

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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# 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. 1069

Date	11-20-18	Sec.	25	Twp.	11	Range	13	County	Russell	State	KS	On Location		Finish	12:30pm
Location								Russell v Amherst Rd 7 1/2 E Ninto							
Lease	Ulrich			Well No.	1			Owner							
Contractor	Royal #2			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				J.O. Farmer			
Csg.				Depth				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.				Shoe Joint				Cement Amount Ordered							
Meas Line				Displace				16 BC							
EQUIPMENT								Common							
Pumptrk 17				No. Cementer				130				Helper			
Bulktrk				No. Driver				30				Gel.			
Bulktrk 14				No. Driver				6				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							
D/V or Port Collar								Sand							
8 5/8 on bottom Est. Circulation								Handling 169							
Mix. Horse & Displace								Mileage							
Cement Circulated								FLOAT EQUIPMENT 8 5/8 Swage							
Thank You RG								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Surface							
								Mileage 15							
X Signature								Total Charge							

# 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. 1050

Date	11-27-18	Sec.	25	Twp.	11	Range	13	County	Russell	State	Ks	On Location		Finish	8:30 PM
Lease								Location							
W Rich B								Bunker hill - N to Amherst Rd, 3/4E							
Well No. 1								Owner N/S							
Contractor Royal #2								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 Plug								Charge To John O Farmer							
Hole Size 7 7/8"								T.D. 3343'							
Csg.								Depth							
Tbg. Size 4 1/2" D.P.								Depth 790'							
Tool								Depth							
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace 120							
EQUIPMENT								Common 138							
Pumptrk 16 No. Cementer Rick								Pos. Mix 92							
Bulktrk 15 No. Driver Jack								Gel. 8							
Bulktrk No. Driver								Calcium							
JOB SERVICES & REMARKS								Hulls							
Remarks: 790' - 50 SX								Salt							
Rat Hole 500' - 75 SX								Flowseal 50#							
Mouse Hole 320' - 50 SX								Kol-Seal							
Centralizers 40' - 10 SX w/ plug								Mud CLR 48							
Baskets Rathole w/ 30 SX								CFL-117 or CD110 CAF 38							
D/V or Port Collar Mousehole w/ 15 SX								Sand							
Cement did Circulate								Handling 238							
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe Dry hole plug							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge plug							
								Mileage 15							
X Signature								Tax							
								Discount							
								Total Charge							



# AUSTIN B. KLAUS



**Cell 785.650.3629**  
**Work 785.483.3145**  
**Ext 225**

**PO BOX 352**  
**Russell, KS 67665**  
**austin.klaus@johnofarmer.com**

**Scale 1:240 (5"=100') Imperial**  
**Measured Depth Log**

**Well Name:** Ulrich B #1  
**Location:** Russell County  
**License Number:** API #15-167-24079-0000  
**Spud Date:** 11/19/2018  
**Surface Coordinates:** Section 25, Township 11 South, Range 13 West  
430' FSL & 990' FEL  
**Bottom Hole Coordinates:** Vertical well w/ minimal deviation, same as above  
**Ground Elevation (ft):** 1,731  
**Logged Interval (ft):** 2,600  
**Formation:** LKC  
**Type of Drilling Fluid:** Chemical (Andy's Mud)

**Region:** Kansas  
**Drilling Completed:** 11/27/2018  
**K.B. Elevation (ft):** 1,738  
**Total Depth (ft):** 3,340  
**To:** RTD

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

**Company:** John O. Farmer, Inc.  
**Address:** 370 W. Wichita Ave.  
Russell, KS 67665

## Comments

The Ulrich B #1 well was drilled by Royal Drilling Rig #2 (Tool Pusher: Doug Budig).

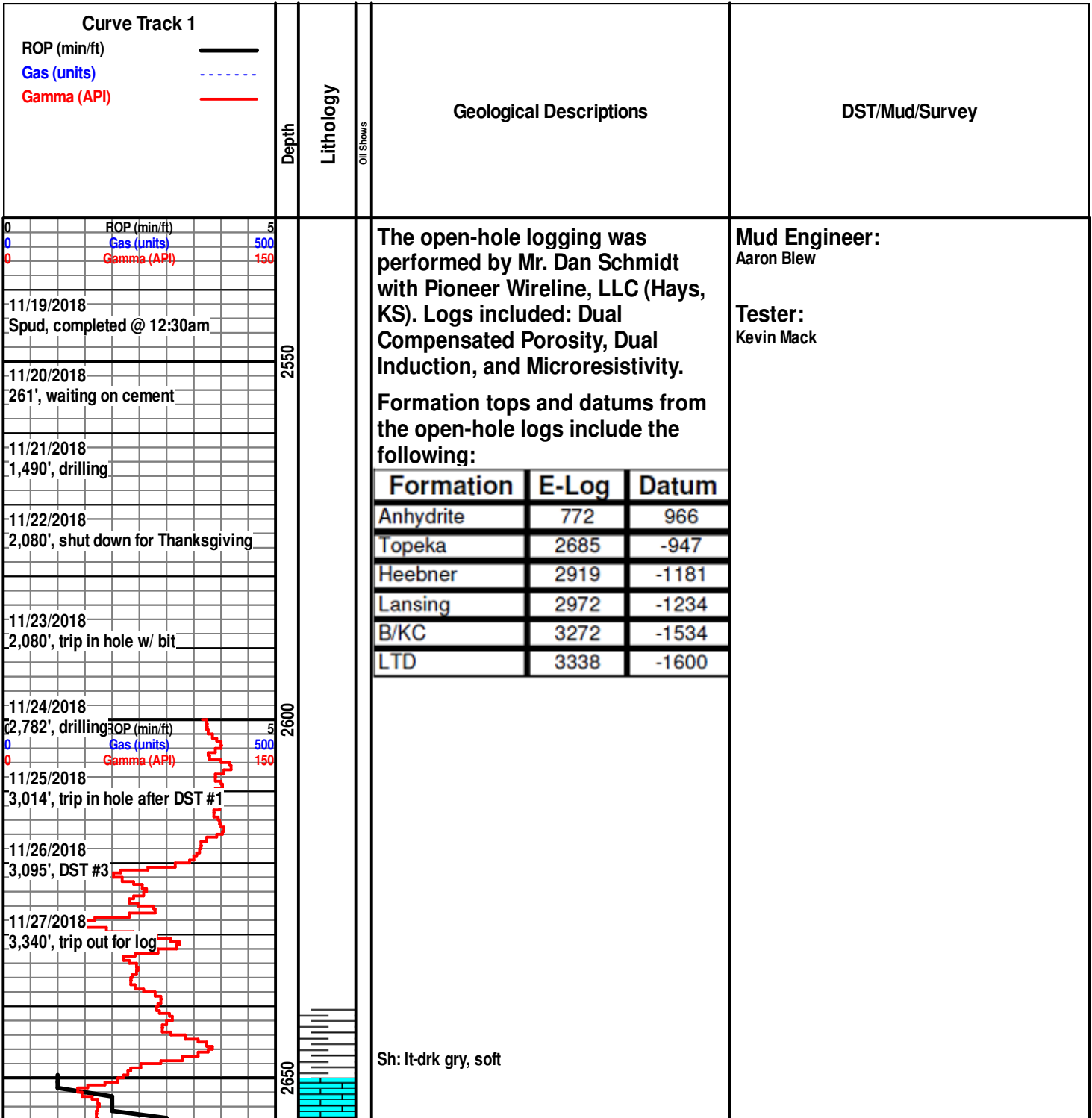
The location for the Ulrich B #1 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 2,600' - 3,340'. Oil shows were encountered in LKC B,C, & G. Structurally, the Lansing top was picked 8' high to the comparison well, Bratton #1 (Warren Oil Co.). Slight structural thinning occurred through the LKC and the B/KC was picked 11' high to the comparison well. After evaluation of all oil shows, drill stem test results, & electric logs, the decision was made to plug and abandon the Ulrich B #1 on

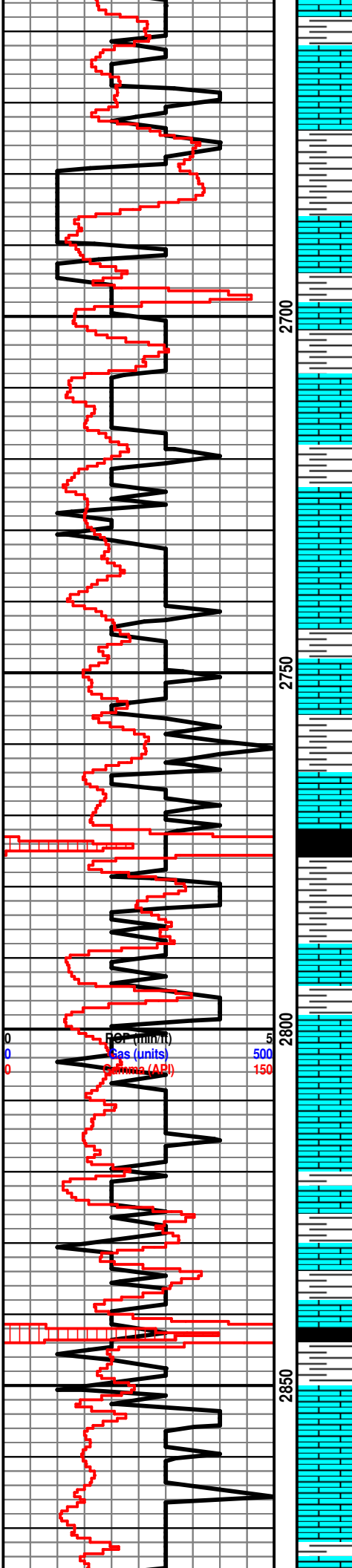
**ROCK TYPES**

Anhy	Clyst	Gyp	Mrlst	Shgy
Bent	Coal	Igne	Salt	Sltst
Brec	Congl	Lmst	Shale	Ss
Cht	Dol	Meta	Shcol	Till

**OTHER SYMBOLS**

<b>POROSITY</b>	<input checked="" type="checkbox"/> Vuggy	<b>ROUNDING</b>	Spotted	<b>EVENT</b>
<input type="checkbox"/> Earthy	<b>SORTING</b>	<input type="checkbox"/> Rounded	<input type="checkbox"/> Ques	<input type="checkbox"/> Rft
<input type="checkbox"/> Fenest	<input type="checkbox"/> Well	<input type="checkbox"/> Subrnd	<input type="checkbox"/> Dead	<input type="checkbox"/> Sidewall
<input type="checkbox"/> Fracture	<input type="checkbox"/> Moderate	<input type="checkbox"/> Subang	<b>INTERVAL</b>	
<input type="checkbox"/> Inter	<input type="checkbox"/> Poor	<input type="checkbox"/> Angular	<input type="checkbox"/> Core	
<input type="checkbox"/> Moldic		<b>OIL SHOW</b>	<input type="checkbox"/> Dst	
<input type="checkbox"/> Organic		<input checked="" type="checkbox"/> Even		
<input type="checkbox"/> Pinpoint				





Ls: tan-gry, fn-sub xln, mostly DNS, scat chalk

Sh: lt gry, soft

**Topeka 2689' (-951)**

Ls: tan-gry, fn-sub xln, mostly DNS

Ls: lt gry, fn-sub xln, mostly DNS, scat pyrite

Ls: tan-lt gry, fn xln, scat foss, scat int xln & int foss porosity, mostly barren, chert-off wh

Sh: lt-drk gry

Ls: lt gry-tan, fn xln, poor int xln & scat vuggy porosity, barren, scat sltst

Sh: lt-drk gry, soft

Ls: tan-lt gry, fn xln, scat foss, mostly DNS, barren, chert-off wh

Sh: drk gry-blk

Ls: tan-lt gry, fn-sub xln, mostly DNS, barren, scat sltst

Ls: off wh-tan, fn xln, scat int xln & vuggy porosity, barren, scat chert-off wh

Ls: ala

Ls: tan-lt gry, fn-sub xln, mostly DNS, barren

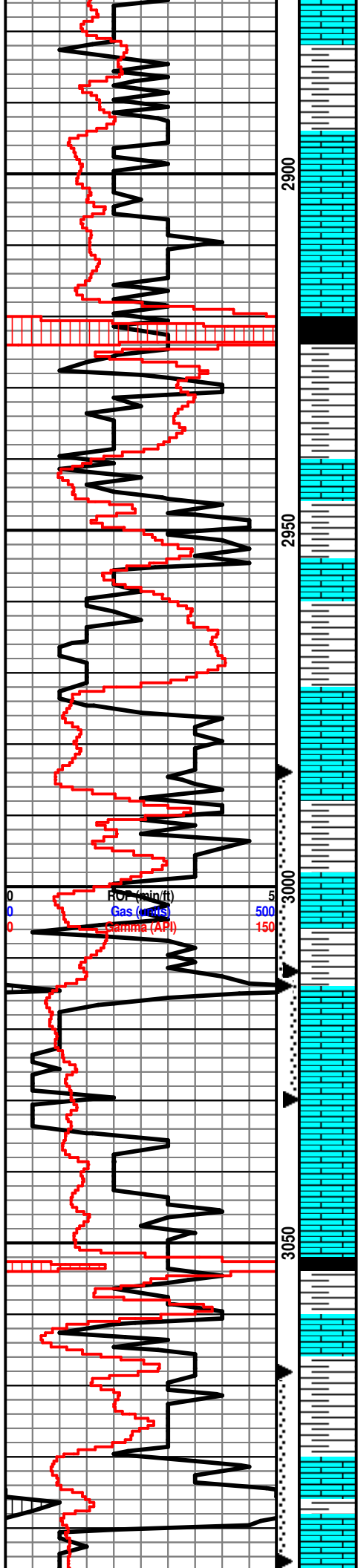
Sh: drk gry-blk

Ls: tan-lt gry, fn-sub xln, scat foss, mostly DNS, barren

Ls: ala, scat chert-off wh

Wt: 8.7  
Vis: 60





Ls: tan-gry, fn xln, scat int vuggy porosity, mostly barren, chalky, scat chert-off wh

Sh: lt-drk gry

Ls: off wh-tan, fn xln, scat foss, poor-fair int xln porosity, scat dead oil stn, NSFO, scat chalk

**Heebner 2925' (-1187)**

Sh: blk, carb

Sh: lt-drk gry

Ls: off wh-tan, fn xln, poor int xln porosity, barren, scat chalk, NSFO

Sh: lt-drk gry, soft

Sh: ala

**Lansing 2975' (-1237)**

Ls: off wh-tan, fn-sub xln, mostly DNS, barren, scat sh: lt gry

Ls: ala

Sh: lt-drk gry

Ls: off wh-tan, fn xln, few rxs ool, poor oom porosity, scat vuggy porosity, fair-good oil sat, S-FSFO when broken, SO in cup, fair odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, scat oil stn in few rxs, most barren, vry fnt odor

Ls: off wh-tan, fn xln, scat int xln porosity, barren

Ls: off wh-tan, fn-sub xln, mostly DNS, NSFO

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor int xln & scat vuggy porosity, barren, scat foss

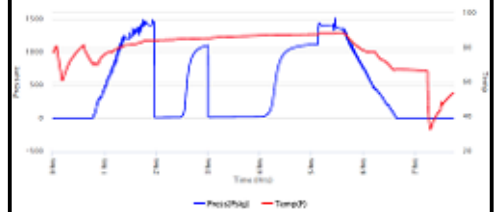
Sh: lt-drk gry

Ls: off wh-tan, fn xln, foos, poor int xln porosity, NSFO

Ls: off wh-tan, fn xln, ool, fair-good oom porosity, vry lt oil stn in few rxs, VSSFO, most rxs barren, fnt odor

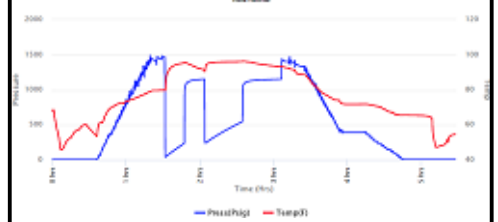
**DST #1 2,984-3,014' Lansing B**  
30"-30"-60"-60"

IF: weak blow built to 1.1", no blow back on shut in  
 FF: weak blow built to 3", no blow back on shut in  
 Rec: 25' Water & Oil Cut Mud (23% W, 27% O, 50% M)  
 FP: 10-14, 15-21#  
 SIP: 1,101-1,122#  
 HP: 1,417-1,407#  
 BHT: 88°



**DST #2 3,021-3,030' Lansing C**  
15"-15"-30"-30"

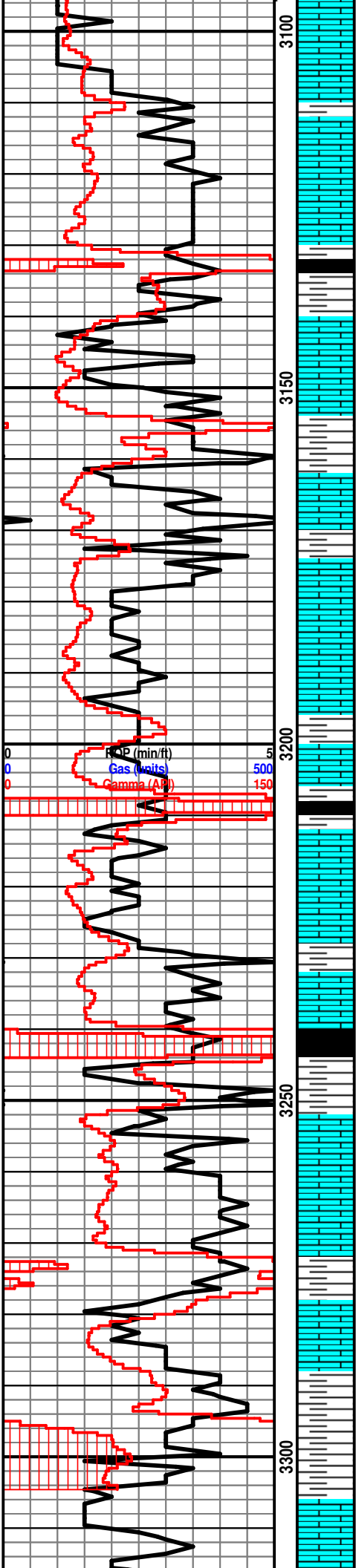
IF: blow built to 41.9", 4" blow back on shut in  
 FF: blow built to 130.8", .1" blow back on shut in  
 Rec: 1,074' Mud Cut Water (2-20% M, 80-98% W)  
 FP: 36-227, 243-536#  
 SIP: 1,151-1,151#  
 HP: 1,417-1,413#  
 BHT: 96° F



**DST #3 3,068-3,095' Lansing G**  
30"-30"-60"-60"

IF: weak blow built to 1.5", surface blow back on shut in  
 FF: weak blow built to 2", surface blow back on shut in  
 Rec: 25' Oil Spotted Watery Mud (10% W, 90% M)  
 FP: 12-15, 15-19#  
 SIP: 1,083-1,111#  
 HP: 1,486-1,450#  
 BHT: 83°





Ls: off wh-tan, fn xln, ool, barren

Ls: off wh-tan-gry, fn-sub xln, scat foss, NSFO

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor int xln porosity, barren, scat foss

Sh: lt-drk gry

Ls: off wh-tan, fn xln, foss, scat int vuggy porosity, mostly barren

Sh: lt-drk gry

Ls: off wh-tan, fn xln, few rxs ool, poor-fair int xln porosity, mostly barren, hvy pyrite, scat sh: drk gry

Sh: lt-drk gry

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor-scat fair int xln porosity, mostly barren, scat chert-off wh, hvy sh: drk gry

Sh: lt-drk gry

Sh: drk gry-blk

Sh: lt-drk gry-brn

Ls: off wh-tan, fn xln, scat int xln porosity, hvy pyrite, scat sh: drk gry

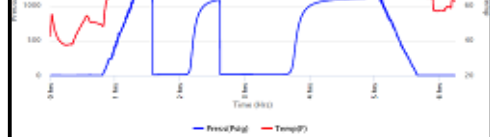
**B/KC 3277' (-1539)**

Sh: lt-drk gry, soft

Ls: tan-gry, fn-sub xln, DNS, scat chert-off wh

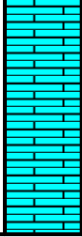
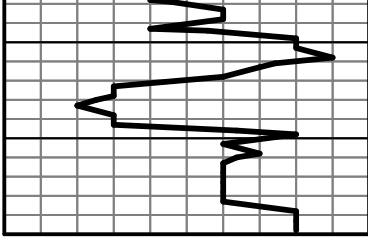
Sh: lt-drk gry, soft

Ls: tan-gry, sub xln, DNS



Wt: 8.8

Vis: 40



Ls: ala

Wt: 9.2  
Vis: 42



# Company: John O. Farmer, Inc Lease: Ulrich B #1

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc - Rig 2  
Elevation: 1723 Est  
Field Name: Wildcat  
Pool: Wildcat  
Job Number: 286

**Operation:**  
Uploading recovery & pressures

**DATE**  
November  
**25**  
2018

**DST #1    Formation: LKC "B"    Test Interval: 2984 - 3014'    Total Depth: 3014'**

Time On: 00:30 11/25    Time Off: 08:01 11/25  
Time On Bottom: 02:24 11/25    Time Off Bottom: 05:24 11/25

Electronic Volume Estimate:  
32'

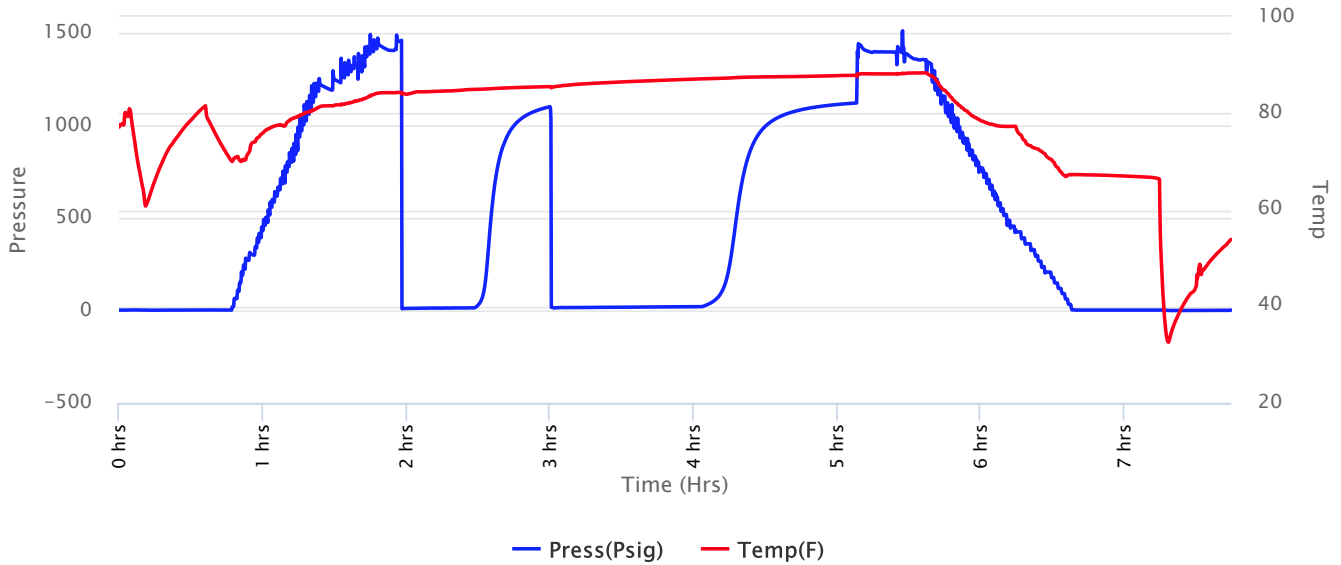
1st Open  
Minutes: 30  
Current Reading:  
1.1" at 30 min  
Max Reading: 1.1"

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

2nd Open  
Minutes: 60  
Current Reading:  
3" at 60 min  
Max Reading: 3"

2nd Close  
Minutes: 60  
Current Reading:  
0" at 60 min  
Max Reading: 0"

Inside Recorder





**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
 County: RUSSELL  
 State: Kansas  
 Drilling Contractor: Royal Drilling, Inc - Rig 2  
 Elevation: 1723 Est  
 Field Name: Wildcat  
 Pool: Wildcat  
 Job Number: 286

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**25**  
 2018

**DST #1**      **Formation: LKC "B"**      **Test Interval: 2984 - 3014'**      **Total Depth: 3014'**  
 Time On: 00:30 11/25      Time Off: 08:01 11/25  
 Time On Bottom: 02:24 11/25      Time Off Bottom: 05:24 11/25

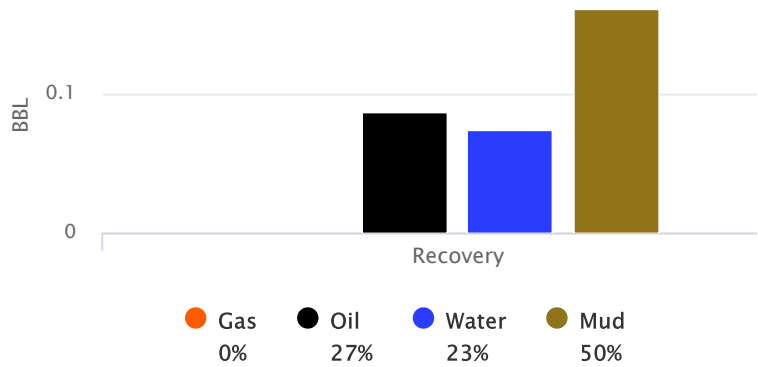
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
25	0.3225	WCOCM	0	27	23	50

Total Recovered: 25 ft  
 Total Barrels Recovered: 0.3225

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1417	PSI
Initial Flow	10 to 14	PSI
<b>Initial Closed in Pressure</b>	<b>1101</b>	<b>PSI</b>
Final Flow Pressure	15 to 21	PSI
<b>Final Closed in Pressure</b>	<b>1122</b>	<b>PSI</b>
Final Hydrostatic Pressure	1407	PSI
Temperature	88	°F
Pressure Change Initial Close / Final Close	0.0	%



**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc -  
Rig 2  
Elevation: 1723 Est  
Field Name: Wildcat  
Pool: Wildcat  
Job Number: 286

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**25**  
2018

**DST #1      Formation: LKC "B"      Test Interval: 2984 -      Total Depth: 3014'**  
**3014'**  
Time On: 00:30 11/25      Time Off: 08:01 11/25  
Time On Bottom: 02:24 11/25      Time Off Bottom: 05:24 11/25

**BUCKET MEASUREMENT:**

1st Open: Surface blow built to 1 1/8" over 39 min.  
1st Close: No Return  
2nd Open: Surface blow started at 2 min. Built to 3" over 60 min.  
2nd Close: No return

**REMARKS:**

Tool Sample: 0% Gas 22% Oil 23% Water 55% Mud  
Measured RW: .32 @ 31 degrees °F  
RW at Formation Temp: 0.128 @ 88 °F  
Chlorides: 32000 ppm



**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc - Rig 2  
Elevation: 1723 Est  
Field Name: Wildcat  
Pool: Wildcat  
Job Number: 286

**Operation:**  
Uploading recovery & pressures

**DATE**  
November  
**25**  
2018

**DST #1      Formation: LKC "B"      Test Interval: 2984 - 3014'      Total Depth: 3014'**  
Time On: 00:30 11/25      Time Off: 08:01 11/25  
Time On Bottom: 02:24 11/25      Time Off Bottom: 05:24 11/25

**Down Hole Makeup**

<b>Heads Up:</b> 27.89 FT	<b>Packer 1:</b> 2979 FT
<b>Drill Pipe:</b> 2986.73 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 2984 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 2971 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 1 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 30	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 29 FT <i>4 1/2-FH</i>	



**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc -  
Rig 2  
Elevation: 1723 Est  
Field Name: Wildcat  
Pool: Wildcat  
Job Number: 286

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**25**  
2018

**DST #1**      **Formation: LKC "B"**      **Test Interval: 2984 -**  
**3014'**      **Total Depth: 3014'**  
Time On: 00:30 11/25      Time Off: 08:01 11/25  
Time On Bottom: 02:24 11/25      Time Off Bottom: 05:24 11/25

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.7      **Viscosity:** 60      **Filtrate:** 7.2      **Chlorides:** 4500 ppm





**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
 County: RUSSELL  
 State: Kansas  
 Drilling Contractor: Royal Drilling, Inc - Rig 2  
 Elevation: 1723 Est  
 Field Name: Wildcat  
 Pool: Wildcat  
 Job Number: 286

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**25**  
 2018

**DST #2    Formation: LKC "C"    Test Interval: 3021 - 3030'    Total Depth: 3030'**

Time On: 16:26 11/25    Time Off: 21:45 11/25  
 Time On Bottom: 17:56 11/25    Time Off Bottom: 19:36 11/25

Electronic Volume Estimate:  
 1274'

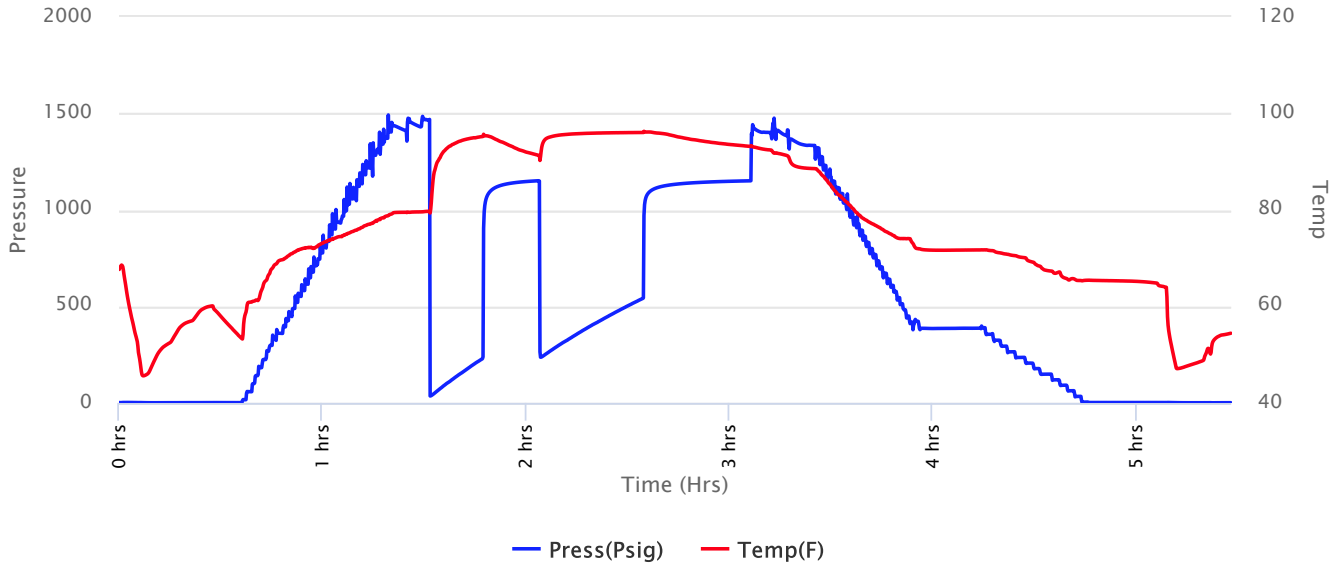
1st Open  
 Minutes: 15  
 Current Reading: 41.9" at 15 min  
 Max Reading: 41.9"

1st Close  
 Minutes: 15  
 Current Reading: 4" at 15 min  
 Max Reading: 4"

2nd Open  
 Minutes: 30  
 Current Reading: 130.8" at 30 min  
 Max Reading: 130.8"

2nd Close  
 Minutes: 30  
 Current Reading: .1" at 30 min  
 Max Reading: .1"

Inside Recorder





**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
 County: RUSSELL  
 State: Kansas  
 Drilling Contractor: Royal Drilling, Inc - Rig 2  
 Elevation: 1723 Est  
 Field Name: Wildcat  
 Pool: Wildcat  
 Job Number: 286

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**25**  
 2018

**DST #2    Formation: LKC "C"    Test Interval: 3021 - 3030'    Total Depth: 3030'**

Time On: 16:26 11/25    Time Off: 21:45 11/25  
 Time On Bottom: 17:56 11/25    Time Off Bottom: 19:36 11/25

Recovered

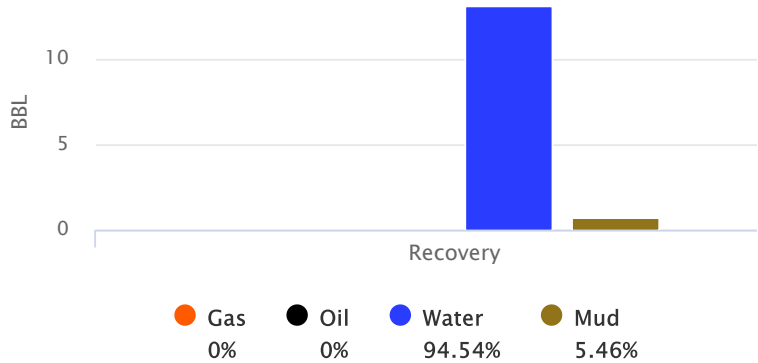
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
114	1.4706	MCW	0	0	80	20
128	1.6512	SLMCW	0	0	87	13
256	3.3024	SLMCW	0	0	97	3
576	7.4304	SLMCW	0	0	98	2

Total Recovered: 1074 ft  
 Total Barrels Recovered: 13.8546

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1417	PSI
Initial Flow	36 to 227	PSI
<b>Initial Closed in Pressure</b>	<b>1151</b>	<b>PSI</b>
Final Flow Pressure	243 to 536	PSI
<b>Final Closed in Pressure</b>	<b>1151</b>	<b>PSI</b>
Final Hydrostatic Pressure	1413	PSI
Temperature	96	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**





**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc -  
Rig 2  
Elevation: 1723 Est  
Field Name: Wildcat  
Pool: Wildcat  
Job Number: 286

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**25**  
2018

**DST #2      Formation: LKC "C"      Test Interval: 3021 -      Total Depth: 3030'**  
**3030'**  
Time On: 16:26 11/25      Time Off: 21:45 11/25  
Time On Bottom: 17:56 11/25      Time Off Bottom: 19:36 11/25

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: BoB in 1 min 40 sec. Built to 41.9" in 15 min.

1st Close: Return built to 4"

2nd Open: BoB in 1 min 42 sec. Built to 130.8" over 30 min.

2nd Close: Surface Return started at 6 min. Did not build or die.

**REMARKS:**

Tool Sample: 0% Gas 0% Oil 88% Water 12% Mud

Measured RW: .22 @ 42 degrees °F

RW at Formation Temp: 0.104 @ 96 °F

Chlorides: 55,000 ppm



**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
 County: RUSSELL  
 State: Kansas  
 Drilling Contractor: Royal Drilling, Inc -  
 Rig 2  
 Elevation: 1723 Est  
 Field Name: Wildcat  
 Pool: Wildcat  
 Job Number: 286

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**25**  
 2018

**DST #2**    **Formation: LKC "C"**    **Test Interval: 3021 - 3030'**    **Total Depth: 3030'**  
 Time On: 16:26 11/25    Time Off: 21:45 11/25  
 Time On Bottom: 17:56 11/25    Time Off Bottom: 19:36 11/25

**Down Hole Makeup**

<b>Heads Up:</b> 31.89 FT	<b>Packer 1:</b> 3016 FT
<b>Drill Pipe:</b> 3027.73 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3021 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3008 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3023 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 18	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	
<b>Packer Sub:</b> 1 FT	<b>Bottom Choke:</b> 5/8"
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 17 FT <i>4 1/2-FH</i>	



**Company: John O. Farmer, Inc**  
**Lease: Ulrich B #1**

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc -  
Rig 2  
Elevation: 1723 Est  
Field Name: Wildcat  
Pool: Wildcat  
Job Number: 286

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**25**  
2018

**DST #2      Formation: LKC "C"      Test Interval: 3021 -      Total Depth: 3030'**  
**3030'**

Time On: 16:26 11/25      Time Off: 21:45 11/25  
Time On Bottom: 17:56 11/25      Time Off Bottom: 19:36 11/25

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.7      **Viscosity:** 60      **Filtrate:** 7.2      **Chlorides:** 4500 ppm



**Company: John O. Farmer, Inc**  
**Lease: Ulrich "B" #1**

SEC: 25 TWN: 11S RNG: 13W  
 County: RUSSELL  
 State: Kansas  
 Drilling Contractor: Royal Drilling, Inc - Rig 2  
 Elevation: 1723 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 286

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**26**  
 2018

**DST #3    Formation: LKC "G"    Test Interval: 3068 - 3095'    Total Depth: 3095'**

Time On: 09:00 11/26    Time Off: 15:04 11/26  
 Time On Bottom: 10:33 11/26    Time Off Bottom: 13:33 11/26

Electronic Volume Estimate:  
 29'

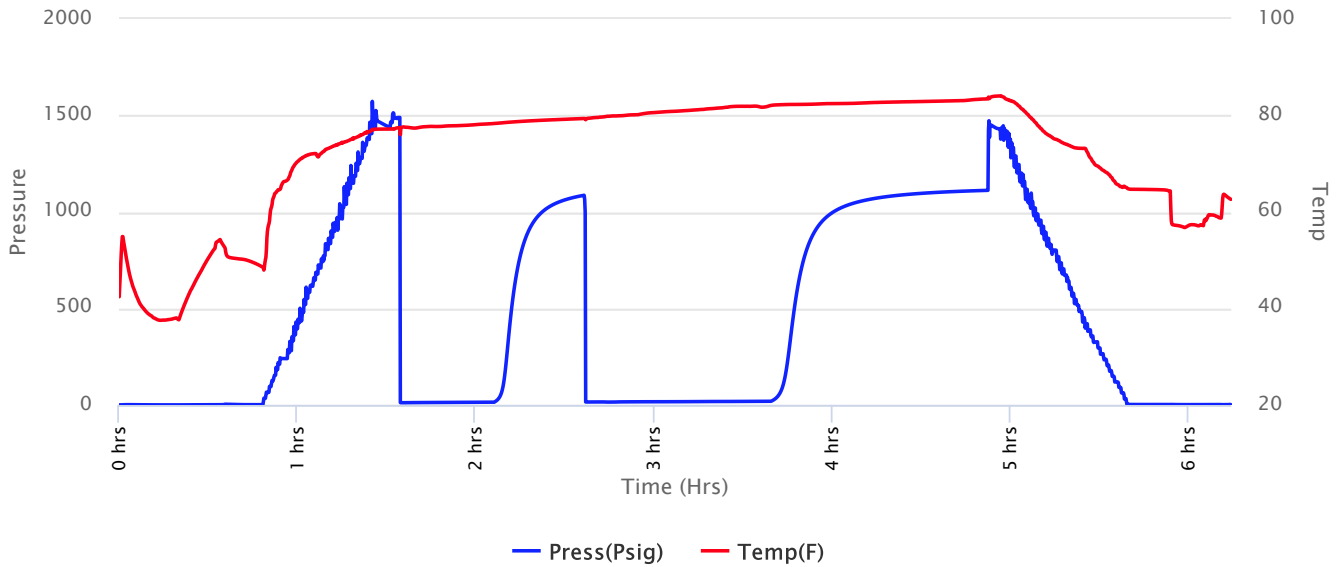
1st Open  
 Minutes: 30  
 Current Reading:  
 1.5" at 30 min  
 Max Reading: 1.5"

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

2nd Open  
 Minutes: 60  
 Current Reading:  
 2" at 60 min  
 Max Reading: 2"

2nd Close  
 Minutes: 60  
 Current Reading:  
 .1" at 60 min  
 Max Reading: .1"

Inside Recorder





**Company: John O. Farmer, Inc**  
**Lease: Ulrich "B" #1**

SEC: 25 TWN: 11S RNG: 13W  
 County: RUSSELL  
 State: Kansas  
 Drilling Contractor: Royal Drilling, Inc - Rig 2  
 Elevation: 1723 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 286

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 November  
**26**  
 2018

**DST #3 Formation: LKC "G" Test Interval: 3068 - 3095' Total Depth: 3095'**  
 Time On: 09:00 11/26 Time Off: 15:04 11/26  
 Time On Bottom: 10:33 11/26 Time Off Bottom: 13:33 11/26

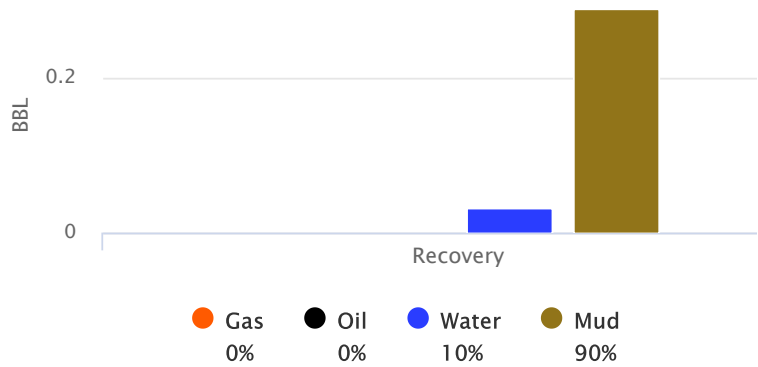
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
25	0.3225	SLWCHMCO	0	spots	10	90

Total Recovered: 25 ft  
 Total Barrels Recovered: 0.3225

**Reversed Out**  
**NO**

**Recovery at a glance**



Initial Hydrostatic Pressure	1486	PSI
Initial Flow	12 to 15	PSI
<b>Initial Closed in Pressure</b>	<b>1083</b>	<b>PSI</b>
Final Flow Pressure	15 to 19	PSI
<b>Final Closed in Pressure</b>	<b>1111</b>	<b>PSI</b>
Final Hydrostatic Pressure	1450	PSI
Temperature	83	°F
Pressure Change Initial Close / Final Close	0.0	%



**Company: John O. Farmer, Inc**  
**Lease: Ulrich "B" #1**

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc -  
Rig 2  
Elevation: 1723 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 286

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**26**  
2018

**DST #3      Formation: LKC "G"      Test Interval: 3068 -      Total Depth: 3095'**  
**3095'**  
Time On: 09:00 11/26      Time Off: 15:04 11/26  
Time On Bottom: 10:33 11/26      Time Off Bottom: 13:33 11/26

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 1/2" Blow built to 1 1/2" over 30 min.

1st Close: Surface Return started at 12 min. Did not build or die.

2nd Open: Surface blow built to 2" over 60 min.

2nd Close: Surface Return started at 20 min. Built to 1/8" over 60 min

**REMARKS:**

Tool Sample: 0% Gas spots% Oil 30% Water 70% Mud

Measured RW: .22 @ 55 degrees °F

RW at Formation Temp: 0.151 @ 83 °F

Chlorides: 38000 ppm





**Company: John O. Farmer, Inc**  
**Lease: Ulrich "B" #1**

SEC: 25 TWN: 11S RNG: 13W  
 County: RUSSELL  
 State: Kansas  
 Drilling Contractor: Royal Drilling, Inc -  
 Rig 2  
 Elevation: 1723 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 286

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**26**  
 2018

**DST #3 Formation: LKC "G" Test Interval: 3068 - Total Depth: 3095'**  
**3095'**  
 Time On: 09:00 11/26 Time Off: 15:04 11/26  
 Time On Bottom: 10:33 11/26 Time Off Bottom: 13:33 11/26

**Down Hole Makeup**

<b>Heads Up:</b> 7.96 FT	<b>Packer 1:</b> 3063 FT
<b>Drill Pipe:</b> 3050.8 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3068 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3055 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3070 FT
<b>Test Tool:</b> 26.16 FT <i>ID-3 1/2-FH</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 27	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"
<b><u>Anchor Makeup</u></b>	
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 26 FT <i>4 1/2-FH</i>	



**Company: John O. Farmer, Inc**  
**Lease: Ulrich "B" #1**

SEC: 25 TWN: 11S RNG: 13W  
County: RUSSELL  
State: Kansas  
Drilling Contractor: Royal Drilling, Inc -  
Rig 2  
Elevation: 1723 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 286

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**26**  
2018

**DST #3      Formation: LKC "G"      Test Interval: 3068 -      Total Depth: 3095'**  
**3095'**

Time On: 09:00 11/26      Time Off: 15:04 11/26  
Time On Bottom: 10:33 11/26      Time Off Bottom: 13:33 11/26

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.8      **Viscosity:** 40      **Filtrate:** 8.8      **Chlorides:** 10,500 ppm