 455'FS & 435'EW  
LEASE: Ben Wieland WELL NO.: #14-1 SEC: 14 TWP: 11S RNG: 32W  
API: 15-109-21.611 FIELD: Wildcat COUNTY: Logan STATE: Kansas

ELEVATION: KB 3048