

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) (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	BENDER B 21-1
Doc ID	1637080

Tops

Name	Top	Datum
Anhydrite	814	+995
B/Anhydrite	849	+960
Grandhaven	2392	-583
Tarkio	2462	-653
Howard	2661	-852
Topeka	2731	-922
Heebner	2960	-1151
Toronto	2976	-1167
Lansing	3022	-1213
B/KC	3260	-1451
Arbuckle	3268	-1459
RTD	3360	-1551
LTD	3360	-1551

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. 2952

Date	5-22-22	Sec.	21	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	10:30 AM
Lease	Bender B	Well No.	21-1	Location	Russell-5 to Stickney Rd, 1 1/2 W										
Contractor	Southwest	Well No.	#1	Owner	D/Tate										
Type Job	Sustaine	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 1/4"	T.D.	814'	Charge To	Russell oil										
Csg.	8 5/8"	Depth	813'	Street											
Tbg. Size		Depth		City	State										
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.											
Cement Left in Csg.	40'	Shoe Joint	40'	Cement Amount Ordered	355 8012 39KCC 2 1/2 bbl										
Meas Line		Displace	49 1/4 BLS	EQUIPMENT											
Pumptrk	16	No.		Common	280										
		Cementer Helper	David	Poz. Mix	90										
Bulktrk	21	No.		Gel.	7										
		Driver	Doug	Calcium	12										
Bulktrk	21	No.		Hulls											
		Driver	Pick	Salt											
JOB SERVICES & REMARKS															
Remarks:	Cement Job Circulate														
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
DV or Port Collar															
	Sand														
	Handling 369														
	Mileage														
	FLOAT EQUIPMENT														
	Girth Shoe Rubber Plug														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	Pumptrk Charge														
	Mileage														
	Tax														
	Discount														
	Total Charge														
X Signature	[Signature]														

Thank

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. 2699

Date	1-30-22	Sec.	21	Twp.	15	Range	14	County	Russell	State	KS	On Location		Finish	9:00pm
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Location Russell 115 1st W

Well No. 21-1

Owner

Lease Bender "B"
Contractor Southwind
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
cement and helper to assist owner or contractor to do work as listed.

Type Job PTA
Charge To Russell Oil

Hole Size 7 7/8
T.D. 3360
Street

Csg.
Depth
City State

Tbg. Size 4 1/2
Depth
The above was done to satisfaction and supervision of owner agent or contractor.

Tool
Depth
Cement Amount Ordered 21509 60/40 4% Gel

Cement Left in Csg. Shoe Joint
Displace

EQUIPMENT			
Pumptrk	17	No. Cementer	Bill
		Helper	
Bulkirk		No. Driver	CEHIG
		Driver	
Bulkirk	1	No. Driver	Fordan
		Driver	

JOB SERVICES & REMARKS

Remarks: Salt

Rat Hole 30
Flowseal 50#

Mouse Hole 1
Kol-Seal

Centralizers
Mud CLR 48

Baskets
CFL-117 or CD110 CAF 38

DV or Port Collar
Sand

3255 w/ 509
Handling 223

850 w/ 509
Mileage

350 w/ 759
FLOAT EQUIPMENT

40 w/ 109
Guide Shoe

309 R.H.
Centralizer

Baskets

AFU Inserts

Float Shoe

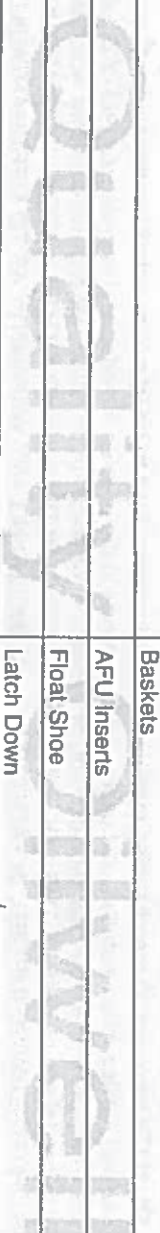
Latch Down
1-8# P109

Pumptrk Charge
Mileage 15 plug

Tax

Discount

Total Charge



X Signature *Shirley A. Rose*

Thanks

KITT NOAH

PETROLEUM GEOLOGIST
Kansas License #229



GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

ELATION: KB 1809
MEASURED FROM: EL 1799
G.S. NO.: KB

#15-167-24.116

CASING RECORD:
SURFACE: 8 5/8" set at
WELL NO.: #21-1
LEASE: Bender "B" & 2279'FE
LOCATION: 2055 FS & 2279'FE
SEC: 21 TWP: 15S RNG: 14W

OPERATOR: Russell Oil, Inc.

CONTRACTOR: Southwind Drilling Rig #1

DATE: 1-19-2022

WELL ID: 3360

API: 15-167-24.115

FIELD: Wildcat

COUNTY: Russell STATE: Kansas

FORMATION TOP LOG

ANHYDRITE 814 (+995)

B/ANHYDRITE 849 (+960)

GRANDHAVEN 2392 (-583)

TARKIO 2462 (-653)

ELMONT 2522 (-713)

HOWARD 2661 (-852)

TOPEKA 2731 (-922)

HEEBNER 2960 (-1151)

TORONTO 2976 (-1167)

LANSING 3022 (-1213)

MUNCIE CRK 3163 (-1354)

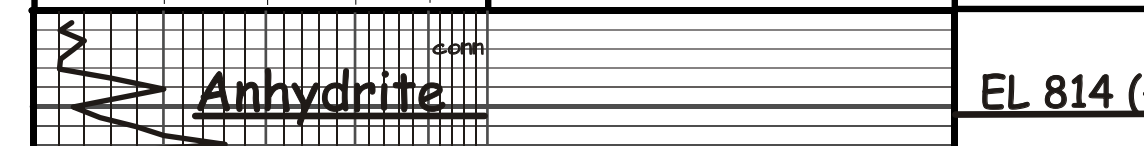
ARBUCKLE 3260 (-1451)

3268 (-1459)

3360 (-1551)

LEGEND

- Limestone
- Ool Lime
- Dolomite
- Sandstone
- Shale
- Carb Shale
- Chert
- Anhydrite



DRILLING TIME IN MINUTES PER FOOT

Rate of penetration increases

DEPTH

REMARKS

EL 814 (+995)

EL 849 (+960)

EL 2392 (-583)

EL 2462 (-653)

EL 2522 (-713)

EL 2661 (-852)

EL 2731 (-922)

EL 2960 (-1151)

EL 2976 (-1167)

EL 3022 (-1213)

EL 3163 (-1354)

EL 3260 (-1451)

EL 3268 (-1459)

EL 3360 (-1551)

100% Loss of Show

DRILLING TIME IN MINUTES PER FOOT

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DEPTH

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EL 2976 (-1167)

EL 3022 (-1213)

EL 3163 (-1354)

EL 3260 (-1451)

EL 3268 (-1459)

EL 3360 (-1551)

100% Loss of Show

DRILLING TIME IN MINUTES PER FOOT

Rate of penetration increases

DEPTH

REMARKS

EL

Bender "B" #21-1 Drilling Report

Russell Oil, Inc.
Bender "B" #21-1
 2055'FS & 2279'FE
 Section 21-15S-14W
 Russell County, Kansas
 #15-167-24,115

KB: 1809
 GL: 1799

Reference Well A: *DR Lauck/Vonfeldt Bender #1 1688'FS & 2453'FE 21-15S-14W*

Reference Well B: *American Petrofina Strecker #2 SW NE SW 21-15S-14W*

Reference Well C: *K&B Norton/Russell Bender #2 NE NE SE 21-15S-14W*

		<u>A:</u>	<u>B:</u>	<u>C:</u>
<u>SAMPLE TOPS</u>				
Anhydrite	811 (+998)	flat	+19	+8
B/Anhydrite	846 (+963)	-3	+19	+4
Grandhaven	2392 (-583)	-2	+11	-15
Tarkio Lime	2462 (-653)	-2	+9	-15
Howard	2661 (-852)	flat	+9	-15
Topeka	2731 (-922)	+3	+11	-14
Heebner	2959 (-1150)	+2	+11	-10
Toronto	2976 (-1167)	+3	+13	-10
Lansing	3021 (-1212)	+2	+13	-9
Mun Creek	3162 (-1353)	+3	+12	-10
B/KC	3259 (-1450)	+3	+12	-6
Arbuckle	3272 (-1463)	+13	+4	-7
RTD	3360 (-1551)			

		<u>A:</u>	<u>B:</u>	<u>C:</u>
<u>ELECTRIC LOG TOPS</u>				
Anhydrite	814 (+995)	-3	+16	+5
B/Anhydrite	849 (+960)	-6	+16	+1
Grandhaven	2392 (-583)	-2	+11	-15
Tarkio Lime	2462 (-653)	-2	+9	-15
Howard	2661 (-852)	flat	+9	-15
Topeka	2731 (-922)	+3	+11	-14
Heebner	2960 (-1151)	+1	+10	-11
Toronto	2976 (-1167)	+3	+13	-10
Lansing	3022 (-1213)	+1	+12	-8
Mun Creek	3163 (-1354)	+2	+11	-11
B/KC	3260 (-1451)	+2	+11	-7
Arbuckle	3268 (-1459)	+17	+7	-3
RTD	3360 (-1551)			

Sample Shows and Drill Stem Tests:

1-24-2022: 7 am Depth 2110'

Tarkio 1st Sand:

Circulate 2416'

Abundant light and dark gray shale; very silty. No visible sand clusters; sand not developed.

Tarkio 2nd Sand:

Circulate 2442'

Sandstone, white-gray; few rare clusters, shaly; fine grained; very micaceous; friable; poor intergranular porosity; no show of free oil or gas; no odor.

Tarkio 3rd Sand:

Dark gray and green shale; silty and sandy; no sand clusters; sand not developed.

Tarkio 4th Sand:

Sandstone, white-gray; fine to medium grained; micaceous; scattered clusters; friable; no visible gas bubbles; no show of free oil; no odor.

1-25-2022: 7 am Depth 2682'

Topeka Plattsmouth 35' zone:

Limestone, cream-tan; fossiliferous and oolitic, isolated vugular porosity; chalky; poor to fair interparticle porosity; few pieces medium brown spotty stain; slight show of free oil; no odor.

No shows in Toronto...

Lansing "A":

Circulate 3034'

DST #1

Limestone, cream; fossiliferous; isolated pinpoint and fair to good vugular porosity; poor interparticle porosity; some dolomitic; medium brown subsaturated stain; slight show of free oil; very slight odor. 40" circulation sample: increase in good vugular porosity; fair show of free oil; slight odor.

Lansing "B":

Circulate 3056'

DST #1

Limestone, cream; many pieces oolitic; pelletoid; poor to fair interoolitic porosity; medium brown spotty to mostly subsaturated stain; slight to fair show of free oil; slight to fair odor; slight yellow fluorescence – scattered tan angular chert.

Will short trip 25 stands; circulate one hour; drop straight hole survey and come out of hole for drill stem test strapping pipe....estimate on bottom with test approximately 9:00-9:30 am...

1-26-2022: 7 am Depth 3056'; Tripping Out For DST

DST #1:

Lansing "A-B"

2988-3056

1st Op: Surface Bldg 1/4"

No Blowback

2nd Op: Dead; No Blow

Not Taken

Diamond Testing Co.-Hoisington

Tim Venters; Tester

Rec:

5' Mud

IFP: 10-13#/30"

ISIP: 376#/30"

FFP: 13-14#/15"

FSIP: Not Taken/0"

Pipe Strap at 3056': .70 Board Long

Survey: 3/4 degrees

No shows in Lansing "C" or "D" zones...

Lansing Lower "F":

Circulate 3114'

DST #2

Limestone, cream-tan; fossiliferous; some very oolitic and pelletoid; poor to fair interparticle porosity; few pieces medium brown saturated stain in fossiliferous rocks – slight show of free oil and gas bubbles spitting when broken; several pieces medium brown spotty stain in oolitic rocks between ooids; overall slight show of free oil; slight odor.

DST #2:

Lansing "E-F"

3082-3114

1st Op: BOB 19"

No Blowback

2nd Op: BOB 14 1/2"

Not Taken

Diamond Testing Co.-Hoisington

Tim Venters; Tester

Rec:

275' GIP

105' SGCWOCM (8%G, 29%O, 24%W, 39%M)

IFP: 12-32#/30"

ISIP: 409#/30"

FFP: 34-38#/30"

FSIP: 399/30"

Chlor: 36,000 ppm

Tool Sample: 27%G, 32%O, 32%W, 9%M

1-27-2022: 7 am Depth 3114'; Circulating To Clean Hole

Lansing "G":

Circulate 3120'

Limestone, cream-white; very oolitic; poor to fair oolitic porosity; predominantly barren; 1-2 pieces medium brown isolated spotty stain; no show of free oil; no odor. *Cut 3' of drilling break*

Lansing "H":

Circulate 3180'

Limestone, cream-tan; fossiliferous; suboolitic; poor oolitic porosity; predominantly barren; no visible stain in samples; no show of free oil; no odor; abundant blue-gray chert.

Lansing "I":

Circulate 3200'

DST #3

Limestone, cream; 1-2 pieces very oolitic; pelletoid; poor to fair interparticle porosity; light to medium brown subsaturated stain; slight show of free oil; slight odor; slight dull fluorescence. 20" circulation sample: Limestone, cream, suboolitic and large oolites; pelletoid; dolomitic; abundant pieces light to medium brown subsaturated to rare saturated stain; slight show of free oil; bright yellow fluorescence; slight odor.

DST #3:

Diamond Testing Co.-Hoisington

Lansing "I"

Tim Venters; Tester

3178-3200

1st Op: Weak Surface Blow Throughout

No Blowback

2nd Op: No Blow

Not Taken

Rec:

5' Mud w/trace oil

IFP: 11-12#/45"

ISIP: 37#/45"

FFP: 12-13#/10"

FSIP: Not Taken/0"

Lansing "J":

Circulate 3230'

DST #4

Limestone, cream-tan; suboolitic; fair vugular porosity; several pieces medium brown spotty stain – couple pieces subsaturated; very slight show of free oil; slight questionable odor.

Lansing "K":

Circulate 3244'

DST #4

Limestone, cream; oolitic; isolated vugular porosity; dolomitic; fair interparticle porosity; good amount golden brown subsaturated to saturated stain; slight to fair show of free oil when broken; pinpoint beads of free oil on break; no odor.

1-28-2022: 7 am Depth 3244'; Testing

DST #4:
Lansing “J-K”

3196-3244

1st Op: Weak ¼” Blow Throughout

No Blowback

2nd Op: No Blow

Not Taken

Diamond Testing Co.-Hoisington
Tim Venters; Tester

Rec:

5’ Mud w/trace oil

IFP: 11-13#/45”

ISIP: 42#/45”

FFP: 13-14#/10”

FSIP: Not Taken/0#

Lansing “L”:

Circulate 3260’

Limestone, tan; very oolitic; isolated vugular porosity; few pieces medium brown spotty edge stain; no show of free oil; no odor.

A mud check before drilling Lansing “L” revealed the mud viscosity was 42 and mud weight was 9.6...due to back to back tests, mud had not been added previously. A tank of mud was added and will circulate through mud system prior to drilling into the Arbuckle....

Arbuckle 1-4’ in (-1466):

Circulate 3276’

DST #5

Dolomite, tan; fine to medium crystalline; poor to fair intercrystalline porosity; 1-2 pieces sucrosic dolomite in 40” circulation sample with medium brown saturated stain; slight to fair show of free oil; slight odor; many pieces orange chert; may be reworked at top.

Arbuckle 4-8’ in (-1470):

Circulate 3280’

DST #5

Dolomite, tan; fine to medium crystalline; many pieces sucrosic; poor to fair intercrystalline and large vugular porosity; good amount medium brown saturated stain; fair show of free oil; slight odor; bright yellow fluorescence.

DST #5:

Arbuckle 0-8’in (-1471)

3256-3280

1st Op: Weak ¼” Blow Throughout

No Blowback

2nd Op: No Blow

Not Taken

Diamond Testing Co. - Hoisington
Tim Venters; Tester

Rec:

1’ SOCM

IFP: 10-173#/45"
ISIP: 25#/45"
FFP: 10-11#/10"
FSIP: Not Taken/0#

Arbuckle 8-13' in (-1476): *Circulate 3285'* **DST #6**
20" circulation sample: Dolomite, cream; medium crystalline; abundant oomoldic porosity; fair to good intercrystalline porosity; abundant pieces medium brown rich saturated stain; good to excellent show of free oil – oil and gas bleeding from oomoldic porosity – oil coating all rocks in tray; fair odor; bright yellow fluorescence. **40" circulation sample:** Dolomite; cream; rhombic crystalline porosity; some oomoldic porosity as above, fair amount very sandy sucrosic dolomite – appears to be in sandy clusters; excellent show of free oil and gas when broken; fair odor; bright yellow fluorescence. *Last two feet drilled rough with rotary table bouncing*

1-29-2022: 7 am Depth 3285'; Tripping Out For DST

DST #6: *Diamond Testing Co. - Hoisington*
Arbuckle 8-13'in (-1476) *Tim Venters; Tester*
3280-3285
1st Op: ½" Blow Bldg To 1"
No Blowback
2nd Op: Surface Blow Throughout
Not Taken

Rec:
2' Oil
10' SOCM (17%O, 83%M)
12' Total Recovery

IFP: 13-13#/45"
ISIP: 410#/30"
FFP: 14-14#/45"
FSIP: 296#/30"
Tool Sample: 32%O, 68%M

Arbuckle 13-17' in (-1480): *Circulate 3289'* **DST #7**
Dolomite, tan; fine to medium crystalline; some rhombic; poor to fair intercrystalline porosity; scattered vugular porosity; extreme loss of show – rx 80% barren; many pieces light brown saturated stain; slight to fair show of free oil; fair odor; bright yellow fluorescence.

Arbuckle 17-23' in (-1486): *Circulate 3295'* **DST #7**
Dolomite, tan; fine to medium crystalline; poor to fair intercrystalline porosity; few pieces light brown spotty to subsaturated stain – rx 90% barren; fair show of free oil; slight odor; bright yellow fluorescence; 60" circulation sample: 99% barren.

Arbuckle 23-29' in (-1493):

Circulate 3302'

DST #7

20" circulation sample: Dolomite, cream; medium crystalline; isolated vugular porosity; fair intercrystalline porosity; many pieces spotty to subsaturated stain ; slight to fair show of free oil; fair odor—flood of white angular chert.

40" circulation sample: Dolomite; cream; sucrosic porosity; some vugular porosity; very abundant medium brown saturated stain; fair show of free oil – fair to good show pinpoint beads free oil when broken; fair odor; bright yellow fluorescence. *Most stain had disappeared in sample at 3295'...drilled ahead to look for second break..two feet drilled rough, rotary table bouncing...new drilling break; saturated stain and free oil returned. Elected to drill additional two feet and evaluate for drill stem test of second break.*

Drilled additional two feet of drilling break for test...circulating at 3304'.

From 3295' drilled: 3- 3 ½ - 3 - 3 ½- 1 ½ - 2 - 2 ½ - 1 ½ - 2

Arbuckle 29-31' in (-1495):

Circulate 3304'

DST #7

40" circulation sample: Dolomite, cream; medium crystalline; some subrhombic; fair to good vugular porosity; abundant pieces light to medium golden brown spotty to subsaturated stain; slight to fair show of free oil – fair to good show pinpoint beads of free oil when broken; fair odor; bright yellow fluorescence. *Last foot drilled rough; will test from base of last test through 3304'...*



Circulation samples 3302': 20" on left, 40" on right – second break



Circulation sample 3304': 40'' – additional footage cut in second break

DST #7:

Arbuckle 13-31'in (-1495)

3285-3304

1st Op: BOB 3''

No Blowback

2nd Op: BOB 5''

No Blowback

Diamond Testing Co. - Hoisington

Tim Venters; Tester

Rec:

780' SMCW w/trace oil
(.2%O, 91.8%W, 8%M)

190' SMCW
(99%W, 1%M)

970' Total Fluid

IFP: 42-275#/30''

ISIP: 1000#/30''

FFP: 284-449#/30''

FSIP: 984#/30''

1-30-2022: 7 am Depth 3304'; Drilling Rathole

Heading back to bottom....will cut rathole for logs. Back to drilling approximately 6:30-7:00 am. Will do a 5 stand short trip immediately at TD; circulate one hour and come out for logs. Estimate on the bank to log at 11:30-12:00 am...Will notify Todd Brown when we have reached TD.

Based on negative drill stem test results and electric log analysis, the Bender "B" #21-1 will be plugged an abandoned.

FINAL REPORT



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
26
 2022

DST #1 **Formation: Lansing "A-B"** **Test Interval: 2988 - 3056'** **Total Depth: 3056'**
 Time On: 08:39 01/26 Time Off: 13:16 01/26
 Time On Bottom: 10:18 01/26 Time Off Bottom: 11:36 01/26

Electronic Volume Estimate:
 5'

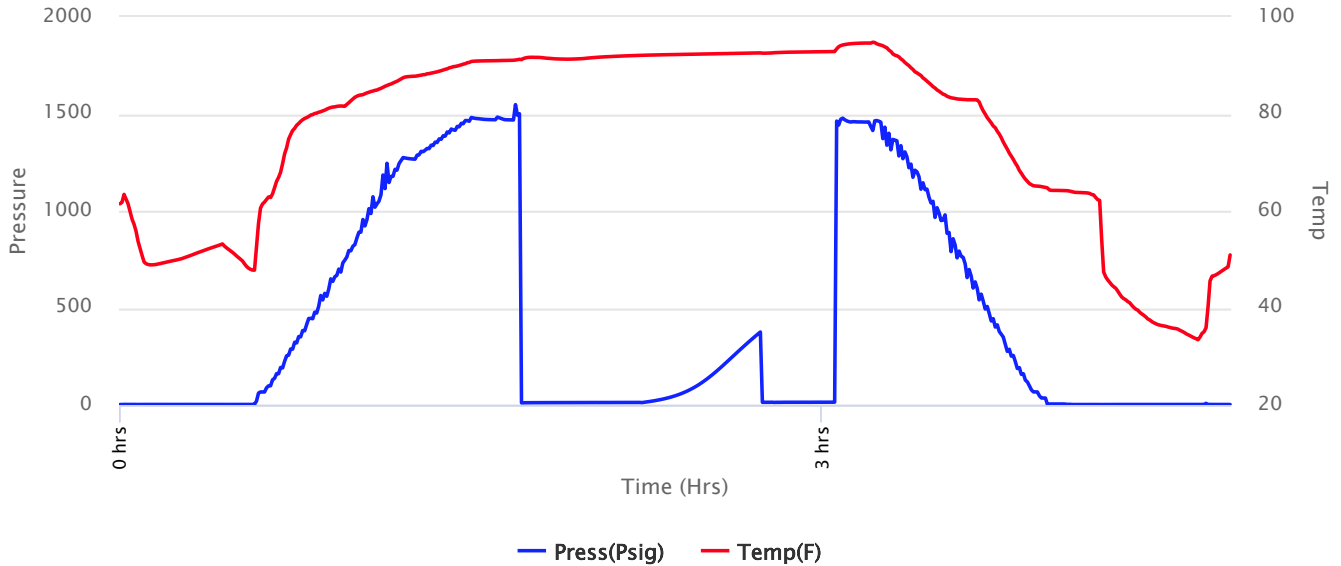
1st Open
 Minutes: 30
 Current Reading: .6" at 30 min
 Max Reading: .6"

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

2nd Open
 Minutes: 15
 Current Reading: 0" at 15 min
 Max Reading: 0"

2nd Close
 Minutes: 0
 Current Reading: N/A" at 0 min
 Max Reading: N/A"

Inside Recorder





Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
26
 2022

DST #1 **Formation: Lansing "A-B"** **Test Interval: 2988 - 3056'** **Total Depth: 3056'**
 Time On: 08:39 01/26 Time Off: 13:16 01/26
 Time On Bottom: 10:18 01/26 Time Off Bottom: 11:36 01/26

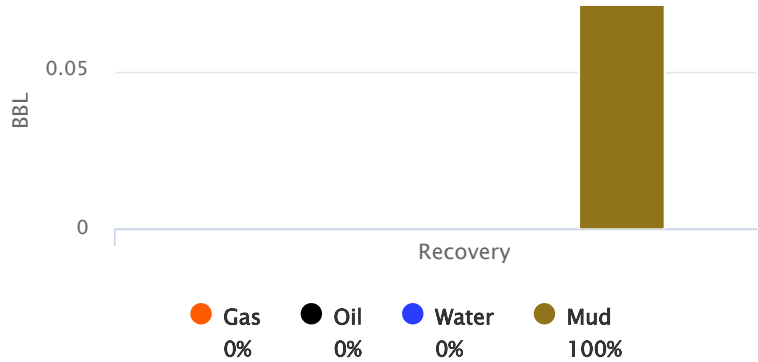
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	M	0	0	0	100

Total Recovered: 5 ft
 Total Barrels Recovered: 0.07115

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1494	PSI
Initial Flow	10 to 13	PSI
Initial Closed in Pressure	376	PSI
Final Flow Pressure	13 to 14	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1478	PSI
Temperature	93	°F
Pressure Change Initial Close / Final Close	100.0	%

GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
26
 2022

DST #1 **Formation: Lansing "A-B"** **Test Interval: 2988 - 3056'** **Total Depth: 3056'**
 Time On: 08:39 01/26 Time Off: 13:16 01/26
 Time On Bottom: 10:18 01/26 Time Off Bottom: 11:36 01/26

Down Hole Makeup

Heads Up: 24.71 FT	Packer 1: 2983.17 FT
Drill Pipe: 2980.31 FT <i>ID-3 1/2</i>	Packer 2: 2988.17 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 2972.59 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3026 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: 67.83	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.83 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 31 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
26
 2022

DST #2 **Formation: L/KC "E-F"** **Test Interval: 3082 - 3114'** **Total Depth: 3114'**

Time On: 23:27 01/26 Time Off: 04:37 01/27
 Time On Bottom: 00:47 01/27 Time Off Bottom: 02:47 01/27

Electronic Volume Estimate:
 318'

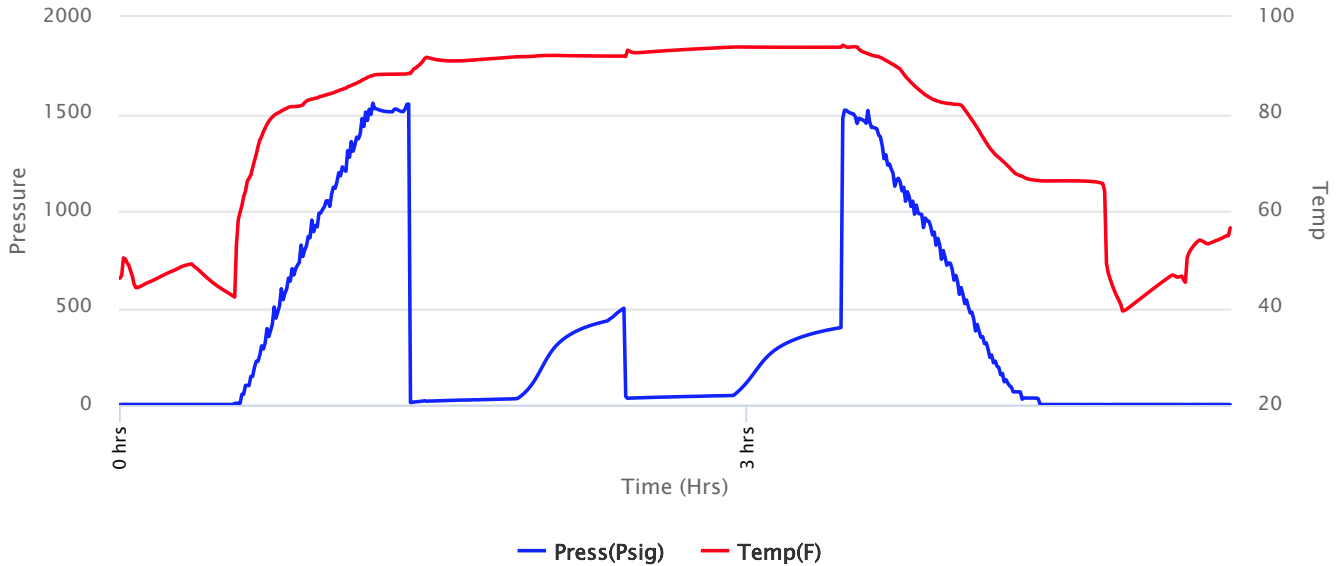
1st Open
 Minutes: 30
 Current Reading:
 19.6" at 30 min
 Max Reading: 19.6"

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

2nd Open
 Minutes: 30
 Current Reading:
 20.9" at 30 min
 Max Reading: 20.9"

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

Inside Recorder





Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
26
 2022

DST #2 **Formation: L/KC "E-F"** **Test Interval: 3082 - 3114'** **Total Depth: 3114'**
 Time On: 23:27 01/26 Time Off: 04:37 01/27
 Time On Bottom: 00:47 01/27 Time Off Bottom: 02:47 01/27

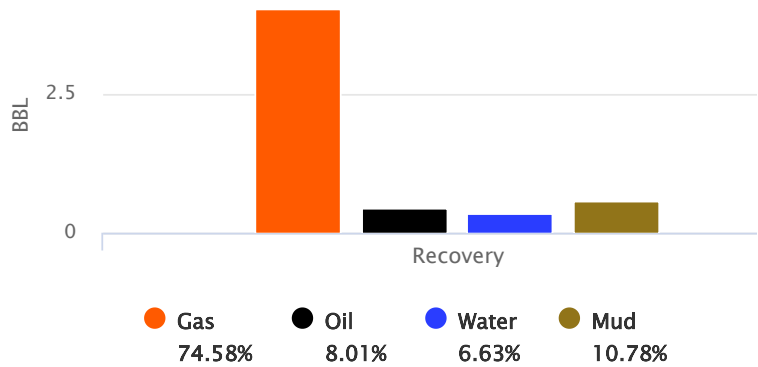
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
275	3.91325	G	100	0	0	0
105	1.49415	SLGCWCOCM	8	29	24	39

Total Recovered: 380 ft
 Total Barrels Recovered: 5.4074

Reversed Out
 NO

Initial Hydrostatic Pressure	1512	PSI
Initial Flow	12 to 32	PSI
Initial Closed in Pressure	499	PSI
Final Flow Pressure	34 to 48	PSI
Final Closed in Pressure	399	PSI
Final Hydrostatic Pressure	1511	PSI
Temperature	95	°F
Pressure Change Initial Close / Final Close	20.0	%

Recovery at a glance



GIP cubic foot volume: 22.64205



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
pressures

DATE
January
26
2022

DST #2 **Formation: L/KC "E-
F"** **Test Interval: 3082 -
3114'** **Total Depth: 3114'**
Time On: 23:27 01/26 Time Off: 04:37 01/27
Time On Bottom: 00:47 01/27 Time Off Bottom: 02:47 01/27

BUCKET MEASUREMENT:

1st Open: Surface blow building to BOB 19 min.
1st Close: No BB
2nd Open: 1 1/2" blow building to BOB 14 1/2 min.
2nd Close: No BB

REMARKS:

Tool Sample: 27% Gas 32% Oil 32% Water 9% Mud
Ph: 6.0
Measured RW: .32 @ 63 degrees °F
RW at Formation Temp: 0.219 @ 95 °F
Chlorides: 36,000 ppm



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery &
 pressures

DATE
 January
26
 2022

DST #2 **Formation: L/KC "E-
 F"** **Test Interval: 3082 -
 3114'** **Total Depth: 3114'**
 Time On: 23:27 01/26 Time Off: 04:37 01/27
 Time On Bottom: 00:47 01/27 Time Off Bottom: 02:47 01/27

Down Hole Makeup

Heads Up: 17.43 FT	Packer 1: 3077 FT
Drill Pipe: 3074.27 FT <i>ID-3 1/2</i>	Packer 2: 3082 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3069 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3084 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 32	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 31 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
pressures

DATE
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26
2022

DST #2 **Formation: L/KC "E-
F"** **Test Interval: 3082 -
3114'** **Total Depth: 3114'**

Time On: 23:27 01/26 Time Off: 04:37 01/27
Time On Bottom: 00:47 01/27 Time Off Bottom: 02:47 01/27

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 56 **Filtrate:** 6.0 **Chlorides:** 2,700 ppm



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery &
 pressures

DATE
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 2022

DST #2 **Formation: L/KC "E- F"** **Test Interval: 3082 - 3114'** **Total Depth: 3114'**
 Time On: 23:27 01/26 Time Off: 04:37 01/27
 Time On Bottom: 00:47 01/27 Time Off Bottom: 02:47 01/27

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
27
 2022

DST #3 Formation: L/KC "I" Test Interval: 3178 - 3200' Total Depth: 3200'

Time On: 15:38 01/27 Time Off: 20:07 01/27
 Time On Bottom: 16:56 01/27 Time Off Bottom: 18:38 01/27

Electronic Volume Estimate:
 0'

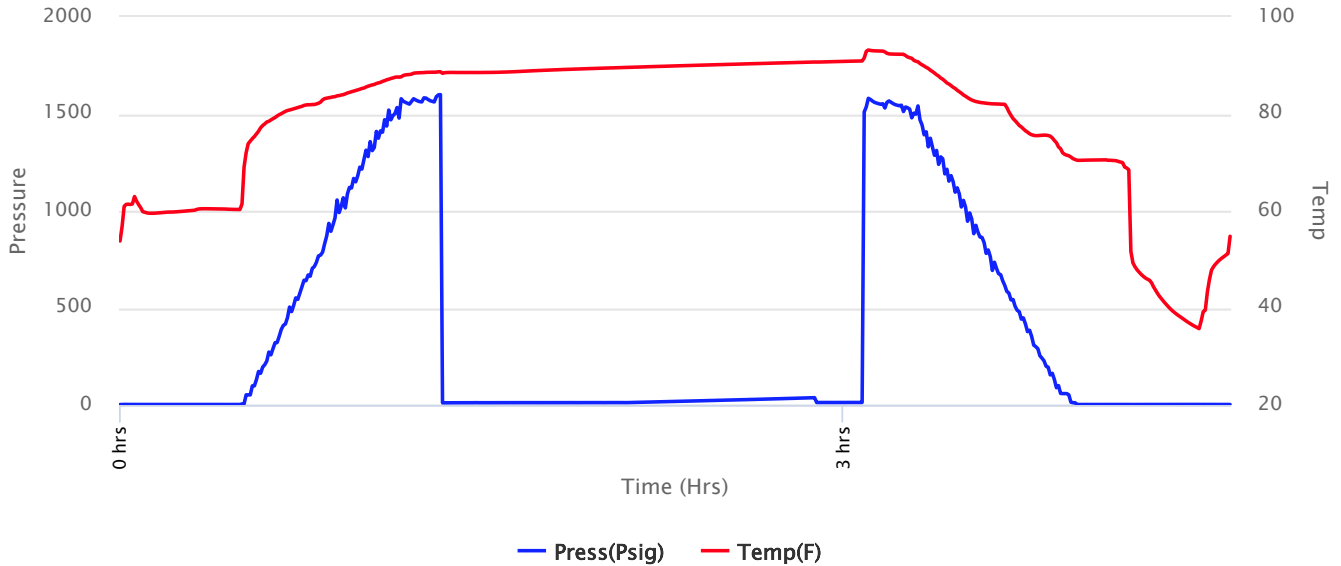
1st Open
 Minutes: 45
 Current Reading:
 0" at 45 min
 Max Reading: 0"

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

2nd Open
 Minutes: 10
 Current Reading:
 0" at 10 min
 Max Reading: 0"

2nd Close
 N/A

Inside Recorder





Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
27
 2022

DST #3 **Formation: L/KC "I"** **Test Interval: 3178 - 3200'** **Total Depth: 3200'**

Time On: 15:38 01/27 Time Off: 20:07 01/27
 Time On Bottom: 16:56 01/27 Time Off Bottom: 18:38 01/27

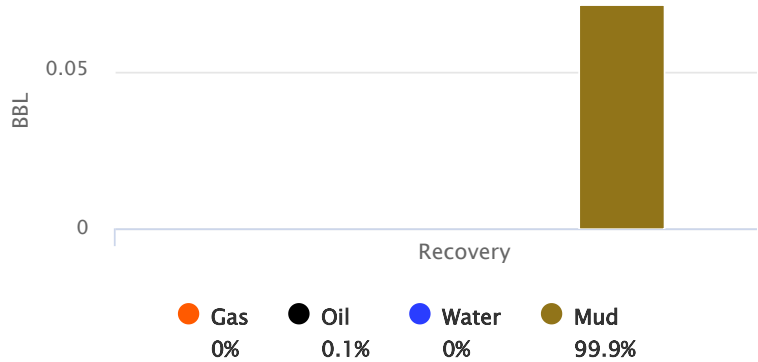
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	M (trace O)	0	.1	0	99.9

Total Recovered: 5 ft
 Total Barrels Recovered: 0.07115

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1562	PSI
Initial Flow	11 to 12	PSI
Initial Closed in Pressure	37	PSI
Final Flow Pressure	12 to 13	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1560	PSI
Temperature	91	°F
Pressure Change Initial Close / Final Close	100.0	%

GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
pressures

DATE
January
27
2022

DST #3 Formation: L/KC "I" Test Interval: 3178 - Total Depth: 3200'
3200'
Time On: 15:38 01/27 Time Off: 20:07 01/27
Time On Bottom: 16:56 01/27 Time Off Bottom: 18:38 01/27

BUCKET MEASUREMENT:

1st Open: Surface blow throughout period
1st Close: No BB
2nd Open: No blow
2nd Close: N/A

REMARKS:

Tool Sample: 0% Gas .5% Oil 0% Water 99.5% Mud



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
pressures

DATE
January
27
2022

DST #3 Formation: L/KC "I" Test Interval: 3178 - Total Depth: 3200'
3200'

Time On: 15:38 01/27 Time Off: 20:07 01/27
Time On Bottom: 16:56 01/27 Time Off Bottom: 18:38 01/27

Down Hole Makeup

Heads Up: 16.78 FT	Packer 1: 3173 FT
Drill Pipe: 3169.62 FT <i>ID-3 1/2</i>	Packer 2: 3178 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3165 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3180 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 22	Surface Choke: 1"
	Bottom Choke: 5/8"
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 21 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
pressures

DATE
January
27
2022

DST #3 Formation: L/KC "I" Test Interval: 3178 - Total Depth: 3200'
3200'

Time On: 15:38 01/27 Time Off: 20:07 01/27
Time On Bottom: 16:56 01/27 Time Off Bottom: 18:38 01/27

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 54 **Filtrate:** 6.0 **Chlorides:** 2,700 ppm



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
pressures

DATE
January
27
2022

DST #3 Formation: L/KC "I" Test Interval: 3178 - Total Depth: 3200'
3200'

Time On: 15:38 01/27 Time Off: 20:07 01/27
Time On Bottom: 16:56 01/27 Time Off Bottom: 18:38 01/27

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

DATE
 January
28
 2022

DST #4 **Formation: L/KC "J-K"** **Test Interval: 3196 - 3244'** **Total Depth: 3244'**

Time On: 05:20 01/28 Time Off: 09:51 01/28
 Time On Bottom: 06:40 01/28 Time Off Bottom: 08:20 01/28

Electronic Volume Estimate:
 5'

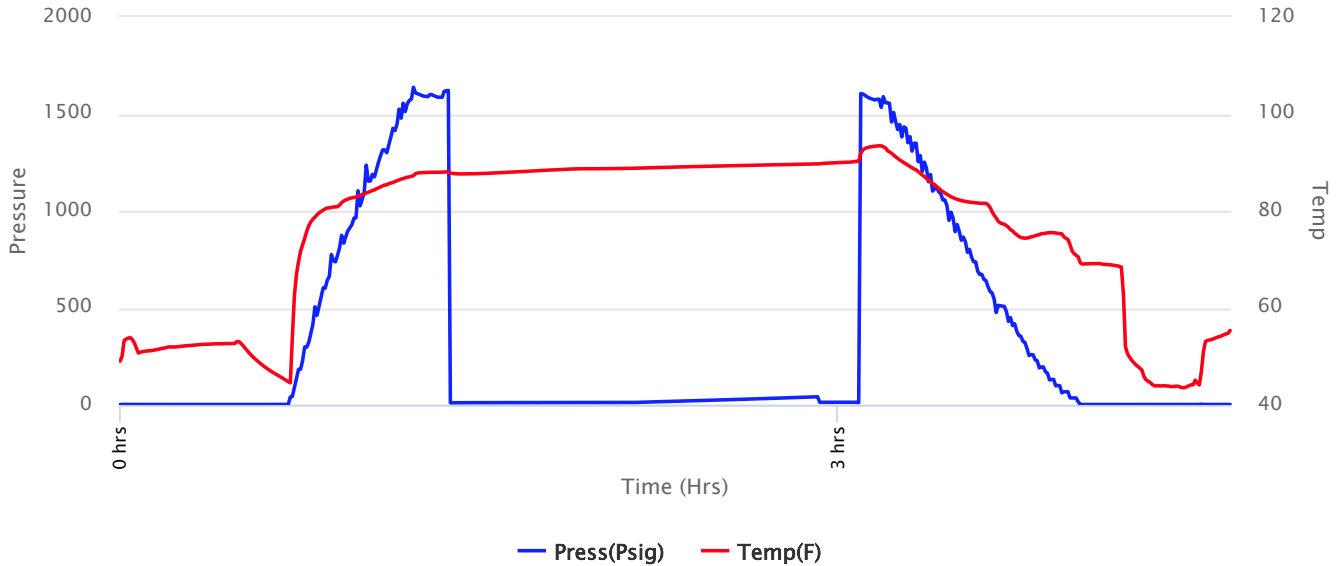
1st Open
 Minutes: 45
 Current Reading: .5" at 45 min
 Max Reading: .6"

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

2nd Open
 Minutes: 10
 Current Reading: 0" at 10 min
 Max Reading: 0"

2nd Close
 N/A

Inside Recorder





Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery & pressures

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DST #4 **Formation: L/KC "J-K"** **Test Interval: 3196 - 3244'** **Total Depth: 3244'**
 Time On: 05:20 01/28 Time Off: 09:51 01/28
 Time On Bottom: 06:40 01/28 Time Off Bottom: 08:20 01/28

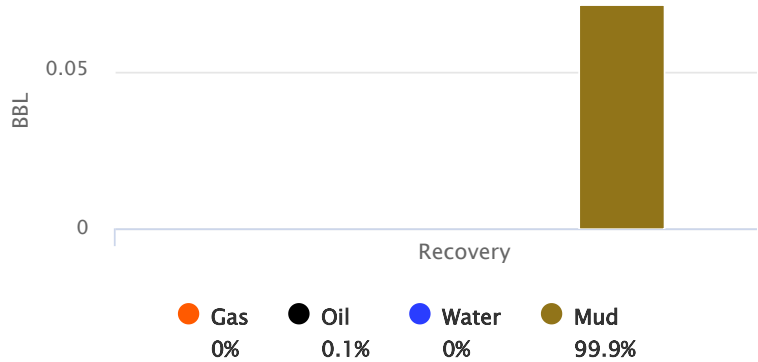
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	M (trace O)	0	.1	0	99.9

Total Recovered: 5 ft
 Total Barrels Recovered: 0.07115

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1585	PSI
Initial Flow	11 to 13	PSI
Initial Closed in Pressure	42	PSI
Final Flow Pressure	13 to 14	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1583	PSI
Temperature	91	°F
Pressure Change Initial Close / Final Close	100.0	%

GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
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DST #4 **Formation: L/KC "J-
K"** **Test Interval: 3196 -
3244'** **Total Depth: 3244'**
Time On: 05:20 01/28 Time Off: 09:51 01/28
Time On Bottom: 06:40 01/28 Time Off Bottom: 08:20 01/28

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1/4"

1st Close: No BB

2nd Open: No blow

2nd Close: N/A

REMARKS:

Tool Sample: 0% Gas .5% Oil 0% Water 99.5% Mud



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery &
 pressures

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DST #4 **Formation: L/KC "J-
 K"** **Test Interval: 3196 -
 3244'** **Total Depth: 3244'**
 Time On: 05:20 01/28 Time Off: 09:51 01/28
 Time On Bottom: 06:40 01/28 Time Off Bottom: 08:20 01/28

Down Hole Makeup

Heads Up: 30.33 FT	Packer 1: 3191.16 FT
Drill Pipe: 3201.33 FT <i>ID-3 1/2</i>	Packer 2: 3196.16 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3183.16 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3237 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 47.84	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 5 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.84 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
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DST #4 **Formation: L/KC "J-
K"** **Test Interval: 3196 -
3244'** **Total Depth: 3244'**
Time On: 05:20 01/28 Time Off: 09:51 01/28
Time On Bottom: 06:40 01/28 Time Off Bottom: 08:20 01/28

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 50 **Filtrate:** 6.4 **Chlorides:** 3,000 ppm



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery &
 pressures

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DST #4 **Formation: L/KC "J-
 K"** **Test Interval: 3196 -
 3244'** **Total Depth: 3244'**
 Time On: 05:20 01/28 Time Off: 09:51 01/28
 Time On Bottom: 06:40 01/28 Time Off Bottom: 08:20 01/28

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
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DST #5 Formation: Arbuckle Test Interval: 3256 - 3280' Total Depth: 3280'

Time On: 20:32 01/28 Time Off: 01:20 01/29
 Time On Bottom: 22:12 01/28 Time Off Bottom: 23:52 01/28

Electronic Volume Estimate:
 5'

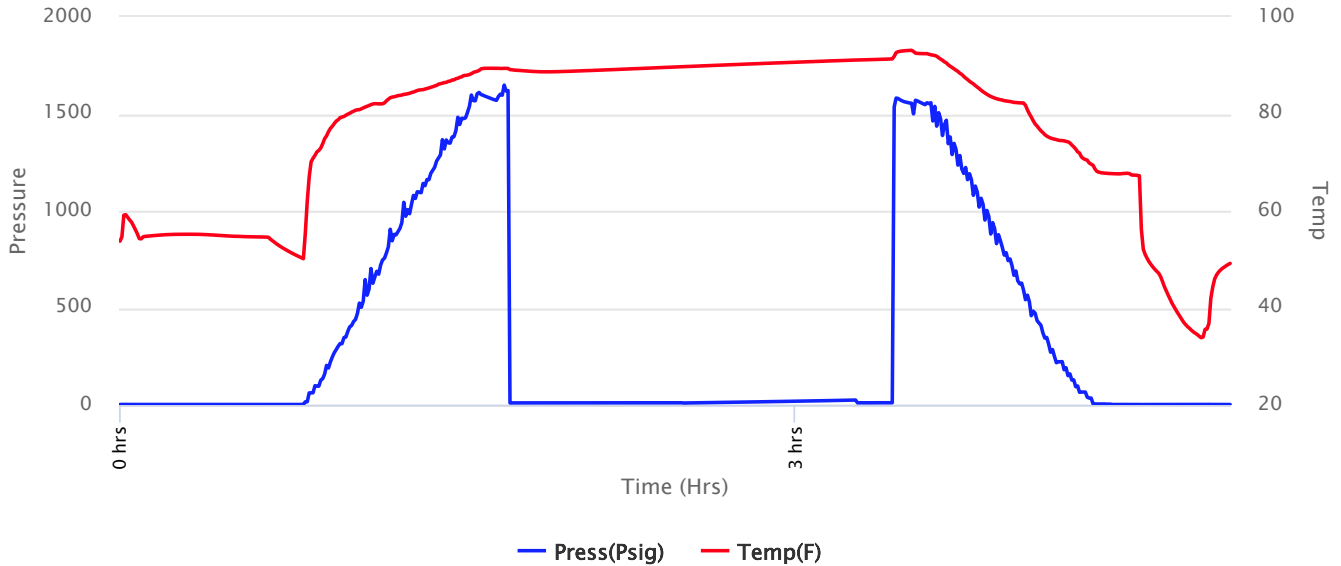
1st Open
 Minutes: 45
 Current Reading: .5" at 45 min
 Max Reading: .6"

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

2nd Open
 Minutes: 10
 Current Reading: 0" at 10 min
 Max Reading: 0"

2nd Close
 Minutes: N/A
 Current Reading: N/A" at N/A min
 Max Reading: N/A"

Inside Recorder





Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
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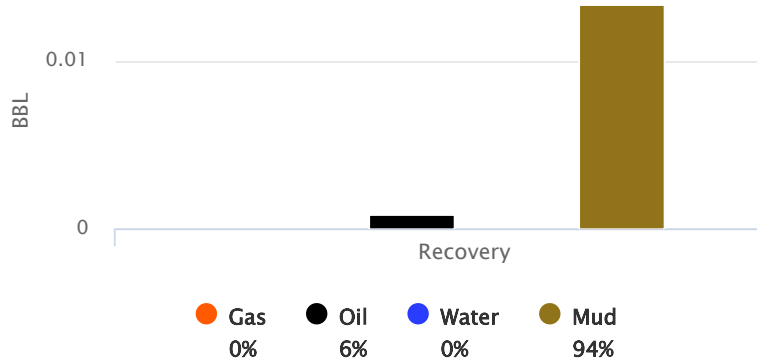
DST #5 **Formation: Arbuckle** **Test Interval: 3256 - 3280'** **Total Depth: 3280'**
 Time On: 20:32 01/28 Time Off: 01:20 01/29
 Time On Bottom: 22:12 01/28 Time Off Bottom: 23:52 01/28

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1	0.01423	SLOCM	0	6	0	94

Total Recovered: 1 ft
 Total Barrels Recovered: 0.01423

Reversed Out
 NO

Recovery at a glance



Initial Hydrostatic Pressure	1597	PSI
Initial Flow	10 to 11	PSI
Initial Closed in Pressure	25	PSI
Final Flow Pressure	10 to 11	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1582	PSI
Temperature	92	°F
Pressure Change Initial Close / Final Close	100.0	%

GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
Uploading recovery &
pressures

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DST #5 Formation: Arbuckle Test Interval: 3256 - Total Depth: 3280'
3280'

Time On: 20:32 01/28 Time Off: 01:20 01/29
Time On Bottom: 22:12 01/28 Time Off Bottom: 23:52 01/28

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1/4"

1st Close: No BB

2nd Open: No blow

2nd Close: N/A

REMARKS:

Tool Sample: 0% Gas .5% Oil 0% Water 99.5% Mud



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling,
 Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
 Uploading recovery &
 pressures

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DST #5 Formation: Arbuckle Test Interval: 3256 - 3280' Total Depth: 3280'
 Time On: 20:32 01/28 Time Off: 01:20 01/29
 Time On Bottom: 22:12 01/28 Time Off Bottom: 23:52 01/28

Down Hole Makeup

Heads Up: 33.91 FT	Packer 1: 3251 FT
Drill Pipe: 3264.75 FT <i>ID-3 1/2</i>	Packer 2: 3256 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3243 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3258 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 24	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 23 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
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DST #5 Formation: Arbuckle Test Interval: 3256 - Total Depth: 3280'
3280'

Time On: 20:32 01/28 Time Off: 01:20 01/29
Time On Bottom: 22:12 01/28 Time Off Bottom: 23:52 01/28

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 50 **Filtrate:** 6.4 **Chlorides:** 3,000 ppm



Company: Russell Oil, Inc Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling, Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
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DST #6 Formation: Arbuckle Test Interval: 3280 - 3285' Total Depth: 3285'

Time On: 06:51 01/29 Time Off: 12:03 01/29
Time On Bottom: 08:09 01/29 Time Off Bottom: 10:39 01/29

Electronic Volume Estimate:
13'

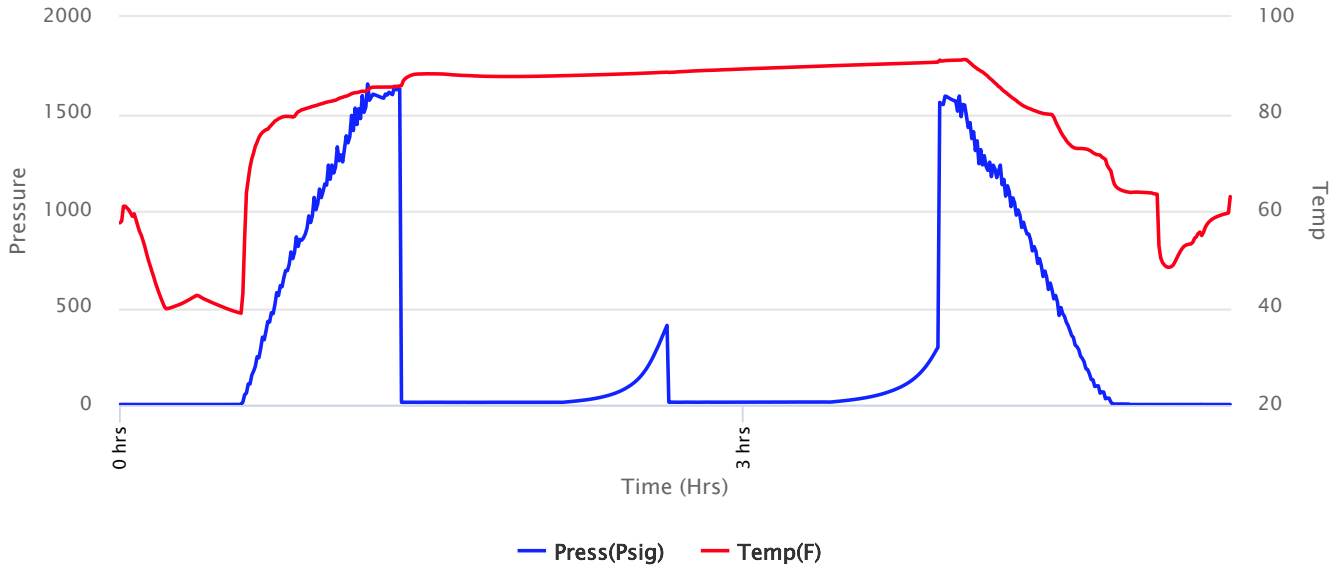
1st Open
Minutes: 45
Current Reading:
1.2" at 45 min
Max Reading: 1.5"

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

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

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

Inside Recorder





Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
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DST #6 Formation: Arbuckle Test Interval: 3280 - 3285' Total Depth: 3285'

Time On: 06:51 01/29 Time Off: 12:03 01/29
 Time On Bottom: 08:09 01/29 Time Off Bottom: 10:39 01/29

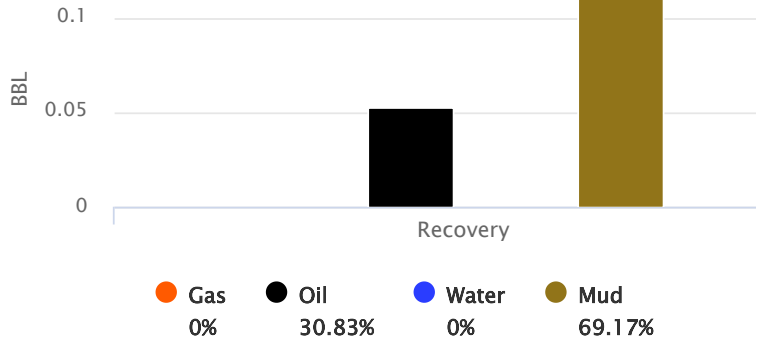
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
2	0.02846	O	0	100	0	0
10	0.1423	SLOCM	0	17	0	83

Total Recovered: 12 ft
 Total Barrels Recovered: 0.17076

Reversed Out
NO

Initial Hydrostatic Pressure	1625	PSI
Initial Flow	13 to 13	PSI
Initial Closed in Pressure	410	PSI
Final Flow Pressure	14 to 14	PSI
Final Closed in Pressure	296	PSI
Final Hydrostatic Pressure	1592	PSI
Temperature	91	°F
Pressure Change Initial Close / Final Close	27.7	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
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DST #6 Formation: Arbuckle Test Interval: 3280 - Total Depth: 3285'
3285'

Time On: 06:51 01/29 Time Off: 12:03 01/29
Time On Bottom: 08:09 01/29 Time Off Bottom: 10:39 01/29

BUCKET MEASUREMENT:

1st Open: 1/2" blow building to 1"

1st Close: No BB

2nd Open: Surface blow throughout period

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 32% Oil 0% Water 68% Mud



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
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DST #6 Formation: Arbuckle Test Interval: 3280 - 3285' Total Depth: 3285'
 Time On: 06:51 01/29 Time Off: 12:03 01/29
 Time On Bottom: 08:09 01/29 Time Off Bottom: 10:39 01/29

Down Hole Makeup

Heads Up: 9.9100000000001 FT	Packer 1: 3275 FT
Drill Pipe: 3264.75 FT <i>ID-3 1/2</i>	Packer 2: 3280 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3267 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3285 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 5	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 4 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
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DST #6 Formation: Arbuckle Test Interval: 3280 - Total Depth: 3285'
3285'

Time On: 06:51 01/29 Time Off: 12:03 01/29
Time On Bottom: 08:09 01/29 Time Off Bottom: 10:39 01/29

Mud Properties

Mud Type: Chemical **Weight:** 9.4 **Viscosity:** 55 **Filtrate:** 6.8 **Chlorides:** 3,100 ppm



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
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DST #7 **Formation: Arbuckle** **Test Interval: 3285 - 3304'** **Total Depth: 3304'**
2nd Break
 Time On: 22:57 01/29 Time Off: 03:38 01/30
 Time On Bottom: 23:31 01/29 Time Off Bottom: 01:31 01/30

Electronic Volume Estimate:
 1128'

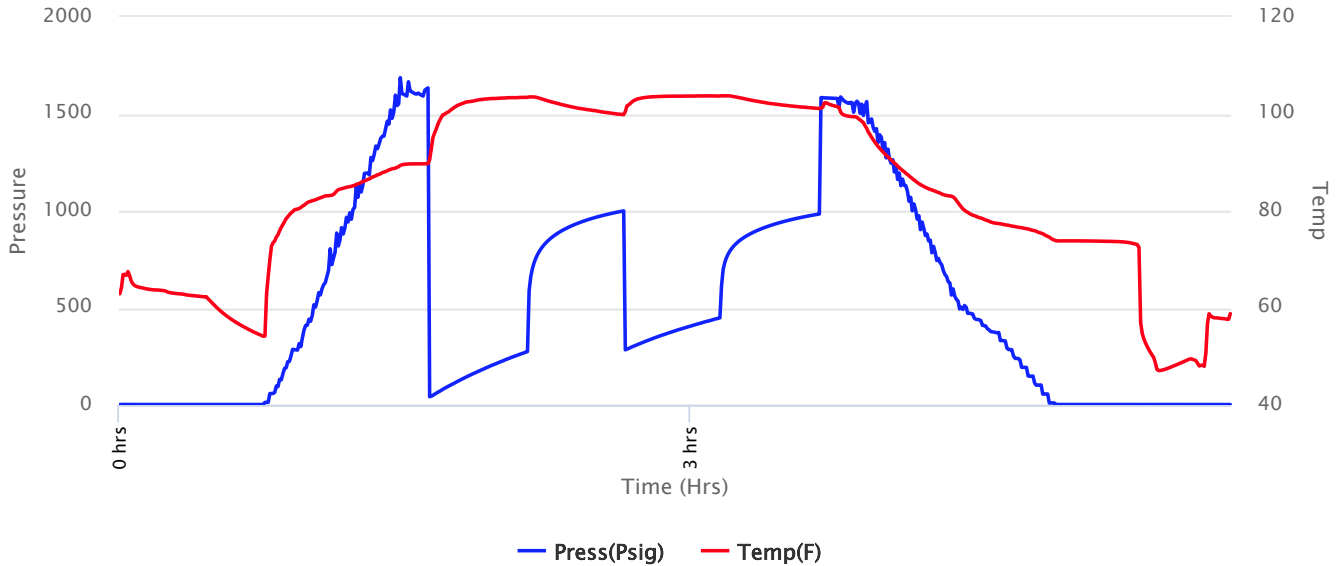
1st Open
 Minutes: 30
 Current Reading:
 82.0" at 30 min
 Max Reading: 82.0"

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

2nd Open
 Minutes: 30
 Current Reading:
 61.6" at 30 min
 Max Reading: 61.6"

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

Inside Recorder





Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
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DST #7 Formation: Arbuckle 2nd Break Test Interval: 3285 - 3304' Total Depth: 3304'
 Time On: 22:57 01/29 Time Off: 03:38 01/30
 Time On Bottom: 23:31 01/29 Time Off Bottom: 01:31 01/30

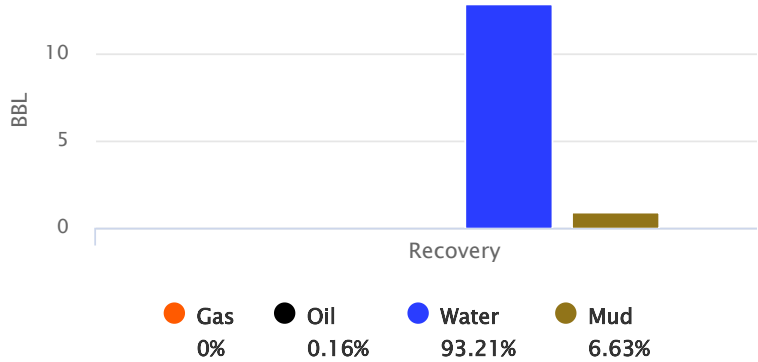
Recovered			Gas %	Oil %	Water %	Mud %
Foot	BBLs	Description of Fluid				
780	11.0994	SLMCW (trace O)	0	.2	91.8	8
190	2.7037	SLMCW	0	0	99	1

Total Recovered: 970 ft
 Total Barrels Recovered: 13.8031

Reversed Out
 NO

Initial Hydrostatic Pressure 1592 PSI
 Initial Flow 42 to 275 PSI
Initial Closed in Pressure 1000 PSI
 Final Flow Pressure 284 to 449 PSI
Final Closed in Pressure 984 PSI
 Final Hydrostatic Pressure 1584 PSI
 Temperature 104 °F
 Pressure Change Initial Close / Final Close 1.6 %

Recovery at a glance



GIP cubic foot volume: 0



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
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DST #7	Formation: Arbuckle	Test Interval: 3285 -	Total Depth: 3304'
	2nd Break	3304'	
	Time On: 22:57 01/29	Time Off: 03:38 01/30	
	Time On Bottom: 23:31 01/29	Time Off Bottom: 01:31 01/30	

BUCKET MEASUREMENT:

1st Open: 2 1/2" blow building to BOB 3 min.

1st Close: No BB

2nd Open: 1" blow building to BOB 5 min.

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .7% Oil 91.3% Water 8% Mud



Company: Russell Oil, Inc
Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Southwind Drilling, Inc - Rig 1
 Elevation: 1799 GL
 Field Name: Strecker
 Pool: Infield
 Job Number: 547
 API #: 15-167-24115

Operation:
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DST #7 Formation: Arbuckle Test Interval: 3285 - Total Depth: 3304'
2nd Break 3304'
 Time On: 22:57 01/29 Time Off: 03:38 01/30
 Time On Bottom: 23:31 01/29 Time Off Bottom: 01:31 01/30

Down Hole Makeup

Heads Up: 36.63 FT	Packer 1: 3280 FT
Drill Pipe: 3296.47 FT <i>ID-3 1/2</i>	Packer 2: 3285 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3272 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 3287 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8"
Total Anchor: 19	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 18 FT <i>4 1/2-FH</i>	



Company: Russell Oil, Inc Lease: Bender "B" #21-1

SEC: 21 TWN: 15S RNG: 14W
County: RUSSELL
State: Kansas
Drilling Contractor: Southwind Drilling,
Inc - Rig 1
Elevation: 1799 GL
Field Name: Strecker
Pool: Infield
Job Number: 547
API #: 15-167-24115

Operation:
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DST #7 Formation: Arbuckle Test Interval: 3285 - Total Depth: 3304'
2nd Break 3304'

Time On: 22:57 01/29 Time Off: 03:38 01/30
Time On Bottom: 23:31 01/29 Time Off Bottom: 01:31 01/30

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D