

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	NUSS C 2
Doc ID	1476559

All Electric Logs Run

MICRORESISTIVITY
NEUTRON SPECTRAL DENSITY
ARRAY COMPENSATED TRUE RESISTIVITY
SECTOR BOND

Form	ACO1 - Well Completion
Operator	Russell Oil, Inc.
Well Name	NUSS C 2
Doc ID	1476559

Tops

Name	Top	Datum
ANHYDRITE	908	+1008
BSE ANHYDRITE	944	+972
TOPEKA	2838	-922
HEEBNER	3066	-1150
TORONTO	3082	-1166
LANSING	3128	-1212
MUNCIE CREEK	3268	-1352
BASE KC	3368	-1452
ARBUCKLE	3370	-1456
LTD	3448	-1532
RTD	3450	-1534



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

ELEVATION: KB 1916
 GL: 1911
 MEASURED FROM: KB

#15-167-24,094

OPERATOR: Russell Oil, Inc.
 LEASE: Nuss "C" WELL NO.: #2
 LOCATION: 2115'FS & 1490'FE
 SEC.: 32 TWP.: 15S RNG.: 14W
 COUNTY: Russell STATE: Kansas

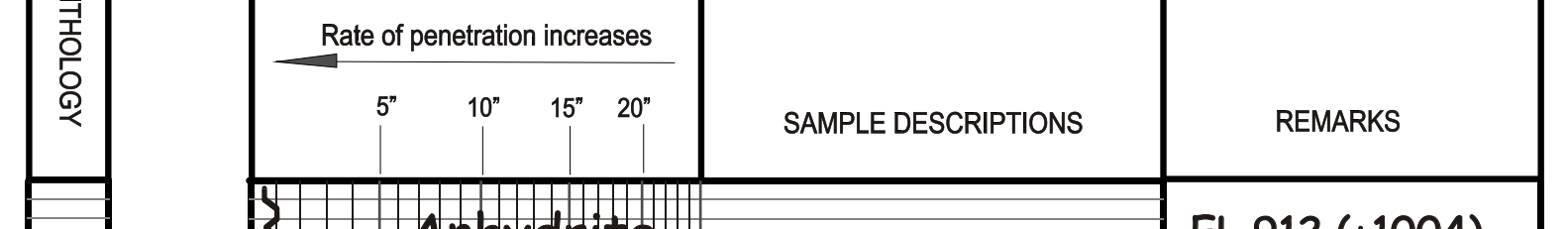
CASING RECORD:
 SURFACE: 8 5/8" set at 915' w/3175 sx.
 PRODUCTION: 4 1/2" set at 3446' w/1300 sx.
 DV/TOOL: _____

FORMATION LOG
 ANHYDRITE 912 (+1004)
 B/ANHYDRITE 948 (-968)
 TOPEKA 2838 (-922)
 HEEBNER 3082 (-1166)
 TORONTO 3128 (-1212)
 LANSING 3268 (-1352)
 MUNCIE CREEK 3368 (-1452)
 B/KC 3372 (-1456)
 ARBUCKLE 3430 (-1534)
 LTD 3448 (-1532)

CONTRACTOR: WV Drilling Rig #8
 COMM: 7-11-2019 COMPL: 7-20-2019
 RTD: 3450 LTD: 3448
 SAMPLES SAVED FROM: 2800 to TD
 DRILLING TIME SAVED FROM: 2800 to TD
 SAMPLES EXAMINED FROM: 2800 to TD
 GEO. OIGAL SUPERVISION FROM: 2800 to TD
 MUD UP: 2297 MUD TYPE: chemical
 MUDCO: early Schmidtberger
 DRILL STEM TESTS TAKEN: 7
 DIAMOND: Ricky Roy

SURVEYS: Halliburton
Spectral Density Neutron Array Compensated Resistivity Microlog

LEGEND



DEPTH	DRILLING TIME IN MINUTES PER FOOT	SAMPLE DESCRIPTIONS	REMARKS
	Rate of penetration increases 5" 10" 15" 20"		
		Anhydrite	EL 912 (+1004)
		B/Anhydrite	EL 948 (+968)
2800		LS.crm-tan fn xln sli fossil pr interpart poro NSNO Sh, gry & maroon Sh, dk gry Sh, gry	EL 2838 (-922)
2900		LS.crm-wht fn xln sli fossil pr interpart poro NSNO LS.crm-tan fn xln fossil pr-fr interpart poro NSNO LS.crm fn xln sli fossil pr visible poro dense NSNO LS.crm AA LS.crm-tan fn xln sli fossil pr visible poro NSNO LS.crm-tan fn xln sli fossil pr visible poro; v. dense NSNO LS.crm-gry fn xln mottled sli fossil pr interpart poro NSNO LS.crm-tan fn xln sli fossil pr interpart poro NSNO Sh, blk carbonaceous LS.crm-tan fn xln sm ool pr interpart poro NSNO Sh, gry, green, maroon Sh, lt. gry & green LS.crm fn xln sli fossil pr interpart poro msly dense NSNO LS.gry fn xln sli fossil pr interpart poro dense NSNO LS.crm fn xln sli fossil pr interpart poro; NSNO LS.crm AA Sh, blk carbonaceous LS.crm-gry fn xln sli fossil pr interpart poro NSNO	
3000		LS.crm fn xln oolitic; pr interpart poro; 1-2 pieces lt. med brwn subsat str; NSFO; sli odor Sh, gry, green, maroon LS.crm-gry fn xln sli fossil pr interpart poro; NSFO; sli odor on break LS.crm fn xln sli fossil pr interpart poro NSNO LS.crm-wht fn xln sli fossil pr interpart poro chalky; mealy NSNO LS.crm AA LS.crm fn xln oolitic; pr-fr interpart poro; 1-2 pieces med brwn spty str; S-FFO -- sm gas bubbles on brk; sli odor	EL 3066 (-1150)
		Heebner Sh, blk carbonaceous	
		Toronto Sh, lt gry & green; mushy; gummy	EL 3082 (-1166)
3100		LS.crm fn xln fossil; oolitic; rare iso vagular poro; pr-fr interpart poro; 1-2 pieces lt. med brwn spty str; NSFO; no odor; sc wht chert Sh, dk gry, green, maroon Sh, abun dk gry & maroon Sh, gry, green & maroon	EL 3128 (-1212)
		Lansing LS.crm-wht fn xln fossil & ool pr interpart poro; 1-2 pieces lt. brwn spty str; SSFO; sli odor Sh, gry & green "B" "C" LS.crm fn xln fossil & ool; pr-fr interpart poro; 1-2 pieces lt. brwn spty str; VSSFO -- cpl pinpoint bds FO on brk; sli gassy odor in 3150 sample LS.crm-wht fn xln v. oolitic; sm med brwn subsat; rare sat str; S-FFO; fr gassy odor LS.crm-tan fn xln sli fossil pr interpart poro; dense NSNO LS,AA Sh, blk carbonaceous LS.wht fn xln poss frac poro pr interpart poro; 1-2 pieces lt. brwn spty str; NSFO; no odor LS.crm-tan fn xln fossil; iso vuq poro; pr interpart poro; 1-2 pieces lt. brwn spty-subsat str; VSSFO; sli odor LS.tan fn xln fossil iso rare pelletoid; pr-fr interpart poro; fr amt med brwn subsat-sat str; S-FFO -- sm gas; fr gassy odor LS.crm fn xln fossil; pelletoid; dolomitic; abun ooc poro; zn grading from fossil to ooc; pr-fr ooc poro; golden brwn spty subsat str; S-FFO when broken sm gas on brk; sli-fr gassy odor LS.crm-tan fn xln sli fossil pr visible poro NSNO sc pieces mushy wht chalk LS.crm-wht fn xln sli fossil pr interpart poro NSNO LS,AA	DST #1: (3160-3180) 1st Op: BOB 27" No Blowback 2nd Op: Weak Bldg 7" No Blowback Rec: 126' GTP 1' Clean Oil 6' SWMCO (75% O, 10% W, 15% M) 228' SOGCMW (52% O, 1% W, 94% M, 10% M) 235' Total Fluid IFF: 15-84#/45" ISIP: 377#/45" FFP: 86-113#/45" FSIP: 372#/60" Chlor: 70,000 ppm
		Muncie Crk Sh, blk carbonaceous "H" LS.wht fn xln sli ool; iso pelletoid pr interpart poro; 1-2 pieces lt. med brwn spty str; NSFO; sli odor; sli-fr odor in 40" circ sample Sh, gry, green, maroon LS.crm-tan fn xln oolitic; sm poss frac poro; pr-fr pinpoint poro; golden brwn msly sat str; bright yellow fluor; S-FFO on brk; rainbow sheen; sli pungent odor; bright yellow fluor "I" "J" LS.crm fn xln fossil & subool; pr-fr interpart poro; sev pieces med brwn subsat-sat str; SSFO sli-fr odor "K" "L" LS.crm AA; 1-2 pieces subsat str; VSSFO; sli odor Sh, blk carbonaceous & dk gry "M" LS.crm fn xln subpelletoid; pr-fr interpart poro; fr amt med brwn subsat-sat str; SSFO; sli odor; no fluor "N" LS.crm fn xln ool; sm vuqular poro; dolomitic; sev pieces lt. brwn subsat-sat str; SSFO on brk; rainbow sheen; sli pungent odor; bright yellow fluor B/KC Arbuckle Sh, dk gry, kelly green, maroon Circ. 3376: Dolo, tan fn-med xln friable pr-fr sat str; SSFO; fr pungent odor; bright yellow fluor; sli odor; sli-fr odor on yellow floor; milky cut Circ. 3379: Dolo, tan fn-med xln succosic subool; med brwn sat str; S-FFO; pr bds FO on yellow floor; milky cut Circ. 3386: Dolo, crm-tan fn-med xln sm coarse succosic pr-fr ooc poro; abun med brwn sat str; S-FFO; pr bds FO on yellow floor; milky cut Dolo, crm AA; H-pungent odors; bright yellow fluor Losing show Dolo, crm-tan med xln; pr-fr intxln poro; med brwn spty-subsat str; S-FFO; rx 90% barren; sli pungent odor; sc wht chert Dolo, wht fn xln; coarse; med frac poro; pr-fr intxln poro; med brwn spty str; SSFO; no odor -- rx 90% barren Dolo, crm-tan fn xln; pr intxln poro; rx 90% barren Dolo, crm-tan AA; rx 99% barren barren; NSFO; sli pungent odor Dolo, crm-wht; pr intxln poro; iso vuqular poro; 1-2 pieces med brwn spty str; SSFO; sli pungent odor; rx 99% barren	Pipe Strap at 3180' .22 Board Long DST 2: (3190-3216) 1st Op: Weak Bldg 4 1/4" No Blowback 2nd Op: Weak Bldg 2 1/4" No Blowback Rec: 1' Clean Oil 29' SOCWM (1% O, 49% W, 50% M) 126' HMCW (65% W, 35% M) 156' Total Fluid IFF: 14-66#/45" ISIP: 276#/45" FFP: 68-82#/45" FSIP: 262#/45" Chlor: 63,000 ppm
3200		"B" "C" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"	EL 3268 (-1352)
3300		"B" "C" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"	EL 3328 (-1412)
3400		"B" "C" "E" "F" "G" "H" "I" "J" "K" "L" "M" "N" "O" "P" "Q" "R" "S" "T" "U" "V" "W" "X" "Y" "Z"	EL 3368 (-1452) EL 3372 (-1456)
	Rate of penetration increases 5" 10" 15" 20"		



Company: Russell Oil, Inc
Lease: Nuss C #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1911 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Test Complete

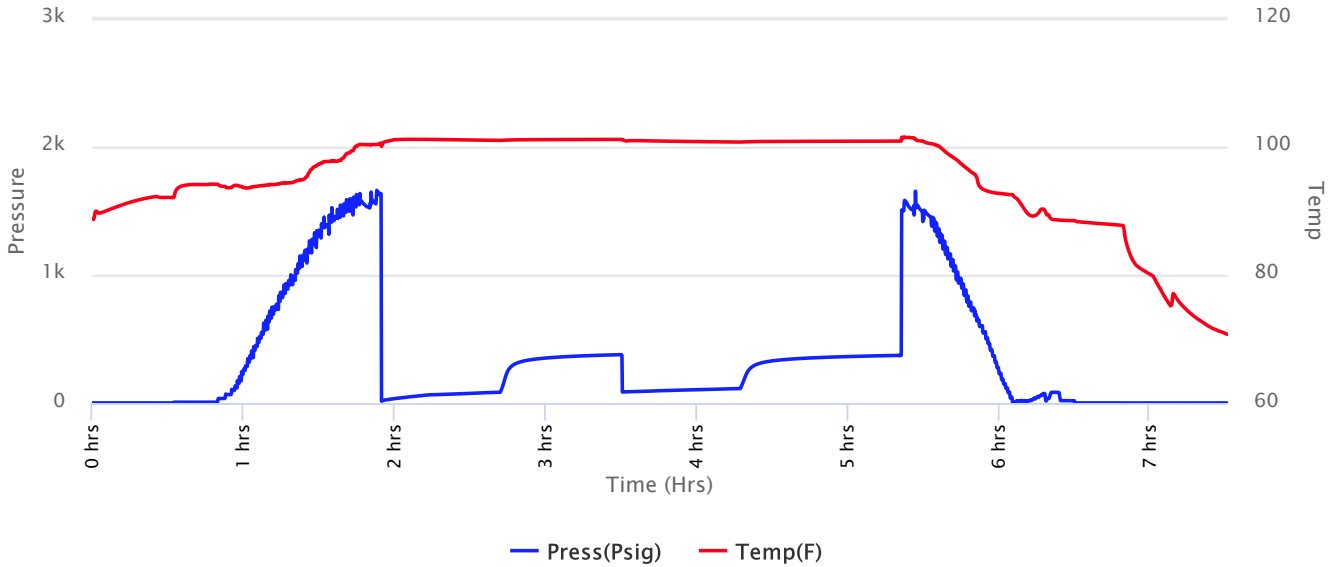
DATE
 July
15
 2019

DST #1 **Formation: LKC C** **Test Interval: 3160 - 3180'** **Total Depth: 3180'**
 Time On: 21:21 07/15 Time Off: 04:39 07/16
 Time On Bottom: 23:13 07/15 Time Off Bottom: 02:28 07/16

Electronic Volume Estimate:
 283'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 45	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 18.7" at 45 min	Current Reading: 0" at 45 min	Current Reading: 7" at 45 min	Current Reading: 0" at 60 min
Max Reading: 18.7"	Max Reading: 0"	Max Reading: 7"	Max Reading: 0"

Inside Recorder





Company: Russell Oil, Inc
Lease: Nuss C #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1911 GL
 Field Name: Nuss
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 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Test Complete

DATE
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DST #1 **Formation: LKC C** **Test Interval: 3160 - 3180'** **Total Depth: 3180'**
 Time On: 21:21 07/15 Time Off: 04:39 07/16
 Time On Bottom: 23:13 07/15 Time Off Bottom: 02:28 07/16

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
126	1.79298	GIP	100	0	0	0
1	0.01423	O	0	100	0	0
6	0.08538	SLWCSLMCO		75	10	15
228	2.126309	SLOCSLGCSLMCW	5	1	84	10

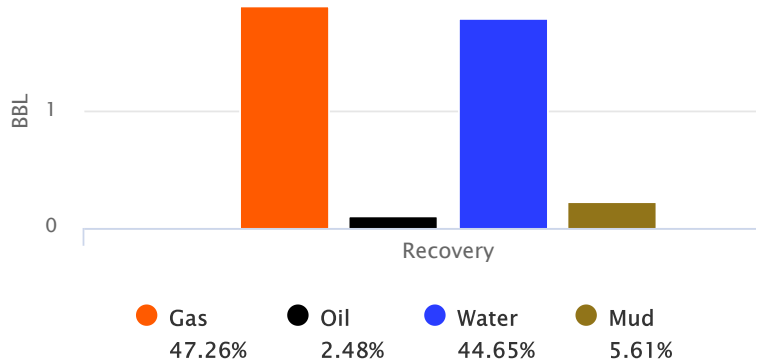
Total Recovered: 361 ft
 Total Barrels Recovered: 4.018899

Reversed Out
 NO

Initial Hydrostatic Pressure 1523 PSI
 Initial Flow 15 to 84 PSI
Initial Closed in Pressure **377** **PSI**
 Final Flow Pressure 86 to 113 PSI
Final Closed in Pressure **372** **PSI**
 Final Hydrostatic Pressure 1524 PSI
 Temperature 102 °F

 Pressure Change Initial 1.5 %
 Close / Final Close

Recovery at a glance



GIP cubic foot volume: 10.66359



Company: Russell Oil, Inc
Lease: Nuss C #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1911 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Test Complete

DATE
July
15
2019

DST #1 **Formation: LKC C** **Test Interval: 3160 - 3180'** **Total Depth: 3180'**
Time On: 21:21 07/15 Time Off: 04:39 07/16
Time On Bottom: 23:13 07/15 Time Off Bottom: 02:28 07/16

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. BOB in 27 mins
1st Close: NOBB
2nd Open: WSB. Built to 7 inches in 45 mins
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 90% Water 10% Mud
Ph: 7
Measured RW: .5 @ 72 degrees °F
RW at Formation Temp: 0.362 @ 102 °F
Chlorides: 70,000 ppm



Company: Russell Oil, Inc
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SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC -
 Rig 8
 Elevation: 1911 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Test Complete

DATE
 July
15
 2019

DST #1 **Formation: LKC C** **Test Interval: 3160 - 3180'** **Total Depth: 3180'**
 Time On: 21:21 07/15 Time Off: 04:39 07/16
 Time On Bottom: 23:13 07/15 Time Off Bottom: 02:28 07/16

Down Hole Makeup

Heads Up: 5.9900000000001 FT	Packer 1: 3155 FT
Drill Pipe: 3013.32 FT <i>ID-3 1/2</i>	Packer 2: 3160 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3144.42 FT
Collars: 120.1 FT <i>ID-2 1/4</i>	Bottom Recorder: 3163 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 20	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 1 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 18 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Nuss C #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
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Rig 8
Elevation: 1911 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Test Complete

DATE
July
15
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DST #1 **Formation: LKC C** **Test Interval: 3160 - 3180'** **Total Depth: 3180'**
Time On: 21:21 07/15 Time Off: 04:39 07/16
Time On Bottom: 23:13 07/15 Time Off Bottom: 02:28 07/16

Mud Properties

Mud Type: Chem **Weight:** 9 **Viscosity:** 52 **Filtrate:** 6.4 **Chlorides:** 5000 ppm



Company: Russell Oil, Inc Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC - Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Uploading recovery & pressures

DATE
July
16
2019

DST #2 Formation: Lan E-F Test Interval: 3190 - 3216' Total Depth: 3216'

Time On: 11:20 07/16 Time Off: 17:49 07/16
Time On Bottom: 12:58 07/16 Time Off Bottom: 15:58 07/16

Electronic Volume Estimate:
131'

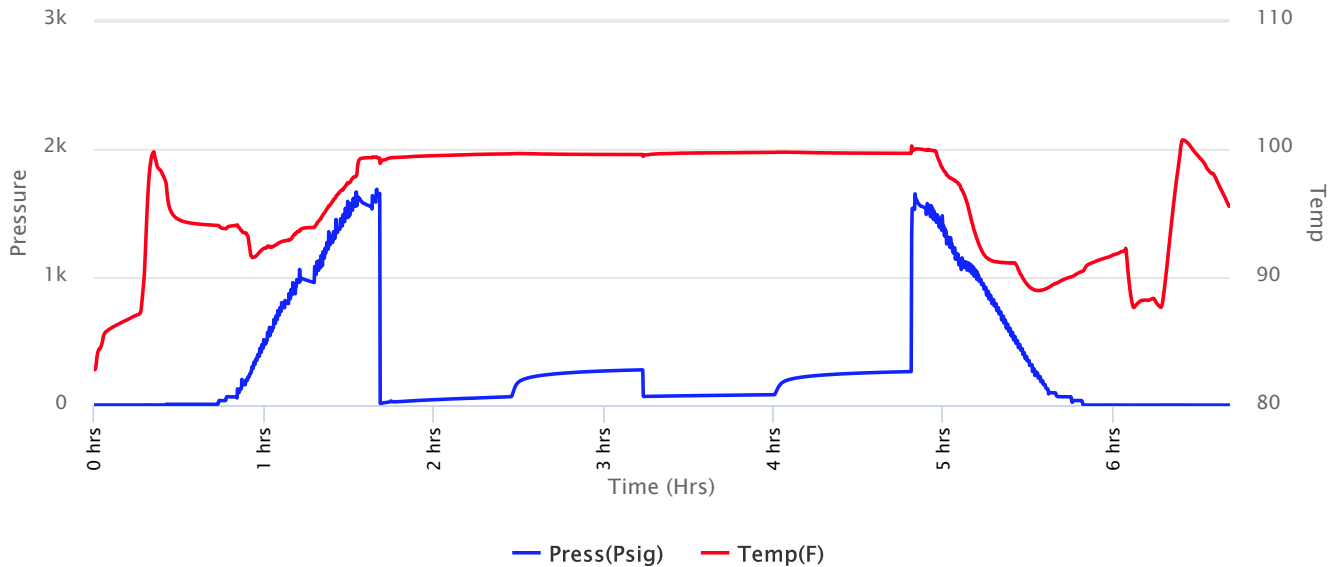
1st Open
Minutes: 45
Current Reading:
4.3" at 45 min
Max Reading: 4.3"

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

2nd Open
Minutes: 45
Current Reading:
2.2" at 45 min
Max Reading: 2.2"

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

Inside Recorder





Company: Russell Oil, Inc
Lease: Nuss "C" #2

DST #2 for Diamond Testing, LLC

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

DATE
 July
16
 2019

DST #2 **Formation: Lan E-F** **Test Interval: 3190 - 3216'** **Total Depth: 3216'**
 Time On: 11:20 07/16 Time Off: 17:49 07/16
 Time On Bottom: 12:58 07/16 Time Off Bottom: 15:58 07/16

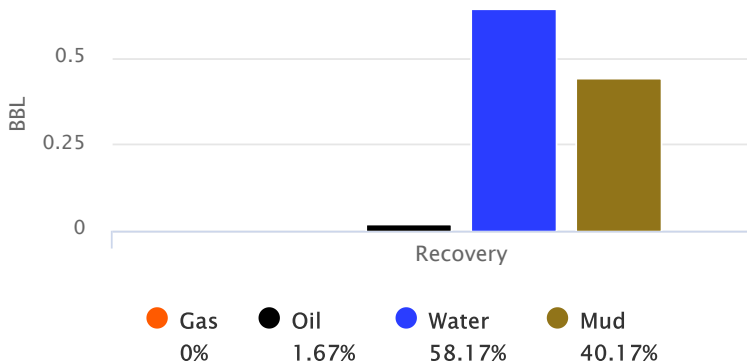
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1	0.01423	O	0	100	0	0
29	0.41267	SLOCHWCM	0	1	49	50
126	0.674849	HMCW	0	0	65	35

Total Recovered: 156 ft
 Total Barrels Recovered: 1.101749

Reversed Out
 NO

Initial Hydrostatic Pressure	1531	PSI
Initial Flow	14 to 66	PSI
Initial Closed in Pressure	276	PSI
Final Flow Pressure	68 to 82	PSI
Final Closed in Pressure	262	PSI
Final Hydrostatic Pressure	1539	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	5.0	%

Recovery at a glance



GIP cubic foot volume: 0

7/16/2019



Company: Russell Oil, Inc Lease: Nuss "C" #2

DST #2 for Diamond Testing, LLC

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Uploading recovery &
pressures

DATE
July
16
2019

DST #2 Formation: Lan E-F Test Interval: 3190 - Total Depth: 3216'
3216'
Time On: 11:20 07/16 Time Off: 17:49 07/16
Time On Bottom: 12:58 07/16 Time Off Bottom: 15:58 07/16

BUCKET MEASUREMENT:

1st Open: WSB. Built to 4 1/4 inch in 45 mins
1st Close: NOBB
2nd Open: WSB. Built to 2 1/4 inch in 45 mins
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 90% Water 10% Mud
Ph: 7
Measured RW: .11 @ 98 degrees °F
RW at Formation Temp: 0.108 @ 100 °F
Chlorides: 63,000 ppm



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #2 Formation: Lan E-F Test Interval: 3190 - Total Depth: 3216'
3216'
Time On: 11:20 07/16 Time Off: 17:49 07/16
Time On Bottom: 12:58 07/16 Time Off Bottom: 15:58 07/16

Mud Properties

Mud Type: Chem **Weight:** 9 **Viscosity:** 51 **Filtrate:** 7.4 **Chlorides:** 8100 ppm



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

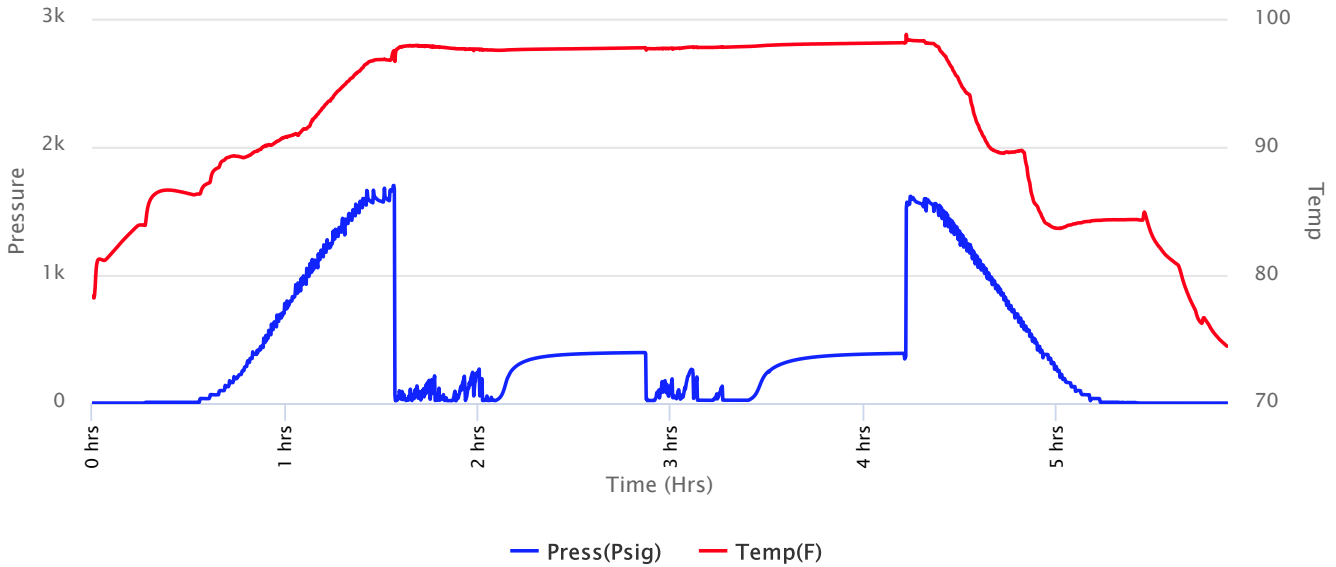
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DST #3 Formation: Lans G Test Interval: 3217 - 3226' Total Depth: 3226'
 Time On: 23:06 07/16 Time Off: 04:49 07/17
 Time On Bottom: 00:38 07/17 Time Off Bottom: 03:08 07/17

Electronic Volume Estimate:
 12'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 45	Minutes: 30	Minutes: 45
Current Reading: 0" at 30 min	Current Reading: 0" at 45 min	Current Reading: 0" at 30 min	Current Reading: 0" at 45 min
Max Reading: .5"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
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DST #3 **Formation: Lans G** **Test Interval: 3217 - 3226'** **Total Depth: 3226'**
 Time On: 23:06 07/16 Time Off: 04:49 07/17
 Time On Bottom: 00:38 07/17 Time Off Bottom: 03:08 07/17

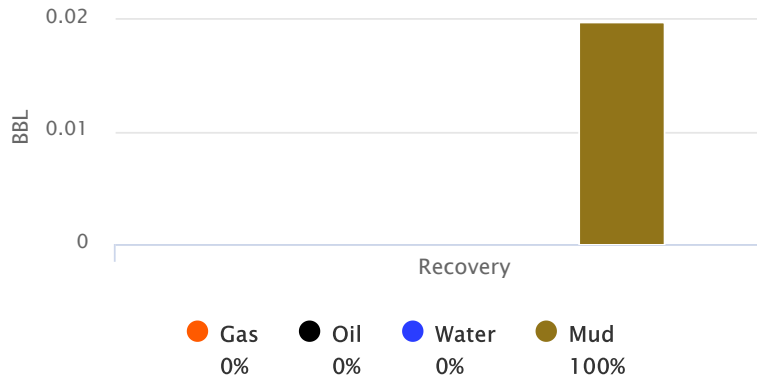
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
4	0.01968	M	0	0	0	100

Total Recovered: 4 ft
 Total Barrels Recovered: 0.01968

Reversed Out
 NO

Initial Hydrostatic Pressure	1570	PSI
Initial Flow	19 to 20	PSI
Initial Closed in Pressure	395	PSI
Final Flow Pressure	20 to 23	PSI
Final Closed in Pressure	389	PSI
Final Hydrostatic Pressure	1569	PSI
Temperature	99	°F
Pressure Change Initial Close / Final Close	1.6	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #3 Formation: Lans G Test Interval: 3217 - Total Depth: 3226'
3226'
Time On: 23:06 07/16 Time Off: 04:49 07/17
Time On Bottom: 00:38 07/17 Time Off Bottom: 03:08 07/17

BUCKET MEASUREMENT:

1st Open: WSB. Built to 1/2 inch in 30 mins.

1st Close: NOBB

2nd Open: No Blow

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC -
 Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery &
 pressures

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DST #3 Formation: Lans G Test Interval: 3217 - 3226' Total Depth: 3226'
 Time On: 23:06 07/16 Time Off: 04:49 07/17
 Time On Bottom: 00:38 07/17 Time Off Bottom: 03:08 07/17

Down Hole Makeup

Heads Up: 11.62 FT	Packer 1: 3212 FT
Drill Pipe: 3075.95 FT <i>ID-3 1/2</i>	Packer 2: 3217 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3201.42 FT
Collars: 120.1 FT <i>ID-2 1/4</i>	Bottom Recorder: 3219 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 9	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #3 Formation: Lans G Test Interval: 3217 - Total Depth: 3226'
3226'
Time On: 23:06 07/16 Time Off: 04:49 07/17
Time On Bottom: 00:38 07/17 Time Off Bottom: 03:08 07/17

Mud Properties

Mud Type: Chem **Weight:** 9 **Viscosity:** 51 **Filtrate:** 7.4 **Chlorides:** 8100 ppm



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

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DST #3 Formation: Lans G Test Interval: 3217 - 3226' Total Depth: 3226'
 Time On: 23:06 07/16 Time Off: 04:49 07/17
 Time On Bottom: 00:38 07/17 Time Off Bottom: 03:08 07/17

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

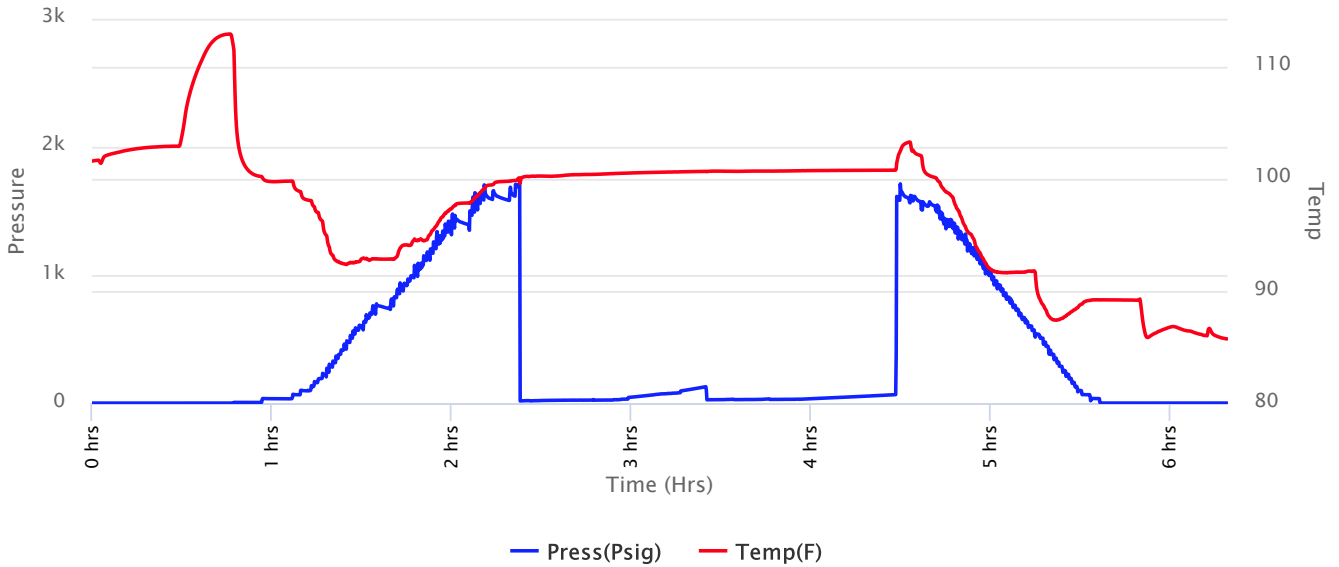
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DST #4 **Formation: Lans I-J** **Test Interval: 3282 - 3330'** **Total Depth: 3330'**
 Time On: 17:42 07/17 Time Off: 23:50 07/17
 Time On Bottom: 20:01 07/17 Time Off Bottom: 22:01 07/17

Electronic Volume Estimate:
 12'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 0" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min
Max Reading: .5"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
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DST #4 **Formation: Lans I-J** **Test Interval: 3282 - 3330'** **Total Depth: 3330'**
 Time On: 17:42 07/17 Time Off: 23:50 07/17
 Time On Bottom: 20:01 07/17 Time Off Bottom: 22:01 07/17

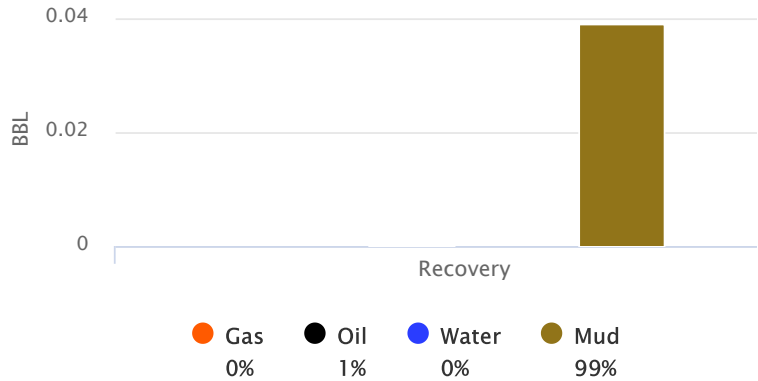
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
8	0.03936	SLOCM	0	1	0	99

Total Recovered: 8 ft
 Total Barrels Recovered: 0.03936

Reversed Out
 NO

Initial Hydrostatic Pressure	1582	PSI
Initial Flow	17 to 24	PSI
Initial Closed in Pressure	128	PSI
Final Flow Pressure	26 to 31	PSI
Final Closed in Pressure	67	PSI
Final Hydrostatic Pressure	1583	PSI
Temperature	101	°F
Pressure Change Initial Close / Final Close	48.3	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #4 Formation: Lans I-J Test Interval: 3282 - Total Depth: 3330'
3330'
Time On: 17:42 07/17 Time Off: 23:50 07/17
Time On Bottom: 20:01 07/17 Time Off Bottom: 22:01 07/17

BUCKET MEASUREMENT:

1st Open: 1/2 Blow. Blow Didnt Build and Died in 20 mins
1st Close: NOBB
2nd Open: No Blow
2nd Close: NOBB

REMARKS:

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



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

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DST #4 **Formation: Lans I-J** **Test Interval: 3282 - 3330'** **Total Depth: 3330'**
 Time On: 17:42 07/17 Time Off: 23:50 07/17
 Time On Bottom: 20:01 07/17 Time Off Bottom: 22:01 07/17

Down Hole Makeup

Heads Up: 9.4600000000002 FT	Packer 1: 3276.6 FT
Drill Pipe: 3138.39 FT <i>ID-3 1/2</i>	Packer 2: 3281.6 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3266.02 FT
Collars: 120.1 FT <i>ID-2 1/4</i>	Bottom Recorder: 3318 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 48.4	Surface Choke: 1"
	Bottom Choke: 5/8"
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	
Perforations: (top): 1 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.40 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #4 **Formation: Lans I-J** **Test Interval: 3282 - 3330'** **Total Depth: 3330'**
Time On: 17:42 07/17 Time Off: 23:50 07/17
Time On Bottom: 20:01 07/17 Time Off Bottom: 22:01 07/17

Mud Properties

Mud Type: Chem **Weight:** 9.2 **Viscosity:** 42 **Filtrate:** 8 **Chlorides:** 8900 ppm



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #4 Formation: Lans I-J Test Interval: 3282 - Total Depth: 3330'
3330'
Time On: 17:42 07/17 Time Off: 23:50 07/17
Time On Bottom: 20:01 07/17 Time Off Bottom: 22:01 07/17

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

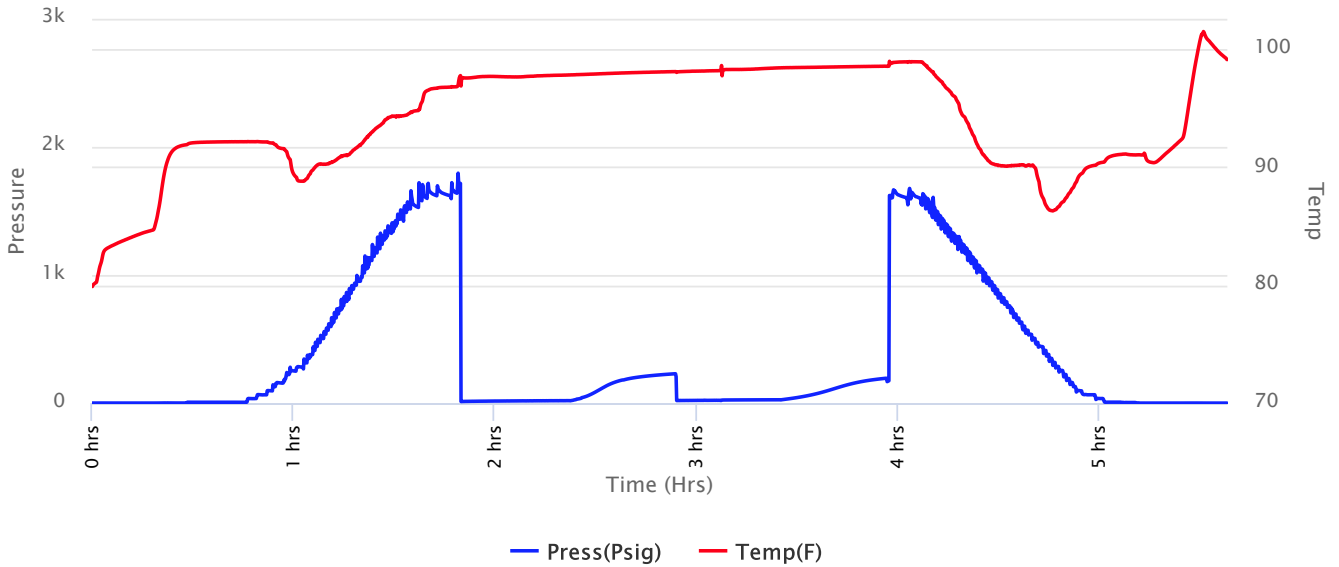
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DST #5 Formation: Lan K-L Test Interval: 3330 - 3366' Total Depth: 3366'
 Time On: 11:45 07/18 Time Off: 16:14 07/18
 Time On Bottom: 12:32 07/18 Time Off Bottom: 14:32 07/18

Electronic Volume Estimate:
 4'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: .1" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min
Max Reading: .15"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
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DST #5 **Formation: Lan K-L** **Test Interval: 3330 - 3366'** **Total Depth: 3366'**
 Time On: 11:45 07/18 Time Off: 16:14 07/18
 Time On Bottom: 12:32 07/18 Time Off Bottom: 14:32 07/18

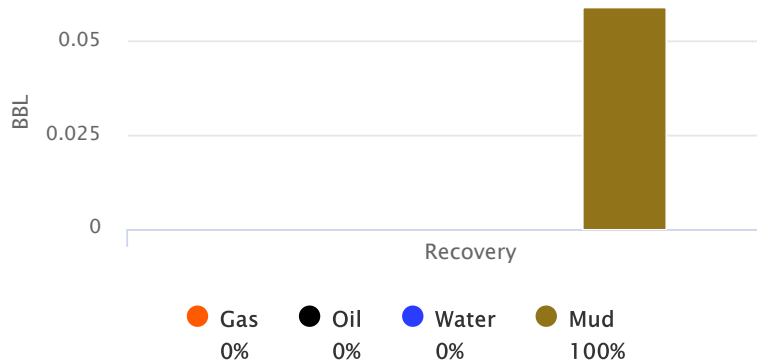
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
12	0.05904	M	0	0	0	100

Total Recovered: 12 ft
 Total Barrels Recovered: 0.05904

Reversed Out
 NO

Initial Hydrostatic Pressure	1596	PSI
Initial Flow	12 to 20	PSI
Initial Closed in Pressure	229	PSI
Final Flow Pressure	20 to 27	PSI
Final Closed in Pressure	193	PSI
Final Hydrostatic Pressure	1584	PSI
Temperature	99	°F
Pressure Change Initial Close / Final Close	15.8	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #5 Formation: Lan K-L Test Interval: 3330 - Total Depth: 3366'
3366'
Time On: 11:45 07/18 Time Off: 16:14 07/18
Time On Bottom: 12:32 07/18 Time Off Bottom: 14:32 07/18

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Blow Didn't Build and died to to wsb.

1st Close: NOBB

2nd Open: No Blow

2nd Close: NOBB

REMARKS:

Flush tool 10 mins into the second opening. (GOOD FLUSH)

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC -
 Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery &
 pressures

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DST #5 **Formation: Lan K-L** **Test Interval: 3330 - 3366'** **Total Depth: 3366'**
 Time On: 11:45 07/18 Time Off: 16:14 07/18
 Time On Bottom: 12:32 07/18 Time Off Bottom: 14:32 07/18

Down Hole Makeup

Heads Up: 24.58 FT	Packer 1: 3325 FT
Drill Pipe: 3201.91 FT <i>ID-3 1/2</i>	Packer 2: 3330 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3314.42 FT
Collars: 120.1 FT <i>ID-2 1/4</i>	Bottom Recorder: 3332 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8"
Total Anchor: 36	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 35 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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DST #5 Formation: Lan K-L Test Interval: 3330 - Total Depth: 3366'
3366'
Time On: 11:45 07/18 Time Off: 16:14 07/18
Time On Bottom: 12:32 07/18 Time Off Bottom: 14:32 07/18

Mud Properties

Mud Type: Chem Weight: 9.1 Viscosity: 39 Filtrate: 8 Chlorides: 7800 ppm



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Uploading recovery &
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DST #5 Formation: Lan K-L Test Interval: 3330 - Total Depth: 3366'
3366'
Time On: 11:45 07/18 Time Off: 16:14 07/18
Time On Bottom: 12:32 07/18 Time Off Bottom: 14:32 07/18

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
------	---------	-----	-------



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC -
 Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
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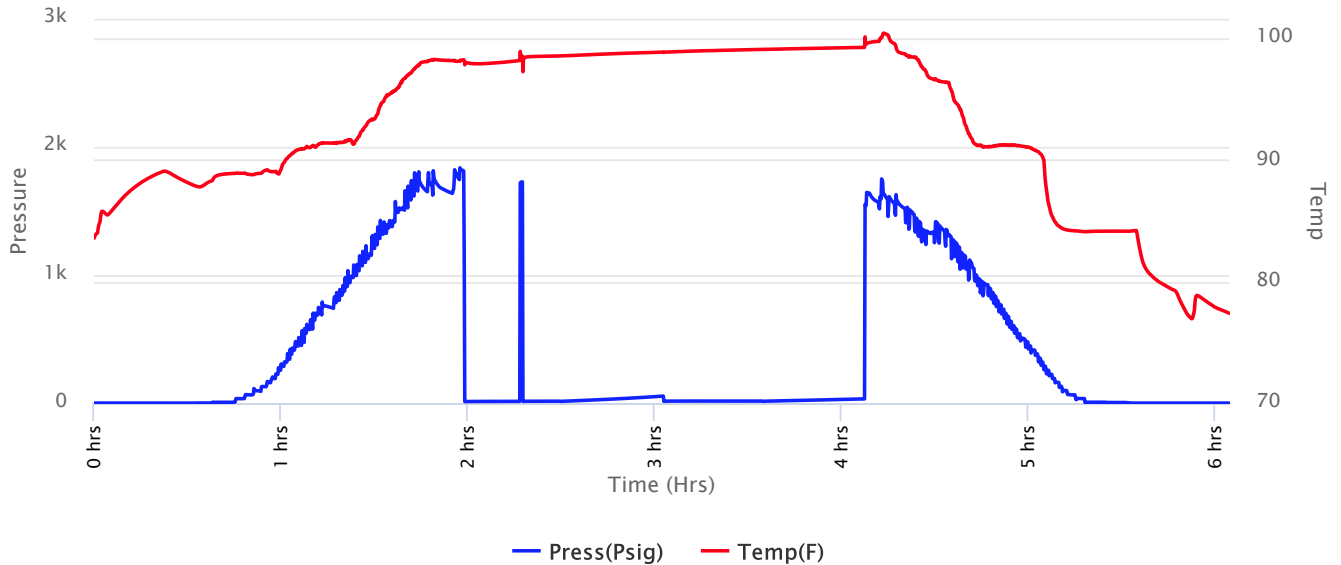
DST #6 Formation: Arbuckle Test Interval: 3363 - 3379' Total Depth: 3379'

Time On: 00:05 07/19 Time Off: 05:59 07/19
 Time On Bottom: 02:01 07/19 Time Off Bottom: 04:01 07/19

Electronic Volume
 Estimate:
 0'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading:	Current Reading:	Current Reading:	Current Reading:
0" at 30 min	0" at 30 min	0" at 30 min	0" at 30 min
Max Reading: 0"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
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DST #6 **Formation: Arbuckle** **Test Interval: 3363 - 3379'** **Total Depth: 3379'**
 Time On: 00:05 07/19 Time Off: 05:59 07/19
 Time On Bottom: 02:01 07/19 Time Off Bottom: 04:01 07/19

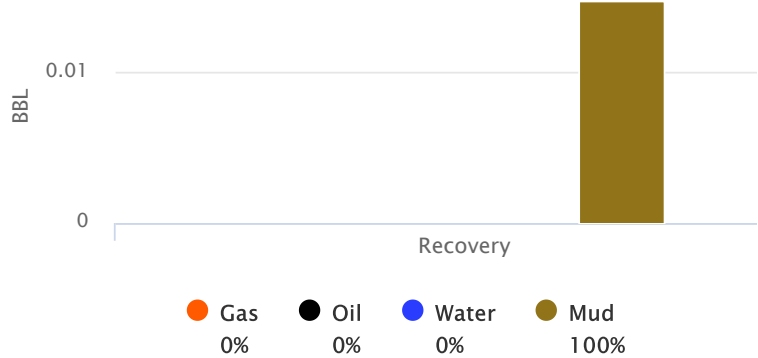
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
3	0.01476	M	0	0	0	100

Total Recovered: 3 ft
 Total Barrels Recovered: 0.01476

Reversed Out
 NO

Initial Hydrostatic Pressure	1638	PSI
Initial Flow	12 to 16	PSI
Initial Closed in Pressure	56	PSI
Final Flow Pressure	14 to 16	PSI
Final Closed in Pressure	33	PSI
Final Hydrostatic Pressure	1637	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	40.7	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
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pressures

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DST #6 Formation: Arbuckle Test Interval: 3363 - Total Depth: 3379'
3379'

Time On: 00:05 07/19 Time Off: 05:59 07/19
Time On Bottom: 02:01 07/19 Time Off Bottom: 04:01 07/19

BUCKET MEASUREMENT:

1st Open: No Blow
1st Close: NOBB
2nd Open: No Blow
2nd Close: NOBB

REMARKS:

Flush too 10 minutes into first opening. (GOOD Flush).

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

DATE
 July
19
 2019

DST #6 Formation: Arbuckle Test Interval: 3363 - 3379' Total Depth: 3379'
 Time On: 00:05 07/19 Time Off: 05:59 07/19
 Time On Bottom: 02:01 07/19 Time Off Bottom: 04:01 07/19

Down Hole Makeup

Heads Up: 23.75 FT	Packer 1: 3358 FT
Drill Pipe: 3234.08 FT <i>ID-3 1/2</i>	Packer 2: 3363 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3347.42 FT
Collars: 120.1 FT <i>ID-2 1/4</i>	Bottom Recorder: 3365 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 16	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 15 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Uploading recovery &
pressures

DATE
July
19
2019

DST #6 Formation: Arbuckle Test Interval: 3363 - Total Depth: 3379'
3379'
Time On: 00:05 07/19 Time Off: 05:59 07/19
Time On Bottom: 02:01 07/19 Time Off Bottom: 04:01 07/19

Mud Properties

Mud Type: Chem **Weight:** 9.1 **Viscosity:** 39 **Filtrate:** 8 **Chlorides:** 7800 ppm



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC -
 Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 July
19
 2019

DST #7 Formation: Arbuckle Test Interval: 3379 - Total Depth: 3386'
3386'
 Time On: 12:33 07/19 Time Off: 17:19 07/19
 Time On Bottom: 14:30 07/19 Time Off Bottom: 15:30 07/19

Electronic Volume
 Estimate:
 0'

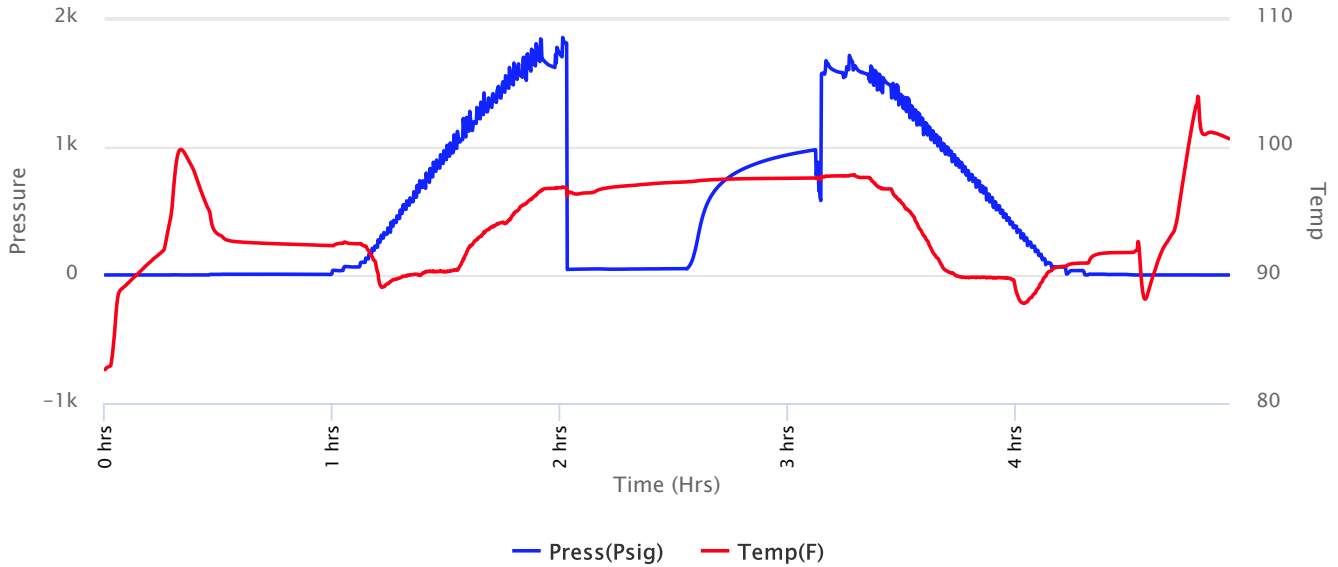
1st Open
 Minutes: 30
 Current Reading:
 0" at 30 min
 Max Reading: 0"

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

2nd Open
 N/A

2nd Close
 N/A

Inside Recorder





Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

DATE
 July
19
 2019

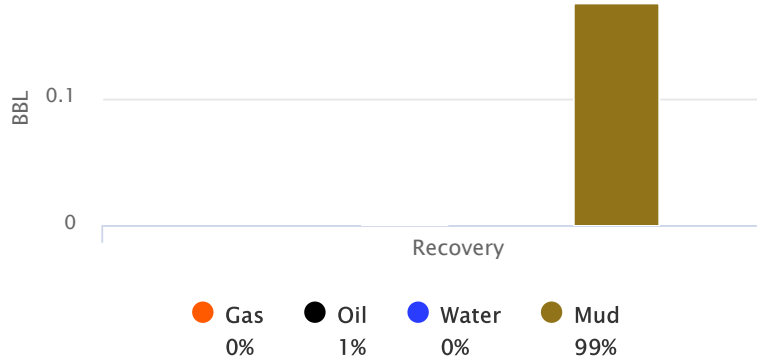
DST #7 **Formation: Arbuckle** **Test Interval: 3379 - 3386'** **Total Depth: 3386'**
 Time On: 12:33 07/19 Time Off: 17:19 07/19
 Time On Bottom: 14:30 07/19 Time Off Bottom: 15:30 07/19

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
36	0.17712	SLOCM	0	1	0	99

Total Recovered: 36 ft
 Total Barrels Recovered: 0.17712

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1621	PSI
Initial Flow	43 to 50	PSI
Initial Closed in Pressure	978	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1622	PSI
Temperature	98	°F
Pressure Change Initial Close / Final Close	0.0	%

GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Uploading recovery &
pressures

DATE
July
19
2019

DST #7 Formation: Arbuckle Test Interval: 3379 - Total Depth: 3386'
3386'
Time On: 12:33 07/19 Time Off: 17:19 07/19
Time On Bottom: 14:30 07/19 Time Off Bottom: 15:30 07/19

BUCKET MEASUREMENT:

1st Open: No Blow.

1st Close: NOBB

REMARKS:

Had a 1/2 inch Surge Blow but no other blow followed after the surge blow. Died right after surge blow.

Tool Sample: 0% Gas 2% Oil 0% Water 98% Mud



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Uploading recovery &
pressures

DATE
July
19
2019

DST #7 Formation: Arbuckle Test Interval: 3379 - Total Depth: 3386'
3386'
Time On: 12:33 07/19 Time Off: 17:19 07/19
Time On Bottom: 14:30 07/19 Time Off Bottom: 15:30 07/19

Down Hole Makeup

Heads Up:	5.9900000000001 FT	Packer 1:	3374 FT
Drill Pipe:	3232.32 FT	Packer 2:	3379 FT
	<i>ID-3 1/2</i>	Top Recorder:	3363.42 FT
Weight Pipe:	FT	Bottom Recorder:	3381 FT
	<i>ID-2 7/8</i>	Well Bore Size:	7 7/8
Collars:	120.1 FT	Surface Choke:	1"
	<i>ID-2 1/4</i>	Bottom Choke:	5/8"
Test Tool:	33.57 FT		
	<i>ID-3 1/2-FH</i>		
	<i>Jars</i>		
	<i>Safety Joint</i>		
Total Anchor:	7		
	<u>Anchor Makeup</u>		
Packer Sub:	1 FT		
Perforations: (top):	FT		
	<i>4 1/2-FH</i>		
Change Over:	FT		
Drill Pipe: (in anchor):	FT		
	<i>ID-3 1/2</i>		
Change Over:	FT		
Perforations: (below):	6 FT		
	<i>4 1/2-FH</i>		



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 8
Elevation: 1914 GL
Field Name: Nuss
Pool: Infield
Job Number: 363
API #: 15-167-24094-00-00

Operation:
Uploading recovery &
pressures

DATE
July
19
2019

DST #7 Formation: Arbuckle Test Interval: 3379 - Total Depth: 3386'
3386'
Time On: 12:33 07/19 Time Off: 17:19 07/19
Time On Bottom: 14:30 07/19 Time Off Bottom: 15:30 07/19

Mud Properties

Mud Type: **Weight:** **Viscosity:** **Filtrate:** **Chlorides: ppm**



Company: Russell Oil, Inc
Lease: Nuss "C" #2

SEC: 32 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: WW Drilling, LLC - Rig 8
 Elevation: 1914 GL
 Field Name: Nuss
 Pool: Infield
 Job Number: 363
 API #: 15-167-24094-00-00

Operation:
 Uploading recovery & pressures

DATE
 July
19
 2019

DST #7 Formation: Arbuckle Test Interval: 3379 - 3386' Total Depth: 3386'
 Time On: 12:33 07/19 Time Off: 17:19 07/19
 Time On Bottom: 14:30 07/19 Time Off Bottom: 15:30 07/19

Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

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. 1512

Date <u>8-2-19</u>	Sec.	Twp.	Range	County <u>Russell</u>	State <u>KS</u>	On Location	Finish <u>11:45 AM</u>
--------------------	------	------	-------	-----------------------	-----------------	-------------	------------------------

Location Russell & Barton CU Line 3W Vinto

Lease <u>Nuss C</u>	Well No. <u>2</u>	Owner
Contractor <u>Outlaw</u>		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.
Type Job <u>Squeeze</u>		Charge To <u>Russell Oil</u>
Hole Size <u>7 7/8</u>	T.D.	Street
Csg. <u>4 1/2</u>	Depth	City
Tbg. Size <u>2 3/8</u>	Depth	State
Tool <u>Reichmann's Chmsp</u>	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered <u>5000m</u>

Meas Line	Displace	<u>used 25</u>
EQUIPMENT		Common
Pumptrk <u>17</u> No. Cementer <u>Cal</u>	Helper	Poz. Mix
Bulktrk No. Driver <u>Tony</u>	Driver	Gel.
Bulktrk <u>15</u> No. Driver <u>Doug</u>	Driver	Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
DV or Port Collar		Sand
<u>Parts - 3385-82.</u>		Handling <u>50</u>
<u>Spot 25 SK @ 3400.</u>		Mileage

<u>Wash down @ 3116.</u>	FLOAT EQUIPMENT
<u>Squeeze @ 3080</u>	Guide Shoe
<u>Squeezed to 1500#</u>	Centralizer
<u>Wash out & pull Tools</u>	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

USED 25 SK

Thanks

X Signature <u>Todd Brown</u>	Pumptrk Charge <u>Squeezes</u>	Tax
	Mileage <u>15</u>	Discount
		Total Charge

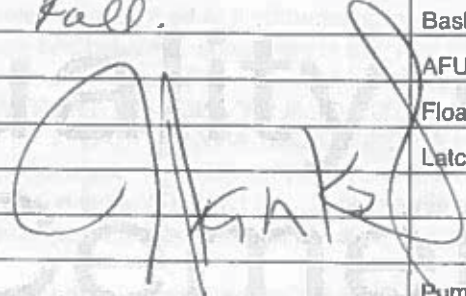
QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1753

Date	10-16-19	Sec.	32	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	9:15 AM
Lease								Location		Milberger 15 1/4 E N into					
NUSS C								Well No. #2		Owner					
Contractor								To Quality Oilwell Cementing, Inc.							
Type Job								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								T.D.		Charge To					
Csg.								Depth		Russell Oil Inc.					
Tbg. Size								Depth		Street					
Tool								Depth		City					
Cement Left in Csg.								Shoe Joint		State					
Meas Line								Displace		The above was done to satisfaction and supervision of owner agent or contractor.					
EQUIPMENT										Cement Amount Ordered 300 SK 60/40 41.					
Pumptrk #8								No.		4400 Hulls					
Bulktrk #13								No.		Common 135					
Bulktrk #15								No.		Poz. Mix 90					
JOB SERVICES & REMARKS										Gel. 8					
Remarks:										Calcium					
Rat Hole										Hulls 300#					
Mouse Hole										Salt					
Centralizers										Flowseal					
Baskets										Kol-Seal					
DV or Port Collar										Mud CLR 48					
* 4 1/2 csg. @ 3385										CFL-117 or CD110 CAF 38					
Tie on mixed 50SK 60/40										Sand					
#300 Hulls mixed 175SK										Handling 360					
60/40 41.										Mileage					
* Sit in @ #300 psi.										FLOAT EQUIPMENT					
* BALLSILE Fall.										Guide Shoe					
										Centralizer					
										Baskets					
										AFU Inserts					
										Float Shoe					
										Latch Down					
Pumptrk Charge										Tax					
Mileage 15 plug										Discount					
Signature										Total Charge					



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 18097 A

DATE 7-20-11 TICKET NO. 18097

DATE OF JOB <u>7-20-11</u>	DISTRICT <u>Pratt, KS. "1710"</u>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER <u>Russell Oil Inc</u>		LEASE <u>Nuss C-2</u>		WELL NO.					
ADDRESS		COUNTY <u>Russell</u>		STATE <u>Kansas</u>					
CITY		STATE		SERVICE CREW <u>Carl B. Eddie M. Tos. Diaz</u>					
AUTHORIZED BY		JOB TYPE: <u>4 1/2 Production 2-42</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <u>7-20-11</u>	DATE	AM	TIME
<u>84980-20920</u>	<u>.75</u>							PM	<u>9:00</u>
<u>19903-13768</u>	<u>.90</u>					ARRIVED AT JOB		AM	<u>1:00</u>
						START OPERATION		AM	<u>3:45</u>
						FINISH OPERATION		AM	<u>4:25</u>
						RELEASED		AM	<u>5:00</u>
						MILES FROM STATION TO WELL			<u>80</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
BC 117	AA2 Cement	SK	150		3195
CC 102	Cellulose Flate	lb	38		152
CC 105	C-41 P	lb	71		284
CC 111	Salt	lb	191		345
CC 187	C-17	lb	71		1704
CC 261	Gilsonite	lb	750		750
BC 132	60/40/100	SX	30		697
CC 200	Rebar 6eL	lb	52		26
MS 101	Light vehicle mileage	Mi	80		400
MS 102	Heavy equipment mileage	Mi	160		1280
CE 504	Aug. multiplier utilization charge	ea	1		250
CC 4	Depth charge 3001-4000"	HR	1		2200
CC 240	Blending + Mixing service charge	SX	100		252
CF 1650	Drill fill float shoe	ea	1		330
CC 106	Latex down plug + Baffle	pa	1		370
CF 1650	Turbalizers	ea	8		680
CC 155	Super Flush II	Gal	500		750
CC 184	liquid KCL	Gal	6		636
BE 143	Service supervisor charge	pa	1		75
BE 144	Driver charge	pa	3		105
SUB TOTAL					14492

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	

TOTAL JUN 8332 38

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u>
---	--

FIELD SERVICE ORDER NO. _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRESLINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 18097 A

DATE _____ TICKET NO. _____

DATE OF JOB		DISTRICT		NEW WELL <input type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.
CUSTOMER				LEASE			WELL NO.		
ADDRESS				COUNTY			STATE		
CITY		STATE		SERVICE CREW					
AUTHORIZED BY				JOB TYPE:					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
1905-12	1					ARRIVED AT JOB		AM	1
						START OPERATION		AM	8
						FINISH OPERATION		AM	PM
						RELEASED		AM	PM
						MILES FROM STATION TO WELL			8

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
1	11				
2	11				
3	11				
4	11				
5	11				
6	11				
7	11				
8	11				
9	11				
10	11				
11	11				
12	11				
13	11				
14	11				
15	11				
16	11				
17	11				
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35	11				
36	11				
37	11				
38	11				
39	11				
40	11				
41	11				
42	11				
43	11				
44	11				
45	11				
46	11				
47	11				
48	11				
49	11				
50	11				

CHEMICAL / ACID DATA:			

SUB TOTAL		
SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		JWJ 852

SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO.	

Customer <i>Pratt Oil Co</i>	Lease No.	Date <i>7-20-2019</i>	
Lease <i>Nuss</i>	Well # <i>212</i>		
Field Order # <i>1547</i>	Station <i>Pratt, KS 1718</i>	Casing <i>4 1/2</i>	Depth <i>3446</i>
Type Job <i>Production</i>	Formation	County <i>Lincoln</i>	State <i>Kansas</i>
		Legal Description <i>2-15-140</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2</i>								
Depth <i>3446</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>54.25</i>	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 <i>294</i>	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Tom Brown</i>	Station Manager <i>Justin Williams</i>	Treater <i>Paul Frickling</i>
Service Units <i>9150</i>	<i>20900</i>	
Driver Names <i>Schiff</i>	<i>W</i>	<i>DLAS</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					on location 12:45 am @ well, ready Rig up
					Run 3446 4 1/2 casing w/ float valve
<i>2:45</i>					Pin on bottom. Drop ball Frac circulation with Pig Draw out Retainer Retain casing 1000 ft 1 hour
<i>3:45</i>	<i>150</i>		<i>3</i>	<i>4</i>	Start Frackwater
<i>3:45</i>	<i>150</i>		<i>12</i>	<i>4</i>	Start 500 Gal water flush
<i>3:52</i>	<i>150</i>		<i>5</i>	<i>4</i>	Frackwater
<i>3:55</i>	<i>150</i>		<i>31.5</i>	<i>5</i>	Mix 150 x PA2 prevent additives
<i>4:05</i>					Control in stop pump
					Inject Pump + Inject + Release pl. 2
<i>4:10</i>				<i>5</i>	Start Discharge
	<i>100</i>			<i>5</i>	Load Rate + Pressure
	<i>200</i>		<i>35</i>	<i>4 1/2</i>	Run at @ 35 bbls out slow rate
	<i>450</i>		<i>52</i>	<i>3 1/2</i>	Stop discharge (1 1/2 out)
<i>4:25</i>	<i>1400</i>	<i>40</i>	<i>54 1/2</i>	<i>3 1/2</i>	Load 1000 Release + Photo field
<i>4:30</i>					Run 30 x 1000/1000 Thank you

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 1467

Date	7-12-19	Sec.	32	Twp.	15	Range	14	County	Russell	State	Ks	On Location		Finish	11:15 AM
------	---------	------	----	------	----	-------	----	--------	---------	-------	----	-------------	--	--------	----------

Lease Nuss Well No. C #2 Location Barton + Russell Co. Line - 3w, N/T

Contractor	<u>W/W #8</u>	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.
Type Job	<u>Surface</u>	Charge To	<u>Russell oil</u>
Hole Size	<u>12 1/4"</u>	T.D.	<u>915'</u>
Csg.	<u>8 3/8"</u>	Depth	<u>915'</u>
Tbg. Size		Street	
Tool		City	
Cement Left in Csg.	<u>21'</u>	State	
Meas Line		Displace	<u>57 BLS</u>
		Shoe Joint	<u>21'</u>
		Cement Amount Ordered	<u>375 80% 3% CC 2% Gel</u>

EQUIPMENT		Common
Pumptrk	<u>17</u> No. <u>Cementer Helper David</u>	Poz. Mix
Bulktrk	<u>13</u> No. <u>Driver David</u>	Gel.
Bulktrk	<u>7</u> No. <u>Driver Rick</u>	Calcium

JOB SERVICES & REMARKS		Hulls
Remarks:	<u>Cement did Circulate</u>	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
		Handling
		Mileage

FLOAT EQUIPMENT	
Guide Shoe	<u>Rubber plug</u>
Centralizer	<u>Baffle plate</u>
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	
Mileage	

X Signature <u>[Signature]</u>	Tax
	Discount
	Total Charge