KOLAR Document ID: 1450665

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 #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City: State: Zip:	+ Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	NE NW SE SW
CONTRACTOR: License #	
Name:	
Wellsite Geologist:	
Purchaser:	
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Wo	rkover Field Name:
☐ Oil ☐ WSW ☐ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Dep	oth:
	Conv. to SWD Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume: bbls
	Dewatering method used:
SWD Permit #:	
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Comp	Quarter Sec. Twp. S. R. East West
·	mpletion Date 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:

KOLAR Document ID: 1450665

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	ad Paraant Additivas	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u	Type and Percent Additives			
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Farmer, John O., Inc.
Well Name	ULRICH A 1
Doc ID	1450665

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.25	8.625	23	263	80/20 Pozmix	3% C.C., 2% gel

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. 1053

Oeii 703-324-1041			,	····				
Sec.	Twp.	Range	A	County	State	On Location	Finish	
Date 11-2-18 31		<u>12</u>		sell	KS		2115Am	
		****	Location	on Kussell 1	1 Ambest RD	E to Bunkerhin	LED JUTE	
Lease Upich	A We	ell No. [Owner			Sinto	
Contractor Royal					ilwell Cementing, Inc	cementing equipmen	t and furnish	
Type Job Serface				cementer an	d helper to assist ow	ner or contractor to d	o work as listed.	
Hole Size 1214	T.D. 2	45		Charge -	50. Farme	L.		
Csg. 45/8	Depth 2	<u>63</u>		Street				
Tbg. Size	Depth			City		State		
Tool	Depth			The above wa	s done to satisfaction a	and supervision of owner	agent or contractor.	
Cement Left in Csg. 10	Shoe Join	<u>it</u>		Cement Amo	ount Ordered 160	7 8/20 3/-10	21.652	
Meas Line	Displace	16BC						
EQUIPK	<i>f</i>			Common &	130 <u>130</u>			
Pumptrk Helper	219			Poz. Mix 🏈	730			
Bulktrk No. Driver Driver				Gel.	3			
Bulktrk 9 No. Driver Driver	m/			Calcium (6			
JOB SERVICES	& REMARI	<s< td=""><td></td><td>Hulls</td><td></td><td></td><td></td></s<>		Hulls				
Remarks:	÷			Salt				
Rat Hole				Flowseal				
Mouse Hole				Kol-Seal				
Centralizers				Mud CLR 48	3			
Baskets				CFL-117 or	CD110 CAF 38			
D/V or Port Gollar	****			Sand	e e e e e e e e e e e e e e e e e e e			
25/8 on bottom B	St. / ine	aulation	. \$	Handling /	69	4. July 1. 1. 4.		
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				Centralizer				
				Baskets				
	V 9			AFU Inserts				
1/2 (1	IN 17			Float Shoe				
7110		i i i i i i i i i i i i i i i i i i i		Latch Down		And the state of t		
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	Since Since	Rath Said						
$\mathcal{L}_{\mathcal{A}}$				Pumptrk Ch	arge Gunface			
				Mileage /	8			
					`	Tax	(
						Discoun	t	
X Signature						Total Charge	>	

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-2025 Cell 785-324-1041	Home	Office F	P.O. Box	32 Ru	ssell, KS 6766	6 5		Vo.	114	5
Date 11-8-18 Sec. 31	Twp. F	lange	Russa	-	State \$\int 3		On Locatio	n \	Finis 2 to) PM
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Lease Wrich A	Well I	vo.		_{vner} Š∤				· · · · · · · · · · · · · · · · · · ·	·	
Contractor Roual #2					Dilwell Cementing, reby requested to		entina equir	ment a	and formis	:h
Type Job Plum					nd helper to assis					
Hole Size 77/31	T.D.	360 ₁₀	Cł To	arge	John C) F	armes	^		
Csg.	Depth		St	eet		•	· ·	····		
Tbg. Size 46 D. P.	Depth \	<u> 746,</u>	Ci	У		Sta	ate			
Tool	Depth		Th	e above w	as done to satisfact	ion and su	pervision of o	owner a	gent or co	ntractor.
Cement Left in Csg.	Shoe Joint		C	ement An	nount Ordered	<u>US</u>	60/40	4%	Gel	14HFD
Meas Line	Displace	Hw.				·				sea
EQUIPN	//ENT		C	mmon /	123					
	aig		P	z. Mix	82					
Bulktrk / / No. Driver On	3 1		G	el. 7	<u> </u>					
Bulletrk P. U.No. Driver Driver	74	·	С.	alcium						
/ JOB SERVICES			Н	ılls	· · · · · · · · · · · · · · · · · · ·					
Remarks: 1740 -	50 3X		S	alt						<u></u>
Rat Hole 4701- /	505X		FI	owseal	50H					
Mouse Hole 40' -/	0 5× 1	ulolu	g K	ol-Seal						
Centralizers Rankle	2/305	χ'	(/ M	ud CLR-4	18					
Baskets Mousehole	W/15 S	χ	С	= L- 117 o	CD110 CAF 38					
D/V or Port Collar			s	and	es de la companya de					
Cement did	Cocarlo	<i>#6</i>	. Н	andling	212	gere Va _{lak}	and the			
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1/100							Dis	count	· · · · · · · · · · · · · · · · · · ·	
X Signature							Total Cl	harge		***************************************
<u> </u>							,	· [



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 A #1
Location: Russell County

License Number: API #15-167-24078-00-00 Region: Kansas

Spud Date: 11/1/2018 Drilling Completed: 11/8/2018

Surface Coordinates: Section 31, Township 11 South, Range 12 West

2.260' FNL & 2.310' FWL

Bottom Hole Vertical well w/ minimal deviation, same as above

Coordinates:

Ground Elevation (ft): 1,714 K.B. Elevation (ft): 1,721 Logged Interval (ft): 2,600 To: RTD Total Depth (ft): 3,300

Formation: LKC

Type of Drilling Fluid: Chemical (Andy's Mud)

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

OPERATOR

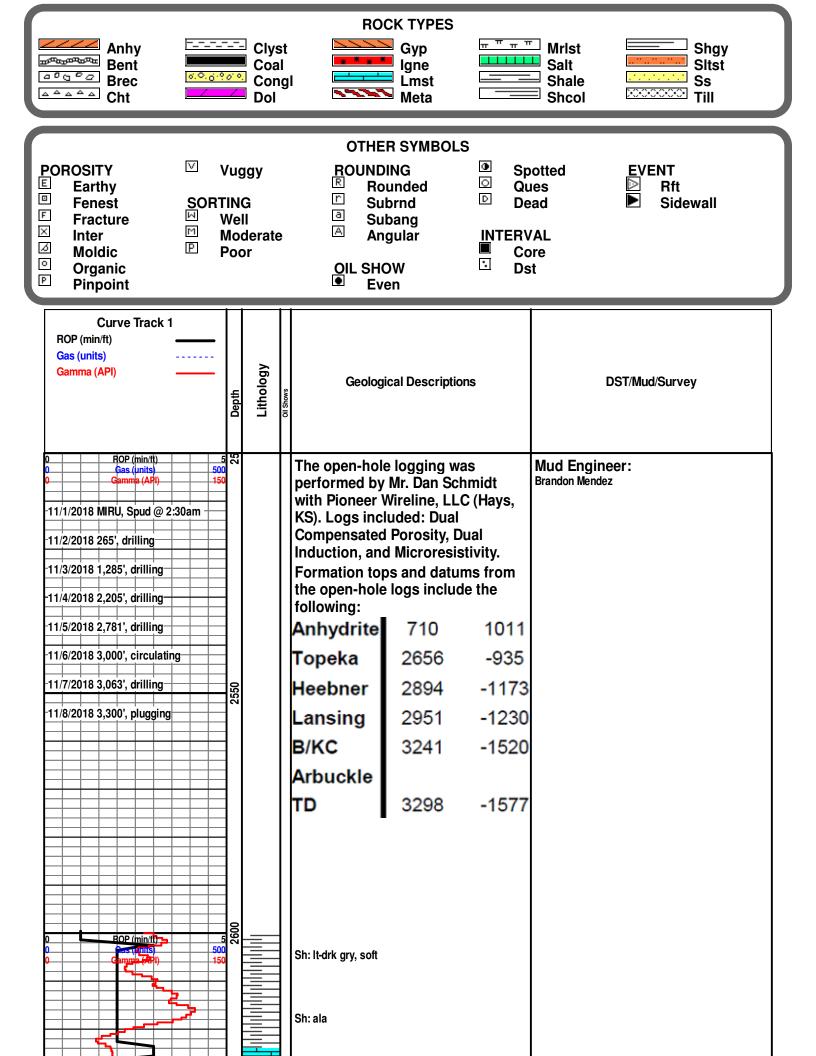
Company: John O. Farmer, Inc. Address: 370 W. Wichita Ave.

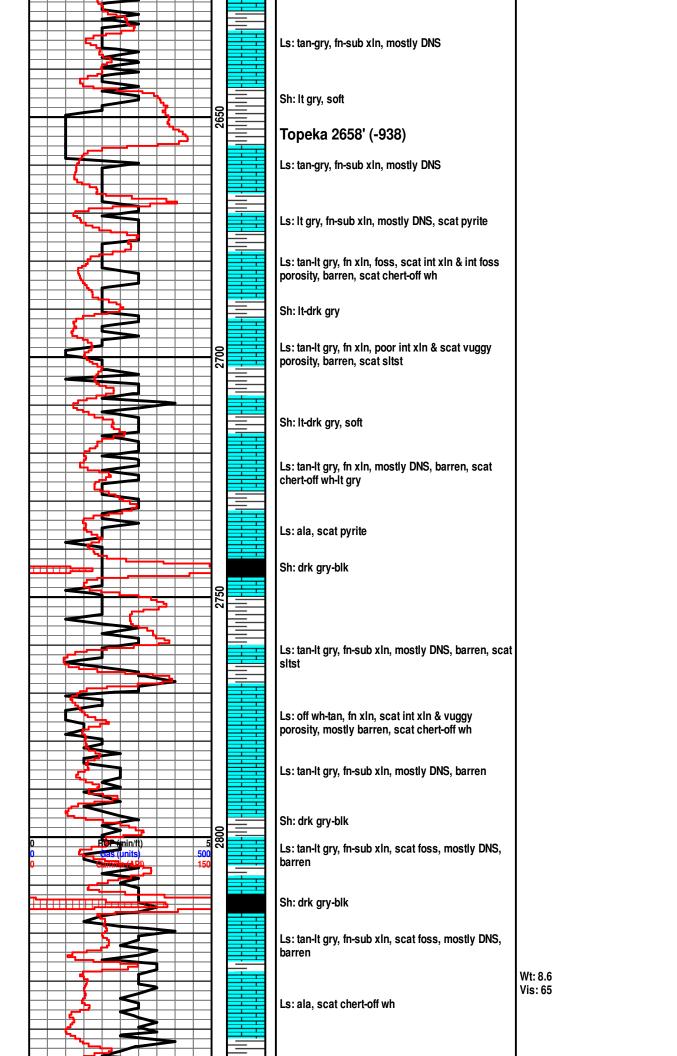
Russell, KS 67665

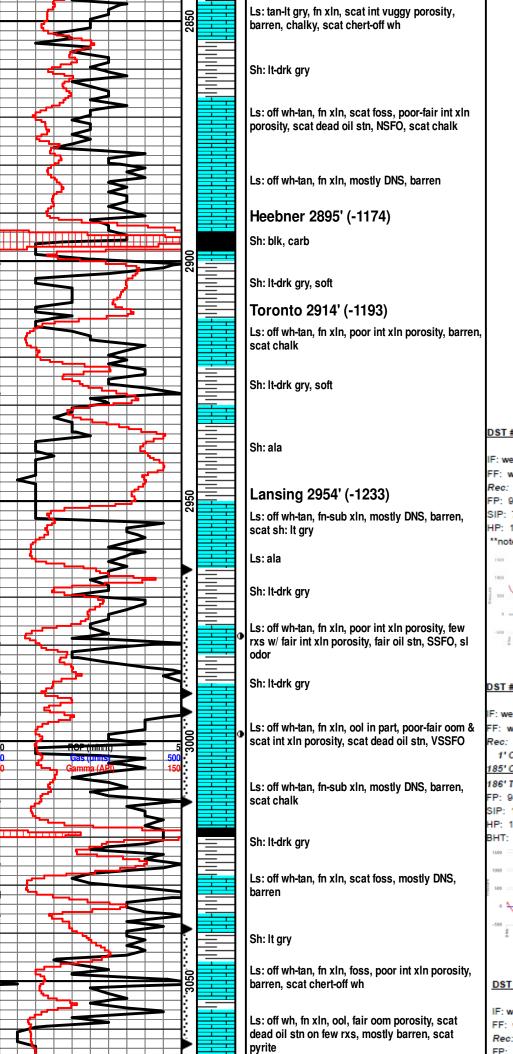
Comments

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

The location for the Ulrich A#1 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 2,600' - 3,330'. Oil shows were encountered in LKC B,C, & G. Structurally, the Lansing top was picked 3' low to the comparison well, Strecker #4. Slight structural thinning occurred through the LKC and the B/KC was picked 1' low 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 A#1 on 11/8/2018.







DST #1 2,964-2,990' Lansing B

30"-30"-60"-60"

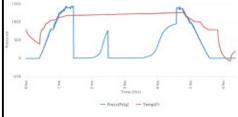
F: weak blow built to 1.25", no blow back on shut in

F: weak blow built to .75"

Rec: 10' Oil & Gas Cut Mud (10% G, 10% O, 80% M

FP: 9-11, 11-14# SIP: 771-959# HP: 1,401-1,399

**note: tool sample (2% G, 18% O, 80% M)



DST #2 2,994-3,012' Lansing C

30"-30"-60"-60"

F: weak blow built to 9.6", surface blow back on shut i

FF: weak blow built to 16.1", no blow back on shut in

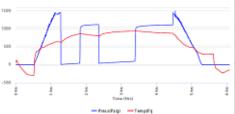
Rec: 3' Gas in Pipe 1' Clean Oil

185' Oil & Gas Cut Water (10% G, 10% O, 80% W)

186' Total Fluid Recovery

FP: 9-41, 42-99# SIP: 1,121-1,109# HP: 1,405-1,405

BHT: 96° F

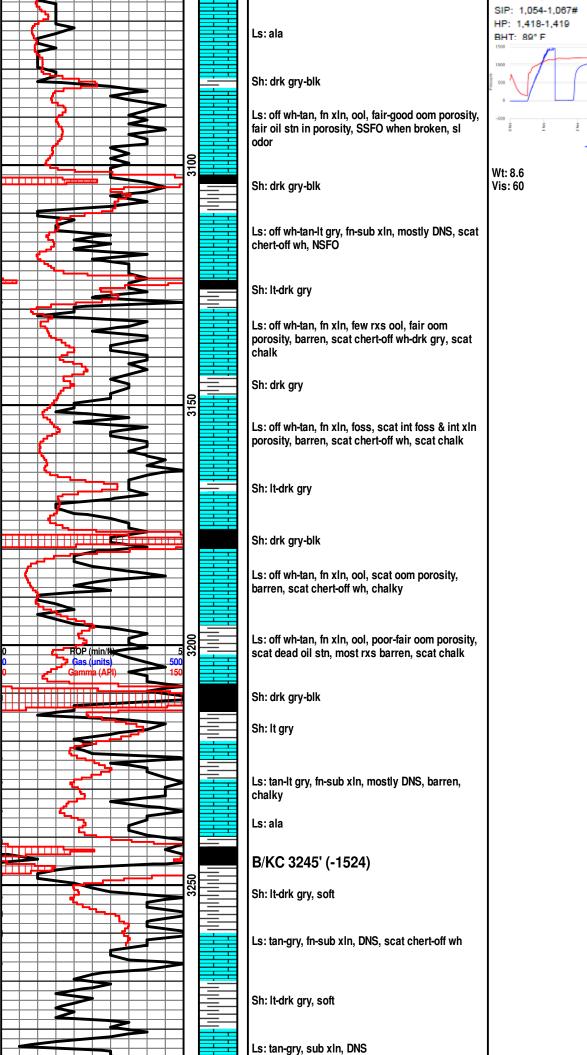


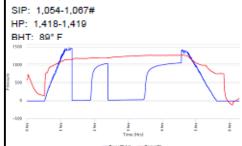
DST #3 3,039-3,063' Lansing G

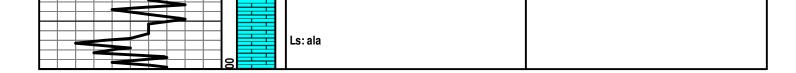
30"-30"-60"-60"

IF: weak blow built to 3", no blow back on shut in FF: weak blow built to 3.9", no blow back on shut in Rec: 56'Mud Cut Water (25% M, 75% W)

FP: 10-21, 20-34#









Operation:

Uploading recovery &

pressures

Company: John O. Farmer, Inc Lease: Ulrich A-1

SEC: 31 TWN: 11S RNG: 12W

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 Est Field Name: Hegarty Pool: Wildcat Job Number: 266

DATE November 05

2018

DST #1 Formation: Lans B

Test Interval: 2964 -

Total Depth: 2990'

2990'

Time On: 22:07 11/05

Time Off: 04:19 11/06

Time On Bottom: 23:34 11/05 Time Off Bottom: 02:34 11/06

Electronic Volume Estimate:

17'

1st Open Minutes: 30 Current Reading:

1.3" at 30 min

Max Reading: 1.3"

1st Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

2nd Open Minutes: 60

Current Reading:

.8" at 60 min

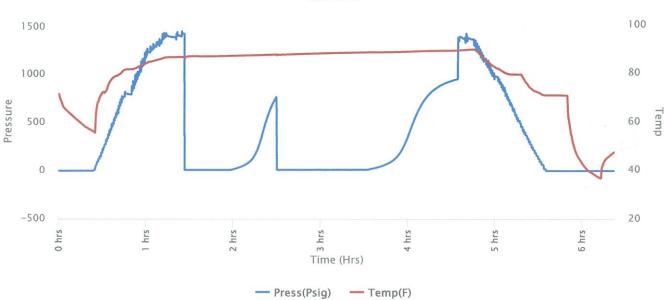
Max Reading: .9"

2nd Close Minutes: 60 Current Reading:

0" at 60 min

Max Reading: 0"

Inside Recorder





SEC: 31 TWN: 11S RNG: 12W

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 Est Field Name: Hegarty Pool: Wildcat Job Number: 266

Operation:

Uploading recovery &

DATE November

> 05 2018

DST #1

Formation: Lans B

Test Interval: 2964 -

Total Depth: 2990'

2990'

Time On: 22:07 11/05

Time Off: 04:19 11/06

Time On Bottom: 23:34 11/05 Time Off Bottom: 02:34 11/06

Recovered

Foot 10

BBLS 0.129

Initial Flow

Temperature

Description of Fluid SLOCSLGCM

Gas % 10

Oil % 10

Water % 0

Mud % 80

Total Recovered: 10 ft

Initial Hydrostatic Pressure

Initial Closed in Pressure

Final Hydrostatic Pressure

Total Barrels Recovered: 0.129

_	
1401	PSI
9 to 11	PSI
771	PSI
11 to 14	PSI
959	PSI
1399	PSI
90	°F

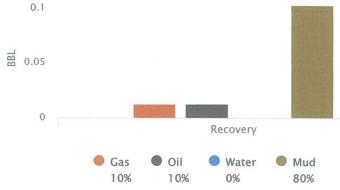
0.0

Pressure Change Initial Close / Final Close

Final Flow Pressure **Final Closed in Pressure** Reversed Out NO

%

Recovery at a glance





Lease: Ulrich A-1

SEC: 31 TWN: 11S RNG: 12W

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 Est Field Name: Hegarty Pool: Wildcat Job Number: 266

Operation:

Uploading recovery & pressures

DATE November

05 2018

DST #1 Formation: Lans B

Test Interval: 2964 -

Total Depth: 2990'

2990'

Time On: 22:07 11/05

Time Off: 04:19 11/06

Time On Bottom: 23:34 11/05 Time Off Bottom: 02:34 11/06

BUCKET MEASUREMENT:

1st Open: 1/4 Blow. Built to 1 1/4 inches in 30 mins

1st Close: NOBB

2nd Open: 1/4 Blow. Built to 3/4 inch in 60 mins

2nd Close: NOBB

REMARKS:

Tool Sample: 2% Gas 18% Oil 0% Water 80% Mud



SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 Est Field Name: Hegarty Pool: Wildcat Job Number: 266

Operation: Uploading recovery &

pressures

DATE

November 05

2018

DST #1

Formation: Lans B

Test Interval: 2964 -

Total Depth: 2990'

2990'

Time On: 22:07 11/05

Time Off: 04:19 11/06

Time On Bottom: 23:34 11/05 Time Off Bottom: 02:34 11/06

Down Hole Makeup

Heads Up:

22.28 FT

Packer 1:

2959 FT

Drill Pipe:

2953.71 FT

Packer 2:

2964 FT

ID-3 1/2

Top Recorder:

2948.42 FT

Weight Pipe:

FT

Bottom Recorder:

2966 FT

ID-2 7/8

0 FT

Well Bore Size:

7 7/8

5/8"

Collars: ID-2 1/4

1" Surface Choke:

Test Tool:

33.57 FT

Bottom Choke:

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor:

Anchor Makeup

Packer Sub:

1 FT

Perforations: (top):

0 FT

4 1/2-FH

Change Over:

0 FT

Drill Pipe: (in anchor):

0 FT

ID-3 1/2

Change Over:

0 FT

Perforations: (below):

25 FT

4 1/2-FH



Operation:

Uploading recovery &

pressures

Company: John O. Farmer, Inc

Lease: Ulrich A-1

SEC: 31 TWN: 11S RNG: 12W

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 Est Field Name: Hegarty Pool: Wildcat Job Number: 266

DATE November

05 2018

DST #1 Formation: Lans B

Test Interval: 2964 -

Total Depth: 2990'

2990'

Time On: 22:07 11/05

Time Off: 04:19 11/06

Time On Bottom: 23:34 11/05 Time Off Bottom: 02:34 11/06

Mud Properties

Mud Type: Chem

Weight: 8.6

Viscosity: 65

Filtrate: 8

Chlorides: 3000 ppm



Operation:

Uploading recovery &

pressures

Company: John O. Farmer, Inc

Lease: Ulrich A-1

SEC: 31 TWN: 11S RNG: 12W

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 Est Field Name: Hegarty Pool: Wildcat Job Number: 266

DATE November 05

2018

DST #1

Formation: Lans B

Test Interval: 2964 -

Total Depth: 2990'

2990'

Time On: 22:07 11/05

Time Off: 04:19 11/06

Time On Bottom: 23:34 11/05 Time Off Bottom: 02:34 11/06

Gas Volume Report

1st Open

2nd Open

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



Lease: Ulrich "A" #1

State: Kansas Drilling Contractor: Royal Drilling, Inc -

SEC: 31 TWN: 11S RNG: 12W

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

County: RUSSELL

Operation:

Uploading recovery & pressures

> **DATE** November

> > 06 2018

DST #2 Formation: Lans C Test Interval: 2994 -Total Depth: 3012'

3012'

Time On: 11:00 11/06 Time Off: 16:54 11/06

Time On Bottom: 12:14 11/06 Time Off Bottom: 15:14 11/06

Electronic Volume Estimate:

198'

1st Open Minutes: 30 **Current Reading:**

9.6" at 30 min

Max Reading: 9.6"

1st Close Minutes: 30 **Current Reading:**

.1" at 30 min Max Reading: .1"

2nd Open Minutes: 60 **Current Reading:**

16.1" at 60 min

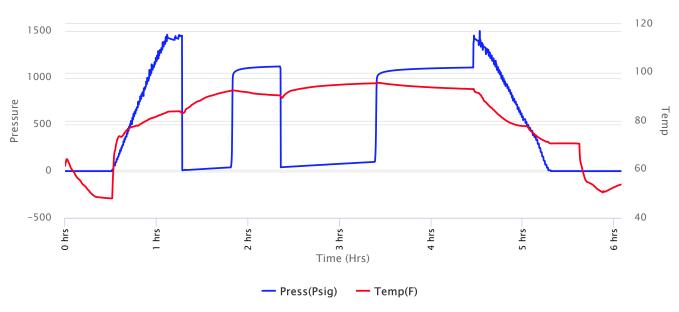
Max Reading: 16.1"

2nd Close Minutes: 60 **Current Reading:**

0" at 60 min

Max Reading: 0"

Inside Recorder





Lease: Ulrich "A" #1

SEC: 31 TWN: 11S RNG: 12W

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Mud % 0 0 10

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation:

Uploading recovery & pressures

> **DATE** November 06 2018

Total Depth: 3012' DST #2 Formation: Lans C Test Interval: 2994 -

3012'

Time On: 11:00 11/06 Time Off: 16:54 11/06

Time On Bottom: 12:14 11/06 Time Off Bottom: 15:14 11/06

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %
3	0.0387	G	100	0	0
1	0.0129	0	0	100	0
185	2.3865	SLGCSLMCW	10	0	80

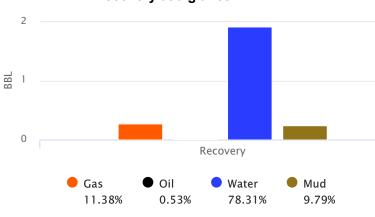
Total Recovered: 189 ft

Total Barrels Recovered: 2.4381

Reversed Out
NO

Initial Hydrostatic Pressure	1405	PSI
Initial Flow	9 to 41	PSI
Initial Closed in Pressure	1121	PSI
Final Flow Pressure	42 to 99	PSI
Final Closed in Pressure	1109	PSI
Final Hydrostatic Pressure	1405	PSI
Temperature	96	°F
Pressure Change Initial	1.1	%
Close / Final Close		

Recovery at a glance





SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation:

Uploading recovery & pressures

<u>DATE</u>

November **06**

2018

DST #2 Formation: Lans C Test I

Test Interval: 2994 -

Total Depth: 3012'

3012'

Time On: 11:00 11/06 Time Off: 16:54 11/06

Time On Bottom: 12:14 11/06 Time Off Bottom: 15:14 11/06

BUCKET MEASUREMENT:

1st Open: 1/4 " Blow Blow. Built to 9 3/4 inch in 30 min

1st Close: Weak Blow Back

2nd Open: 1/4" Blow. BOB in 14 1/4 mins

2nd Close: NOBB

REMARKS:

Tool Sample: 10% Gas 5% Oil 75% Water 10% Mud

Ph: 7

Measured RW: .24 @ 48 degrees °F

RW at Formation Temp: 0.128 @ 96 °F

Chlorides: 90,000 ppm



SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

County: RUSSELI State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT

Job Number: 266

Operation:

Uploading recovery & pressures

DATE

November

06

2018

DST #2

Formation: Lans C

Test Interval: 2994 -

Total Depth: 3012'

3012'

Time On: 11:00 11/06

Time Off: 16:54 11/06

Time On Bottom: 12:14 11/06 Time Off Bottom: 15:14 11/06

Down Hole Makeup

Heads Up: 16.09 FT **Packer 1:** 2989 FT

Drill Pipe: 2984.93 FT **Packer 2:** 2994 FT

ID-3 1/2 Top Recorder: 2981 FT

Weight Pipe: FT Bottom Recorder: 2996 FT

ID-2 7/8

Collars: 0 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 26.16 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Total Anchor: 18

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 17 FT

4 1/2-FH



Lease: Ulrich "A" #1

SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation:

Uploading recovery & pressures

DATE

November **06**

2018

DST #2

Formation: Lans C

Test Interval: 2994 -

Total Depth: 3012'

3012'

Time On: 11:00 11/06 Time Off: 16:54 11/06

Time On Bottom: 12:14 11/06 Time Off Bottom: 15:14 11/06

Mud Properties

Mud Type: Chem Weight: 8.6 Viscosity: 58 Filtrate: 8.8 Chlorides: 4000 ppm



Lease: Ulrich "A" #1

SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation: Uploading recovery & pressures

> **DATE** November

> > 06 2018

DST #2 Formation: Lans C Total Depth: 3012' Test Interval: 2994 -3012'

Time On: 11:00 11/06 Time Off: 16:54 11/06

Time On Bottom: 12:14 11/06 Time Off Bottom: 15:14 11/06

Gas Volume Report

1st Open 2nd Open

Ti	me	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D



SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation:

Uploading recovery & pressures

> **DATE** November

> > 07 2018

DST #3 Formation: Lans G Test Interval: 3039 -Total Depth: 3063' 3063'

Time On: 00:47 11/07 Time Off: 06:54 11/07

Time On Bottom: 02:05 11/07 Time Off Bottom: 05:05 11/07

Electronic Volume Estimate:

54'

1st Open Minutes: 30 **Current Reading:**

3" at 30 min

Max Reading: 3"

1st Close Minutes: 30 **Current Reading:**

0" at 30 min

Max Reading: 0"

2nd Open Minutes: 60

Current Reading:

3.9" at 60 min

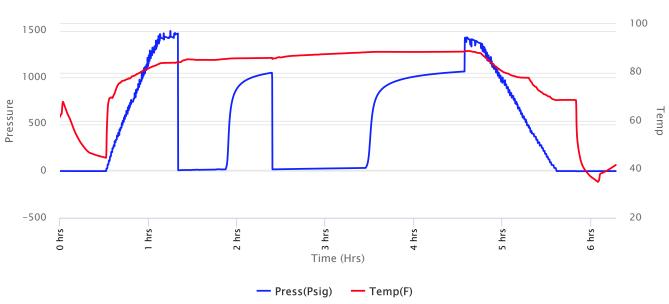
Max Reading: 3.9"

2nd Close Minutes: 60 **Current Reading:**

0" at 60 min

Max Reading: 0"

Inside Recorder





Lease: Ulrich "A" #1

SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation:

Uploading recovery & pressures

DATE

November

07 2018 DST #3 Formation: Lans G Test Interval: 3039 -

Total Depth: 3063'

3063'

Time On: 00:47 11/07 Time Off: 06:54 11/07

Time On Bottom: 02:05 11/07 Time Off Bottom: 05:05 11/07

Recovered

BBLS Foot 56 0.7224 **Description of Fluid** MCW

Gas % 0

Oil % 0

Water % 75

Mud % 25

Total Recovered: 56 ft

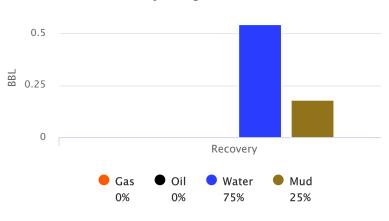
Total Barrels Recovered: 0.7224

Close / Final Close

Reversed Out NO

Initial Hydrostatic Pressure	1418	PSI
Initial Flow	10 to 21	PSI
Initial Closed in Pressure	1054	PSI
Final Flow Pressure	20 to 34	PSI
Final Closed in Pressure	1067	PSI
Final Hydrostatic Pressure	1419	PSI
Temperature	89	°F
Pressure Change Initial	0.0	%

Recovery at a glance





County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

SEC: 31 TWN: 11S RNG: 12W

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation:

Uploading recovery & pressures

DATE

November

07 2018

DST #3 Formation: Lans G Test Interval: 3039 - Total Depth: 3063'

3063'

Time On: 00:47 11/07 Time Off: 06:54 11/07

Time On Bottom: 02:05 11/07 Time Off Bottom: 05:05 11/07

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Built to 3 inches in 30 mins

1st Close: NOBB

2nd Open: WSB. Built to 3 3/4 inches in 60 mins

2nd Close: NOBB

REMARKS:

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

Ph: 7

Measured RW: .26 @ 40 degrees °F

RW at Formation Temp: 0.127 @ 89 °F

Chlorides: 65000 ppm



SEC: 31 TWN: 11S RNG: 12W

County: RUSSELL State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT

Job Number: 266

Operation:

Uploading recovery & pressures

DATE

November

07

2018

Formation: Lans G

Test Interval: 3039 -

Total Depth: 3063'

3063'

Time On: 00:47 11/07

DST #3

Time Off: 06:54 11/07

Time On Bottom: 02:05 11/07 Time Off Bottom: 05:05 11/07

Down Hole Makeup

Heads Up: 3.3300000000002 FT Packer 1: 3034 FT

Drill Pipe: 3017.17 FT Packer 2: 3039 FT

ID-3 1/2

Top Recorder: 3026 FT

Weight Pipe: FT

ID-2 7/8

Bottom Recorder: 3041 FT

Collars: 0 FT Well Bore Size: 7 7/8

ID-2 1/4

Surface Choke: 1"

Test Tool: 26.16 FT **Bottom Choke:** 5/8"

ID-3 1/2-FH

Total Anchor: 24

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 0 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 23 FT

4 1/2-FH



Lease: Ulrich "A" #1

SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

pressures

Operation:

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DATE November

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DST #3 Formation: Lans G Test Interval: 3039 -

Total Depth: 3063'

3063'

Time On: 00:47 11/07 Time Off: 06:54 11/07

Time On Bottom: 02:05 11/07 Time Off Bottom: 05:05 11/07

Mud Properties

Chlorides: 4000 ppm Mud Type: Chem Weight: 8.6 Viscosity: 58 Filtrate: 8.8



SEC: 31 TWN: 11S RNG: 12W County: RUSSELL

State: Kansas

Drilling Contractor: Royal Drilling, Inc -

Rig 2

Elevation: 1706 EGL Field Name: Hegarty Pool: WILDCAT Job Number: 266

Operation: Uploading recovery &

pressures

DATE November

> 07 2018

DST #3 Formation: Lans G Test Interval: 3039 -

Total Depth: 3063'

3063'

Time On: 00:47 11/07 Time Off: 06:54 11/07

Time On Bottom: 02:05 11/07 Time Off Bottom: 05:05 11/07

Gas Volume Report

1st Open 2nd Open

Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D
				I			