KOLAR Document ID: 1662374

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:	SecTwpS. R
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:, (e.gxxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	Lease Name: Well #:
Designate Type of Completion:	Field Name:
☐ New Well ☐ Re-Entry ☐ Workover	Producing Formation:
Oil SWD	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? ☐ Yes ☐ No
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 Depth:	
□ Deepening       □ Re-perf.       □ Conv. to EOR       □ Conv. to SWD         □ Plug Back       □ Liner       □ Conv. to GSW       □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:  Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	·
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 III Approved by: Date:								

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#### Page Two

Operator Name:					Lease Nam	ne:			Well #:		
Sec Tw	rpS	S. R	Eas	st West	County:						
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,	
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.go	v. Digital electronic log	
Drill Stem Tests (Attach Addit		1		Yes No		Lo		n (Top), Depth a		Sample	
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum	
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No							
			Rej	CASING	RECORD [	Nev		on, etc.			
Purpose of St	tring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		'		
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	# Sacks Use	# Sacks Used Type and Percent Ad					
Protect Ca											
Plug Off Zo											
Did you perform     Does the volume     Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes S? Yes Yes	No (If No, s	kip questions 2 ar kip question 3) Il out Page Three		
Date of first Produ Injection:	ction/Injectio	n or Resumed Pi	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>			
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity	
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			ON INTERVAL:	
Vented (//		Used on Lease		Open Hole		Dually ( Submit A		nmingled	Тор	Bottom	
,	ed, Submit AC							·			
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)		
TUBING RECORI	D: S	size:	Set A	: -	Packer At:						

Form	ACO1 - Well Completion
Operator	Somerset Energy Enterprises, LLC
Well Name	KERN 18
Doc ID	1662374

## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	9.875	7	21	21	Portland	3	NA
Production	5.625	2.875	6.5	769	Econo	83	See Ticket

## **Short Cuts**

**TANK CAPACITY** 

BBLS. (42 gal.) equals D<sup>2</sup>x.14xh D equals diameter in feet. h equals height in feet.

BARRELS PER DAY

Multiply gals. per minute x 34.2

HP equals BPH x PSI x .0004 BPH - barrels per hour PSI - pounds square inch

## TO FIGURE PUMP DRIVES

- \* D Diameter of Pump Sheave
- \* d Diameter of Engine Sheave

SPM - Strokes per minute

**RPM** - Engine Speed

R - Gear Box Ratio

\*C - Shaft Center Distance

D - RPMxd over SPMxR

d - SPMxRxD over RPM

SPM - RPMXD over RxD

R - RPMXD over SPMxD

BELT LENGTH - 2C + 1.57(D + d) +  $\frac{(D-d)^2}{4C}$ 

\* Need these to figure belt length

TO FIGURE AMPS:

WATTS = AMPS

746 WATTS equal 1 HP

Log Book

Well No.	<u> </u>	<del></del>
Farm_Ke	<u></u>	
KS	M	iami
(State)		(County)
_18	16	24
(Section)	(Township)	(Range)
Some	rprises, U	34
For_ Ente	rprises, La	. <u>ث</u> .
	(Well Owner)	

# Town Oilfield Services, Inc.

1207 N. 1st East Louisburg, KS 66053 913-710-5400

Kern Farm: Miam County KS State; Well No. 18	Ļ	С	ASING A	ND TUBING	MEASI	UREMENTS	3
	1	Feet	ln.	Feet			<del></del>
Elevation 1066 Ft.	i	<u> </u>		<u> </u>	In.	Feet	In.
Commenced Spuding Tune 13 20 22	.4.	738.	4.1	Baffle	┼		<del> </del>
Finished Drilling June 14, 2022		770	Flo				┼
Driller's Name Ryan Ward			12	<u> </u>	├∦		<del> </del>
Driller's Name		780	70	-			<del> </del> -
Driller's Name					-		<u> </u>
Tool Dresser's Name Jay Sanders							
Tool Dresser's Name							
Tool Dresser's Name							
Contractor's Name TDR Construction							
18 16 24	,						
(Section) (Township) (Range)							
Distance from $\frac{S}{E}$ line, $\frac{2233}{2496}$ ft.	:						
Distance from E line, 2496 ft.	t						
3 sacks cement.							
5-5/8" Bone hole	٠.				-		
2-78" Casing	• -						<del></del>
11 hrs.	-			<del></del>			
CASING AND TUBING	-				-  -		
RECORD	-		_		_  _		
RECORD	_		_				
•	_				-		
10" Set 10" Pulled	1 _		_    -				
8" Set 8" Pulled	1						
7" Set 21 6%" Pulled	<u> </u>				$\parallel$		
4" Set 4" Pulled							
2" Set 2" Pulled							=_

-1-

Thickness of		Total	·
Strata	Formation	Depth	Remarks
0-6	Soil Clay	G	
12	line!	18	
11	Shale	39	
26	Lime	55	
68	Shile	123	
20	Line	143	
12	Shale	155	
10	Line	165	
34	5mle	199	
3'	Line	202	
40	Shale	242	
	Line	253	
15	Shale	268	
27	Line	295	
5	Shale	300	
21	Lime	321	
2	Share	323	
4	Line	327	
5	Shale	332	
10	Line	342	Hertha
44	Shale	384	
9	SAND	395	Very Smull oil show
17	Sandy Shall	412	9 311 317 3
128	Shart	540	
8	Lim	548	
3	Shale	551	
7	Eine	558	
	-2-		

	<u> </u>	<i>5</i> 58	
Thickness 😚 Strata	Formation	Total Depth	Remarks
<b>S</b>	SARD	566	Grey, No of)
_10	Shale	576	3, 39, 700 21,
_5	line	581	
	5hale	592	
<u>6</u>	Line	598	
3	5 hal	601	
9	Lime	610	
8	Thale	618	
1	Cine	619	
_7	Shale	626	
_ 5	Ome	631	
49	Shale	680	
45	Sand	684	Broken, Good oil show
4	Sand	688	Solid Very Grood oil show
5	Sand	693	Mostly Solid, OK oil show
13	Sandy Shale	705	- John Cie Bil Show
75	Shale	780	TD
·			
		<u> </u>	
			· · · · · · · · · · · · · · · · · · ·
		¢	

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CEMENT	TRE	ATMEN	T REPO	DRT					
Cust	omer:	TDR Construction		Well:		Kern 18	Ticket:	EP4920	
City,	State:	Louisburg, KS		County:		MI, KS	Date	6/14/2022	
Field	d Rep:	Lance T	own		S-T-R:		18-16-24	Service	Longstring
		na Susana		1					
		nformatio			Calculated S				culated Slurry - Tail
Hole I	Size:	5 5/8			Blend:		obond	Blend	<del></del>
Casing		780			Weight:	13.61		Weight	
Casing I		2 7/8			Water / Sx:		gal / sk	Water / Sx	
Tubing /		770	in		Yield:	1,56	ft³/sk	Yield	
	Depth:		ft		Annular Bbls / Ft.:		bbs / ft.	Annular Bbls / Ft.	
Tool / Pa		baf			Depth:		ft	Depth	
	Depth:	738.7		1	Annular Volume:	0.0	bbls	Annular Volume	
Displace			bbls		Excess:			Excess	
Биоричес		4.20		TOTAL	Total Slurry:	23.06		Total Slurry	
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks:	83	sks	Total Sacks:	0 sks
3:30 PM					on location, held safet	y meeting		general designation of the second	
0.001111					on rosauon, nero saret	ymeeting			
	4.0				established circulation	1			
	4.0				mixed and pumped 200		Gel followed by 4 bbl	s fresh water	
	4.0			-	mixed and pumped 83				
	4.0				flushed pump clean				
	1.0				pumped 2 7/8" rubber j	plug to baffle	e with 4.28 bbls fresh	water	
	1.0				pressured to 800 PSI, v		,		
					released pressure to s	et float valv	e		
	4.0				washed up equipment				
				-					
4:30 PM					left location				
		*					***		
								was and the state of the state	
	-			-					
	10000				particular designation of the second				
		CREW			UNIT		A SULL BY	SUMMAI	Y
Cen	nenter:	Case	y Kenned	dy	931		Average Rate	Average Pressure	Total Fluid
Pump Op			Beets		239		3.1 bpm	- psi	- bbls
	Bulk:		n Katzer		247				
New York	H2O:	Keitl	Detwile	r	124				