KOLAR Document ID: 1471532

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:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
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: sx cmt.
Original Comp. Date: Original Total Depth:	
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if fladica offsite.
GSW Permit #:	Operator Name:
_	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. R East West
Recompletion Date Recompletion 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 Approved by: Date:								

KOLAR Document ID: 1471532

#### Page Two

Operator Name:					Lease Nam	ne:			Well #:		
SecTw	pS.	R	East	t West	County:						
open and closed, and flow rates if $\mathfrak q$	, flowing and gas to surface ty Log, Final	shut-in pressi e test, along v Logs run to ol	ures, who vith final btain Geo	ether shut-in pre chart(s). Attach ophysical Data a	ssure reached extra sheet if r and Final Electr	static nore s	level, hydrostat space is needed	ic pressures, bo I.	ottom hole tempe	val tested, time tool erature, fluid recovery, v. Digital electronic log	
Drill Stem Tests T			Y	⁄es		Lo	g Formatio	n (Top), Depth a	and Datum	Sample	
Samples Sent to Geological Survey					1	Name			Тор	Datum	
Cores Taken Electric Log Run Geologist Report List All E. Logs R	t / Mud Logs	ŕ	Y	′es □ No ′es □ No ′es □ No							
			Rep	CASING ort all strings set-c	RECORD  conductor, surface	New		on. etc.			
Purpose of Str	ring	Size Hole Drilled	Si	ze Casing et (In O.D.)	Weight Lbs. / Ft.	0,	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
	ADDITIONAL CEMENTING / SQUEEZE RECORD										
Purpose: Perforate	Т	Depth op Bottom	Тур	e of Cement	# Sacks Use	# Sacks Used Type and Percent Additives					
Protect Ca											
Plug Off Zo											
Did you perform     Does the volume     Was the hydrauli	e of the total ba	se fluid of the h	nydraulic fr	acturing treatment		•	Yes S? Yes	No (If No, s	kip questions 2 an kip question 3) Il out Page Three	,	
Date of first Produc Injection:	ction/Injection	or Resumed Pro	oduction/	Producing Meth  Flowing	nod:  Pumping		Gas Lift O	ther (Explain)			
Estimated Produc Per 24 Hours		Oil E	3bls.	Gas	Mcf	Water Bbls. Gas-Oil Ratio Gra				Gravity	
DISPO	OSITION OF G	AS: sed on Lease		M Open Hole	METHOD OF COI	MPLET		nmingled	PRODUCTIO Top	DN INTERVAL: Bottom	
	ed, Submit ACO-			Сроптою	_	Submit A		mit ACO-4)			
Shots Per	Perforation	Perfora	ition	Bridge Plug	Bridge Plug		Acid,	Fracture, Shot, Ce	ementing Squeeze	Record	
Foot	Тор	Botto	m	Type	Set At			(Amount and Kir	nd of Material Used)		
TUBING RECORE	D: Siz	э:	Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	OGLE 4
Doc ID	1471532

# All Electric Logs Run

Dual Induction Log
Micro Log
Sonic Log
Compensated Density/Neutron Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	OGLE 4
Doc ID	1471532

## Tops

Name	Тор	Datum
Anhydrite	810	+1116
B. Anhydrite	838	+1088
Heebner	3047	-1121
Toronto	3063	-1137
Douglas	3076	-1150
Brown Lime	3136	-1298
Lansing	3151	-1225
ВКС	3388	-1290
Arbuckle	3396	-1470

Form	ACO1 - Well Completion
Operator	K & N Petroleum, Inc.
Well Name	OGLE 4
Doc ID	1471532

# 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	395	60/40 Poz	325	2% gel, 3% CC
Production	7.875	5.5	14	3448	60/40 Poz	200	2% gel, .75% C- 37, .75% C-12, .25% C- 12, 10% Salt



### TREATMENT REPORT

Acid Stage No.

Date 8	8/8/20 <b>19</b> p	istrict GB	F.O. N	o. C47070	Type Treatment:		Type Fluid	Sand Size	Pound	ds of Sand
	K & N PETROL			0.7070	Didd Wil					
,	& No. OGLE #4				\ <u></u>		·			
Location	Comment of the commen		Field		X <del>3</del>	Bbl./Gal.				
County	BARTON		State KS		Flush					
					Treated from		ft. to		No. ft.	0
Casing:	Size 8 5/8	Type & Wt.		Set atft.				1	No. ft.	
Formation:				to	from		ft. to		_	0
Formation					Actual Volume of Oi					Bbl./Gal.
Formation			Perf.	to						
Liner: Si	žeType &	Wt.	Top atft.	Bottom atft.	Pump Trucks. N	lo. Used: Std.	320 Sp.		Twin	
					Auxiliary Equipment		36			
			Swung at		Personnel GREG I					_
	Perforated fr	om	ft. to	ft.	Auxiliary Tools					
		4			Plugging or Sealing I	Materials: Type				
Open Hole	Size	T.D	ft. P.	B. toft.				Gals	•	lb.
Company I	Representative		ED N.		Treater		GREG	C.		
TIME	PRESS									***************************************
a.m./p.m.	Tubing	Casing	Total Fluid Pumped			REMARKS	•			
10:30				ON LOCATION						
				RUN 397' OF 8 5	/8 SURFACE	PIPE				
				PUMP 325 SKS 6	0/40 2% GEI	L 3% C.C.				
-										
				DISPLACE WITH :	24.25 BBI S (	OF H20				
				0101 2 (02 (1111)						
				CEMENT CIRCUL	ATED TO SIL	RFACE				
				CLIVILIAI CINCOL	AILD TO 30	MI ACL.				
				JOB COMPLETE						
12:45				JOB CONIPLETE						
				THANK VOLUM						
				THANK YOU!!!						
				0050 0110510						
				GREG CURTIS						
			the second secon							



### TREATMENT REPORT

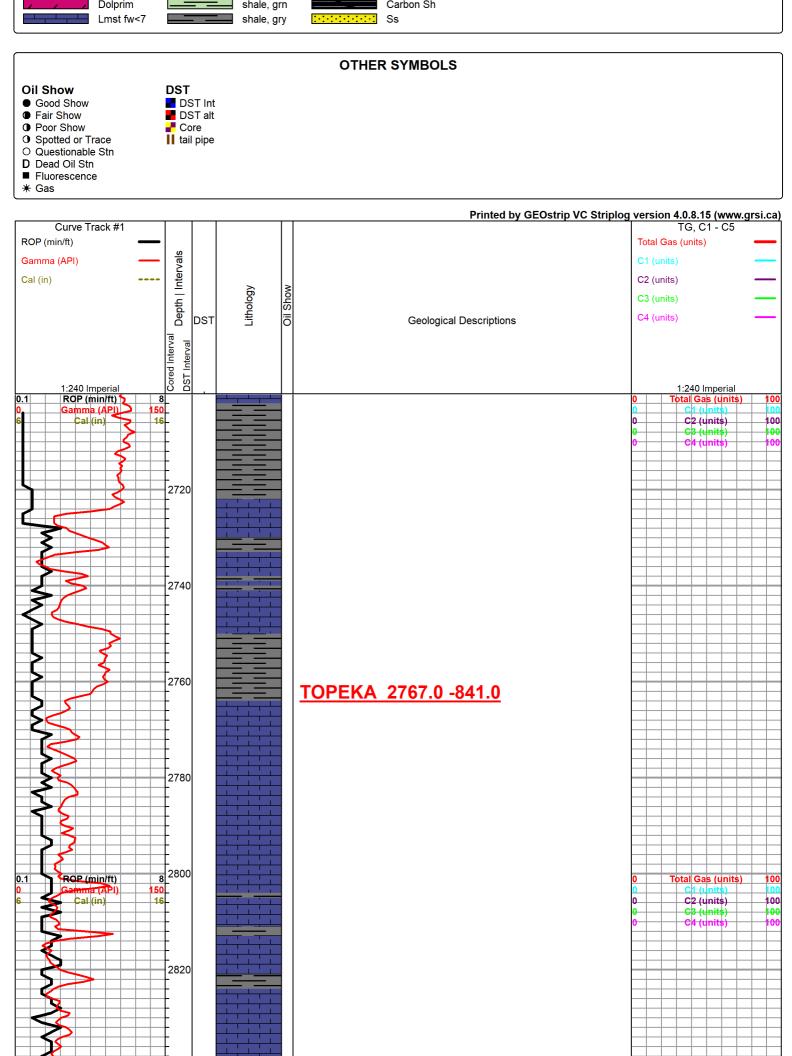
Acid &	Cemer	it 🕮						Acid Stage No		
					Type Treatment:	Amt.	Type Fluid	Sand Size	Pounds	of Sand
Date 8/	13/2019	District GB	F,O. P	lo. 47127	Bkdown		( Nor ) rese			
A CONTRACTOR OF THE PARTY OF TH	&N Petrole	A second								
-	& No. Ogle#					Bbl./Gal.				
Location			Field			8bl./Gal.				
County B			State KS		Flush					
					Treated from	ft.			No. ft.	0
Casing				Set atft.		ft.	to	ft.	No. ft.	0
Formation:	-		Perf.	to	from	ft,	to	ft.	No. ft.	0
Formation:			Perl.	to	Actual Volume of	Oil / Water to Load Hole:				861./Gal.
Formation:			Perf.	to						
Liner: Size				Bottom at fi.	Pump Trucks.	No, Used: Std. 3	65 Sp.		Twin	
Ce	emented: Yes	▼ Perforated f	rom	The state of the s	Auxiliary Equipme		36	7/310		
Tubing: S	ize & Wt.			ft.	Personnel Nath	an-Greg-Clarence				
	Perforated	from	ft. to	ft.	Auxiliary Tools					
					Plugging or Sealin	g Materials: Type				
Open Hole S	lie	T.D.	ft. P	.B. toft.				Gals.		lb.
5.										
Delication of the last	epresentative		ED		Treeter		Nathan	w.		
TIME		ESSURES	Total Fluid Pumped			REMARKS				
a.m./p.m.	Tubing	Casing 5.5"		On Lorentine Die	1-2-2					
8:45		5.5		On Location. Rig	g laying dov	vn pipe.				
				TD-3455'		antimilinana 4 2 i	- 70			
7						entralizers-1,3,	5,7,9			1)
(b./H)			-	Pipe-3448'	88	askets-2,6				
				Baffle-3434'						
11:30				Start pipe in hole		24401				
				Tag bottom and	set pipe at	3448'				
				Book and the	111					
1:30		-		Break circulation	with mud	pump. Circulat	e for 1 no	our.		
	-									
2:30		-	-	Pump 600gal of	Mud Flush.					
		<del></del>		DI - D	4 00 1					
2:35				Plug Rat Hole wi	th 30sks					-
- 14				A 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12						
2:40				Mix 200sks 60/4	Opoz 2%gel	.75%C-37 .75	%C-12 .2	5%C-12 1	.0% Sal	t
# 61				5#/sk Gilsonite.						
F. 17										
				Wash out pump	and lines.					
				Displace with 83	.8bbls at 8b	pm-900#				
		<b> </b>		27-1						
3:10				Plug landed at 1:	200# Press	ured up to 150	0# Releas	ed pressu	ire.	
				Float Held.						
										1.1-
				Thank You!						
N.										
8.1		ļ		Nathan W.						
A second										

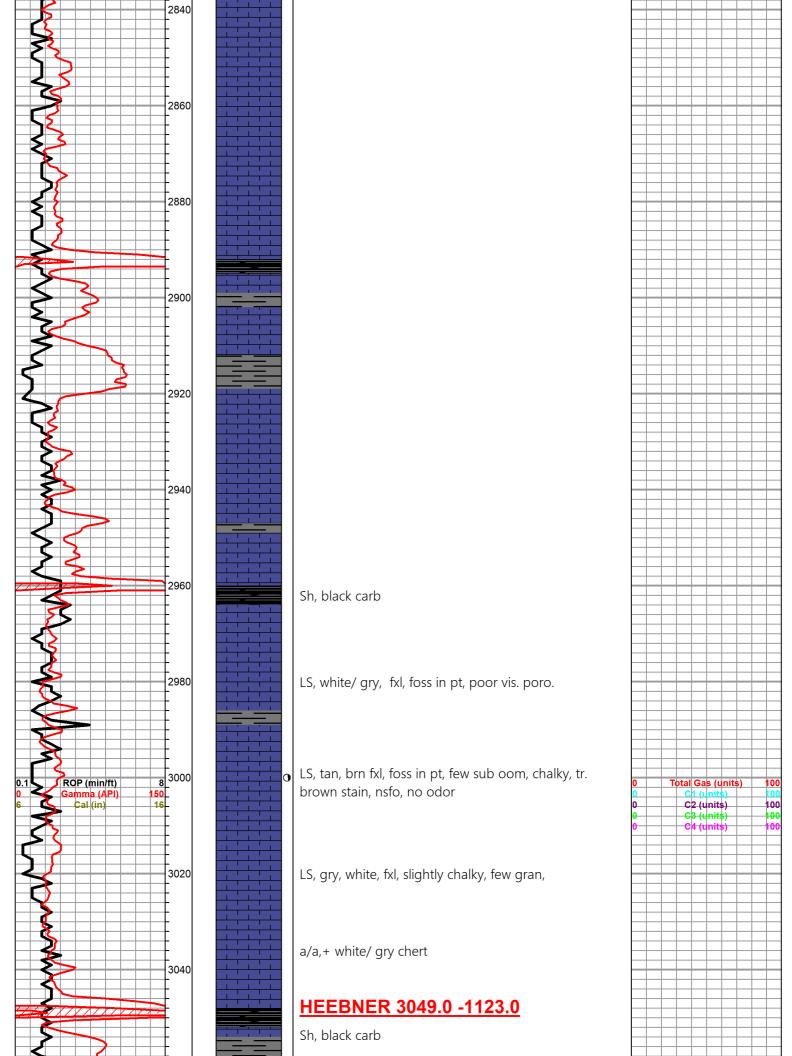


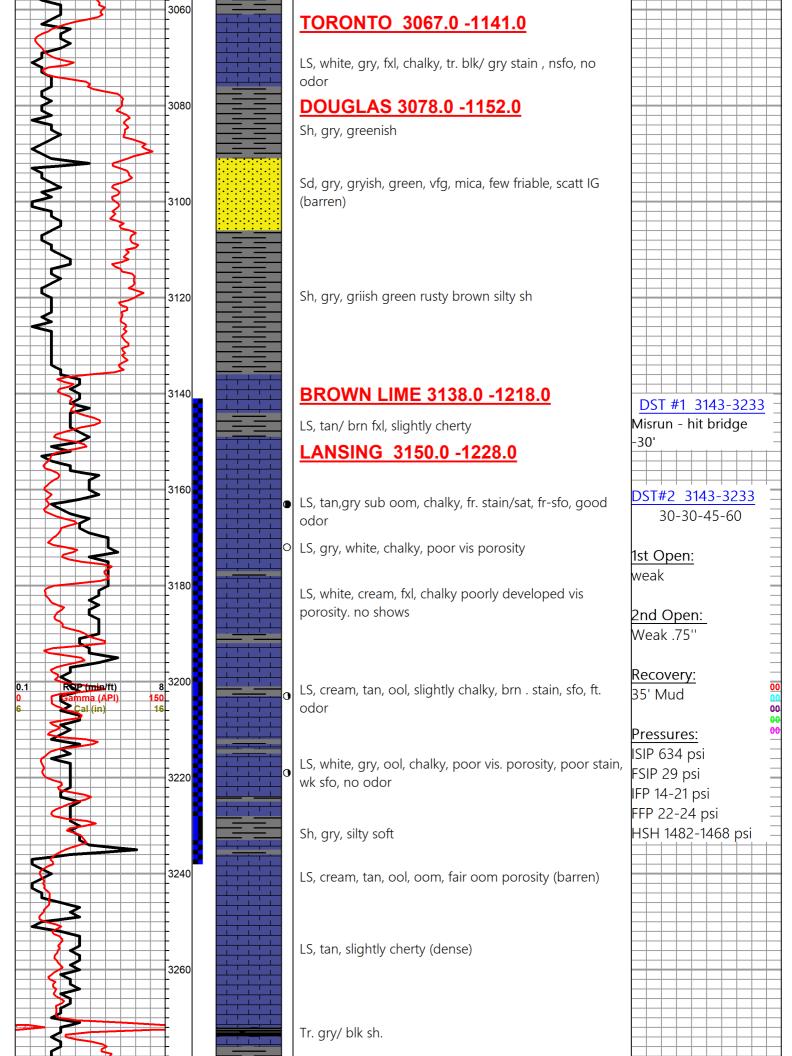
# GEOLOGIST'S REPORT

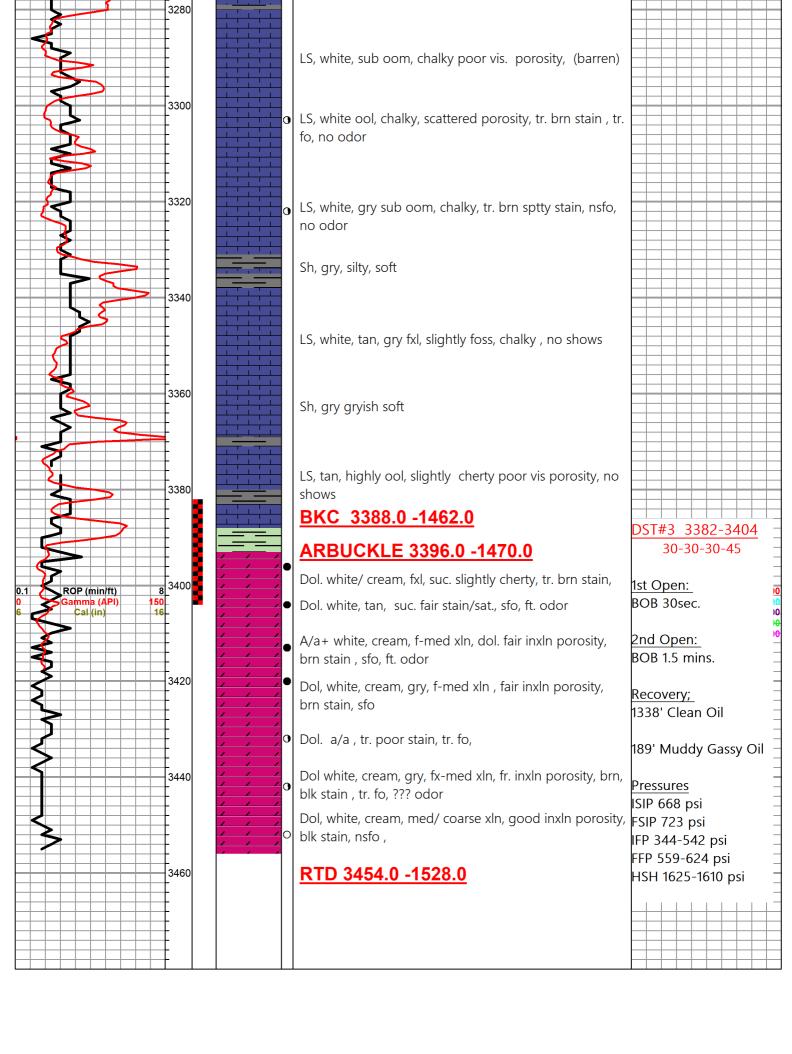
DRILLING TIME AND SAMPLE LOG

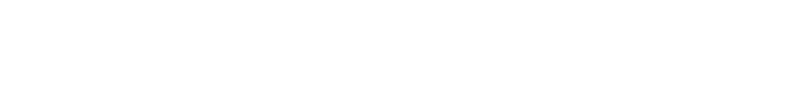
COMPANY K&N Pet	roleum Ir	nc		Τ	ELEVATIONS			
COMPANT		ELEVATIONS						
LEASE Ogle # 4	KB	KB_1926'						
FIELD <u>Finger</u>								
LOCATIONSW-S	F-NF-NF		1190'FNL & 430' FFI	DF -				
				GL_	1916'			
SEC12TWS	P17S_	RGE	13W	Mea	surements Ar	e All		
COUNTY_Barton	STAT	E <u>Ka</u>	nsas	From	m_KB			
CONTRACTOR South	vind Drilli	ng co.	(Rig #8)		CASING			
SPUD 08/07/2019	COMP O	18/13/2	010		ace <u>8 5/8"@38</u> jction <u>5 1/2"@3</u> 4			
RTD 3455'	LTD _	3454'			CTRICAL SUR	VE15		
MUD UP 2606'	TYPE	MUD_C	hemical	ĺ	DUCP, MEL, DIL , CDL	_/CNL		
SAMPLES SAVED FRO	SAMPLES SAVED FROM TORTD							
DRILLING TIME KER								
SAMPLES EXAMINED	FROM		900	_ TO _	RTD			
GEOLOGICAL SUPERV	ISION F	ROM _29	900'	_ TO _	RTD			
GEOLOGIST ON WELL		Jim I	Musgrove					
FORMATION TOPS	LO	G.	SAMPLES					
Anhydrite	810	+1116						
B. Anhydrite	+	+1088						
Heebner	3047	-1121				×		
Toronto	3063 3076	-1137 -1150						
Douglas Brown Lime	3136	-1298			12			
Lansing	3151	-1225						
BKC	3388	-1290						
Arbuckle	3396	-1470			3			
RTD	3455	-1529	*	—. ∟				













Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

2nd Close

N/A

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield

Job Number: 377

API #: 15-009-26265-00-00

Operation: Well Complete

> **DATE** August

> > 11 2019

**DST #1** 

Formation: L/KC "A-

Test Interval: 3142 -

Total Depth: 3198'

3198'

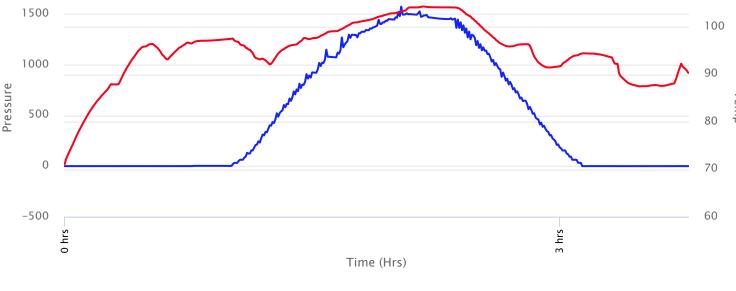
Time On: 11:23 08/11

Time Off: 15:05 08/11

N/A

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01





Temp(F)

Press(Psig)



Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger

Pool: Infield Job Number: 377

API#: 15-009-26265-00-00

**DATE** August

11

2019

**DST #1** Formation: L/KC "A-Test Interval: 3142 -Total Depth: 3198' 3198'

Time On: 11:23 08/11 Time Off: 15:05 08/11

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

Recovered

**Description of Fluid** Foot **BBLS** Gas % Oil % Water % Mud %

Total Recovered: 0 ft Total Barrels Recovered: 0

Close / Final Close

Reversed Out NO

Initial Hydrostatic Pressure 0 **PSI** PSI **Initial Flow** 0 **Initial Closed in Pressure PSI** 0 Final Flow Pressure 0 PSI **Final Closed in Pressure PSI** 0 Final Hydrostatic Pressure PSI 0 °F Temperature 0 Pressure Change Initial 0.0 %



Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger

Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

Operation:

Well Complete

**DATE** 

August

11

2019

**DST #1** 

Formation: L/KC "A-

Test Interval: 3142 -

Total Depth: 3198'

3198'

Time On: 11:23 08/11 Time Off: 15:05 08/11

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

### **BUCKET MEASUREMENT:**

1st Open: MISRUN!

1st Close: N/A 2nd Open: N/A 2nd Close: N/A

### **REMARKS:**

Hit bridge 30 ft. off bottom. No way to put head joint on.



Company: K & N Petroleum, Inc Sec. 12 TWN: 17

Lease: Ogle #4

SEC: 12 TWN: 17S RNG: 13W

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield

Job Number: 377

API #: 15-009-26265-00-00

**Operation:** Well Complete

**DATE** 

August

11

2019

**DST #1** 

Formation: L/KC "A-

Test Interval: 3142 -

Total Depth: 3198'

3198'

Time On: 11:23 08/11

Time Off: 15:05 08/11

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

## **Down Hole Makeup**

**Heads Up:** Packer 1: 31.91 FT 3137 FT

**Drill Pipe:** 3148.75 FT Packer 2: 3142 FT

ID-3 1/2

Top Recorder: 3129 FT

Weight Pipe: FT **Bottom Recorder:** 3179 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: FT

**Surface Choke:** 1" ID-2 1/4

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

ID-3 1/2-FH

**Total Anchor:** 56

**Anchor Makeup** 

Packer Sub: 1 FT

Perforations: (top): 2 FT

4 1/2-FH

**Change Over:** .5 FT

Drill Pipe: (in anchor): 32 FT

ID-3 1/2

**Change Over:** .5 FT

Perforations: (below): 20 FT

4 1/2-FH



Operation:

Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield

Job Number: 377

API #: 15-009-26265-00-00

DATE

August

11

2019

**DST #1** Formation: L/KC "A- Test Interval: 3142 -

Total Depth: 3198'

3198'

Time On: 11:23 08/11

Time Off: 15:05 08/11

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

## **Mud Properties**

Mud Type: Chemical Viscosity: 59 Weight: 8.6 Filtrate: 8.8 Chlorides: 2,000 ppm



Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield

Job Number: 377 API #: 15-009-26265-00-00

Operation: Well Complete

**DATE** 

August

11

2019

**DST #1** 

Formation: L/KC "A-

Test Interval: 3142 -3198'

Total Depth: 3198'

Time On: 11:23 08/11

Time Off: 15:05 08/11

Time On Bottom: 00:00 01/01 Time Off Bottom: 00:00 01/01

**Gas Volume Report** 

1st Open 2nd Open

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



Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

Operation: Well Complete

> **DATE** August 11 2019

**DST #2** Formation: L/KC "A-

Test Interval: 3143 -3233'

Total Depth: 3233'

Time On: 22:16 08/11 Time Off: 04:53 08/12

Time On Bottom: 00:16 08/12 Time Off Bottom: 03:01 08/12

Electronic Volume Estimate:

25'

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

2.3" at 30 min

Max Reading: 2.3"

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

0" at 30 min

Max Reading: 0"

2nd Open Minutes: 45 **Current Reading:** 

.1" at 45 min

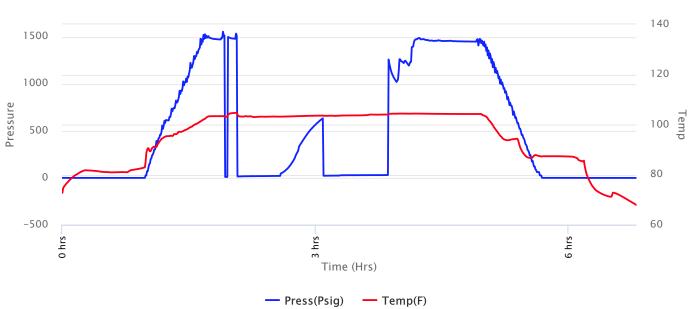
Max Reading: .7"

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

0" at 60 min

Max Reading: 0"

Inside Recorder





Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

0

Operation: Well Complete

> **DATE** August

> > 11

2019

**DST #2** Formation: L/KC "A-

Test Interval: 3143 -

Total Depth: 3233'

3233'

Time Off: 04:53 08/12 Time On: 22:16 08/11

Time On Bottom: 00:16 08/12 Time Off Bottom: 03:01 08/12

Gas %

0

Recovered

**BBLS Foot** 35 0.49805 **Description of Fluid** Μ

Oil %

0

Mud % Water %

100

Total Recovered: 35 ft

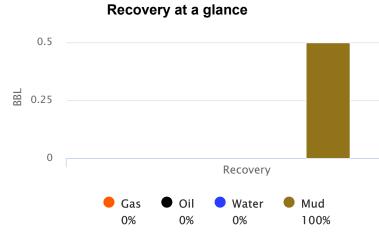
Total Barrels Recovered: 0.49805

Reversed Out NO

Initial Hydrostatic Pressure	1482	PSI
Initial Flow	14 to 21	PSI
Initial Closed in Pressure	634	PSI
Final Flow Pressure	22 to 24	PSI
Final Closed in Pressure	29	PSI
Final Hydrostatic Pressure	1468	PSI
Temperature	104	°F
Pressure Change Initial	95.4	%

Close / Final Close





GIP cubic foot volume: 0



Well Complete

# Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

**DST #2** 

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

**DATE** 

August 11

2019

Formation: L/KC "A-

Test Interval: 3143 -

Total Depth: 3233'

3233'

Time Off: 04:53 08/12 Time On: 22:16 08/11

Time On Bottom: 00:16 08/12 Time Off Bottom: 03:01 08/12

### **BUCKET MEASUREMENT:**

1st Open: 1 in. blow building to 2 1/4 ins.

1st Close: No blow back.

2nd Open: Blow building to 3/4 in.

2nd Close: No blow back.

#### **REMARKS:**

Tool slid 10 ft. to bottom. Flushed tool 10 mins. into 2nd open.

Had 35 ft. of recovery but the driller popped off the pipe before anyone was ready so was unable to get a sample.

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



Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

**DATE** August 11

2019

DST #2 Formation: L/KC "A-Test Interval: 3143 -Total Depth: 3233'

3233'

Time On: 22:16 08/11 Time Off: 04:53 08/12

Time On Bottom: 00:16 08/12 Time Off Bottom: 03:01 08/12

### **Down Hole Makeup**

**Heads Up:** 30.7 FT Packer 1: 3138 FT

**Drill Pipe:** 3148.54 FT Packer 2: 3143 FT

ID-3 1/2

Top Recorder: 3130 FT Weight Pipe: FT

**Bottom Recorder:** 3212 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: FT

**Surface Choke:** 1" ID-2 1/4

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

ID-3 1/2-FH

**Total Anchor:** 90

**Anchor Makeup** 

Packer Sub: 1 FT

Perforations: (top): 2 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 64 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 22 FT

4 1/2-FH



Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger

Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

**DATE** August 11

2019

**DST #2** Formation: L/KC "A- Test Interval: 3143 -3233'

Total Depth: 3233'

Time On: 22:16 08/11

Time Off: 04:53 08/12

Time On Bottom: 00:16 08/12 Time Off Bottom: 03:01 08/12

## **Mud Properties**

Mud Type: Chemical Weight: 9.25 Viscosity: 60 Filtrate: 8.4 Chlorides: 4,500 ppm



Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

**DST #2** 

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

**DATE** August

11 2019 Formation: L/KC "A-

Test Interval: 3143 -

Total Depth: 3233'

3233'

Time On: 22:16 08/11 Time Off: 04:53 08/12

Time On Bottom: 00:16 08/12 Time Off Bottom: 03:01 08/12

## **Gas Volume Report**

2nd Open 1st Open

Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/D	1
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Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

Operation: Well Complete

> **DATE** August 12 2019

**DST #3** Formation: Arbuckle Total Depth: 3404' Test Interval: 3382 -

3404'

Time On: 21:10 08/12 Time Off: 04:05 08/13

Time On Bottom: 23:09 08/12 Time Off Bottom: 01:24 08/13

Electronic Volume Estimate: 2118'

1st Open Minutes: 30 **Current Reading:** 218.7" at 30 min Max Reading: 220"

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

Minutes: 30 **Current Reading:** 43.5" at 30 min

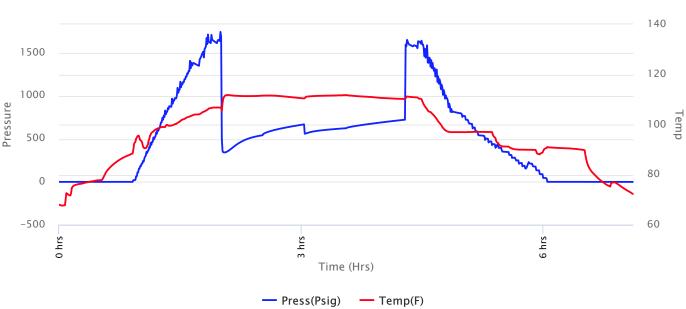
2nd Open

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

Max Reading: 43.5" Max Reading: 0"

Inside Recorder

Max Reading: 0"





Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

Operation: Well Complete

> **DATE** August 12 2019

**DST #3** Formation: Arbuckle Test Interval: 3382 -

Total Depth: 3404'

3404'

Time Off: 04:05 08/13 Time On: 21:10 08/12

Time On Bottom: 23:09 08/12 Time Off Bottom: 01:24 08/13

#### Recovered

<u>Foot</u>	<u>BBLS</u>	<b>Description of Fluid</b>	<u>Gas %</u>	<u>Oil %</u>	Water %	Mud %
1338	19.03974	0	0	100	0	0
126	1.79298	SLWCSLGCSLMCO	5	84	1	10
63	0 89649	SLWCSLGCMCO	5	73	2	20

Total Recovered: 1527 ft

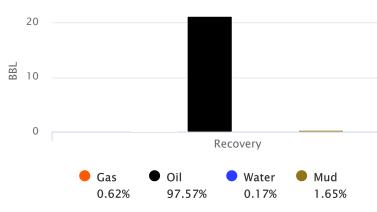
Total Barrels Recovered: 21.72921

Reversed Out	t
NO	

Initial Hydrostatic Pressure	1625	PSI
Initial Flow	344 to 542	PSI
Initial Closed in Pressure	668	PSI
Final Flow Pressure	559 to 624	PSI
Final Closed in Pressure	723	PSI
Final Hydrostatic Pressure	1610	PSI
Temperature	112	°F
Pressure Change Initial	0.0	%
Class / Final Class		

Close / Final Close

## Recovery at a glance



GIP cubic foot volume: 0.755



Well Complete

# Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

**DST #3** 

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

**DATE** 

August 12

2019

Formation: Arbuckle

Test Interval: 3382 -

Total Depth: 3404'

3404'

Time On: 21:10 08/12

Time Off: 04:05 08/13

Time On Bottom: 23:09 08/12 Time Off Bottom: 01:24 08/13

### **BUCKET MEASUREMENT:**

1st Open: Blow building. BOB in 30 secs.

1st Close: No blow back.

2nd Open: 1 in. blow building. BOB in 1 min. 30 secs.

2nd Close: No blow back.

#### REMARKS:

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

Gravity: 29.2 @ 60 °F



Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

DST #3

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

Total Depth: 3404'

**DATE** August

12 2019 Time On: 21:10 08/12 Time Off: 04:05 08/13

Formation: Arbuckle

Time On Bottom: 23:09 08/12 Time Off Bottom: 01:24 08/13

Test Interval: 3382 -

3404'

**Down Hole Makeup** 

**Heads Up:** 14.26 FT Packer 1: 3377 FT

**Drill Pipe:** 3371.1 FT Packer 2: 3382 FT

ID-3 1/2

Top Recorder: 3369 FT Weight Pipe: FT

**Bottom Recorder:** 3384 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: FT

**Surface Choke:** 1" ID-2 1/4

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

ID-3 1/2-FH

**Total Anchor:** 22

**Anchor Makeup** 

Packer Sub: 1 FT

Perforations: (top): FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 21 FT

4 1/2-FH



Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger

Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

**DATE** August

12

2019

**DST #3** Formation: Arbuckle Test Interval: 3382 -

Total Depth: 3404'

3404'

Time On: 21:10 08/12 Time Off: 04:05 08/13

Time On Bottom: 23:09 08/12 Time Off Bottom: 01:24 08/13

## **Mud Properties**

Mud Type: Chemical Weight: 9.1 Viscosity: 43 Filtrate: 10.8 Chlorides: 5,000 ppm



Well Complete

Company: K & N Petroleum, Inc SEC: 12 TWN: 17S RNG: 13W County: BARTON

Lease: Ogle #4

**DST #3** 

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 8

Elevation: 1916 GL Field Name: Finger Pool: Infield Job Number: 377

API #: 15-009-26265-00-00

**DATE** August

12 2019 Formation: Arbuckle Test Interval: 3382 -

Total Depth: 3404'

3404'

Time On: 21:10 08/12 Time Off: 04:05 08/13

Time On Bottom: 23:09 08/12 Time Off Bottom: 01:24 08/13

## **Gas Volume Report**

1st Open 2nd Open

Time Orifice PSI MCF/D Time Orifice PSI MCF/
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