KOLAR Document ID: 1660308

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					
Contact Person:	Footages Calculated from Nearest Outside Section Corner:					
Phone: ()	□NE □NW □SE □SW					
CONTRACTOR: License #	GPS Location: Lat:, Long:					
Name:	(e.g. xxx.xxxxx) (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:					
☐ Oil ☐ WSW ☐ SWD	Producing Formation:					
Gas DH EOR	Elevation: Ground: Kelly Bushing:					
OG GSW	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? ☐ 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	Drilling Fluid Management Plan					
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)					
	Chloride content: ppm Fluid volume: bbls					
☐ Commingled Permit #:	Dewatering method used:					
SWD Permit #:	Location of fluid disposal if hauled offsite:					
EOR Permit #:	Location of fluid disposal if flauled 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:							

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Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	Ea	ast West	County:					
	flowing and shu	ıt-in pressures, w	hether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.go\	. Digital electronic log	
Drill Stem Tests Ta			Yes No		_	on (Top), Depth ar		Sample	
Samples Sent to G	Geological Surv	ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		R			New Used	on, etc.			
Purpose of Strir		Hole	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / S	QUEEZE RECORD	I			
Purpose:		epth Ty	pe of Cement	# Sacks Used	red Type and Percent Additives				
Protect Casi									
Plug Off Zon									
 Did you perform a Does the volume o Was the hydraulic 	of the total base f	luid of the hydraulic	fracturing treatment	_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three (,	
Date of first Producti Injection:	ion/Injection or Re	esumed Production	/ Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			N INTERVAL: Bottom	
	_	on Lease	Open Hole			mmingled mit ACO-4)	Тор	Bottom	
,	, Submit ACO-18.)				· · · · · · · · · · · · · · · · · · ·				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	Size:	Set /	At:	Packer At:					
. 5213 (1200) 10.	JIEG.			. 30.0.71					

Form	ACO1 - Well Completion
Operator	Somerset Energy Enterprises, LLC
Well Name	KERN 23
Doc ID	1660308

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	_	Type Of Cement		Type and Percent Additives
Surface	9.875	7	17	20	Portland	3	NA

Short Cuts

TANK CAPACITY

BBLS. (42 gal.) equals D2x.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) + $(D-d)^2$

* Need these to figure belt length

WATTS = AMPS

TO FIGURE AMPS:

VOLTS

746 WATTS equal 1 HP

Log Book

arm	ern	
KS	\mathcal{M}	iami
(State)		(County)
18	16	24
(Section)	(Township)	(Range)

Dry Hole

(Well Owner)

Town Oilfield Services, Inc.

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

	Lern Farm: Miami County LS State; Well No. 23	,	CASING AND TUBING MEASUREMENTS						
	<u> </u>	<u>-</u>	Feet	ln.	Feet	In.	Feet	, in.	
	Elevation 1045 ft.	(*		1			~. <u>.</u>		
<i>P</i>	Commenced Spuding Nay 20, 20, 22 Finished Drilling 70, 20, 20, 20				•				
	Finished Drilling								
	Driller's Name Ryan Ward	_			٠.				
, i l	Driller's Name	_							
	Driller's Name								
	Tool Dresser's Name Jay Senders								
	Tool Dresser's Name		<u> </u>						
	Tool Dresser's Name	_							
	Contractor's Name TDR Construction	_				-		_	
	18 16 24		<u> </u>						
	(Section) (Township) (Range)	_							
	Distance from 5 line, 1893 ft.	· -	<u> </u>						
	Distance from E line, 1836 ft.	_			F				
	3 sucks cement	-			-				
29: • 1		· . -			_				
		_						_	
				_	_			_	
	CASING AND TUBING	_			_				
٠.	RECORD					1			
•		_		·					
	10" Set 10" Pulled	! _							
8	8" Set 8" Pulled	İ		_		_			
7	% Set 20' 6%" Pulled	_				_			
.	4" Set 4" Pulled	· _=							
	2" Set 2" Pulled				-1-				

Thickness of Strata	Formation	Total Depth	Remarks
0-7	Soil + Clay	7	
9	Shale"	16	
19	Line	35	
CA	Shale	104	
20	Line	124	
12	Shale	136	
9	lime	145	
9	Shale	156	
5	Sand	161	<u> </u>
18	Shale	179	<u> </u>
4	Lime	183	
39	Shale	222	
11	Line	833	
19	5 hale	252	
21	Line	273	
6	Shale	279	
22	Line	301	
3	Shale	304	
17	Lime	321	
42	Shale	363	
1-3	Sand	374	Grey. No oil
145	Shule	521	
11	Line	532	
5	Shale	537	
6	lime	543	
4	Sand	54	547 Grey, Novil
5	Sandy Shede	552	7) 100 3.1
	-2- '	•	-3-

		552	
Thickness of Strata	Formation	Total Depth	Remarks
10	Shale	562	,
4	Lime	566	7
9	Shale	575	
Ğ	Line	581	
5	Shale	586	
50.80	Line	594	
28	Shall	622	- 1
2	Erm	624	
	Shale	671	
	Sandy Shale	674	
	Sand	681	- Dark Grey, No oil
	Sandy Shake	695	
	Shale	727	
	Sand	734	- Cantary. No oil
	Sandy Shale	746	
	Line	752	
	Shale	フフィ	
	Line	776	
	5 hale	800	T.D.
			-
	· · · · · · · · · · · · · · · · · · ·	****	



CEMEN'	TRE	ATMEN	IT REP	ORT	· · · · · · · · · · · · · · · · · · ·				
			nstructi		Well:		Kern, 23	Ticket:	EP5250
City,	State:	Wellsvi	lle, KS		County:		Mi, Kansas	Date:	7/13/2022
	d Reps				S-T-R:		16-18-24	Service:	plug
	· ·								
Dow	nhole l	nformati	on		Calculated SI	urry - Lead		Calc	ulated Slurry - Tail
Hol	e Size:	5 5/8	l In		Blend:	H-Plu	3	Blend:	
Hole	Depth:	750	ft		Weight:	13.5 pp	g	Weight:	ppg
Casin	g Size:		in		Water / Sx:	7,5 ga	ıl / sx	Water / Sx:	gal / sx
Casing	Depth:		ft		Yield:	1.50 ft ²	/ sx	Yield:	ft ³ / sx
Tubing /	Liner		in		Annular Bbls / Ft.:	bb	ıs / ft.	Annular Bbls / Ft.:	bbs / ft.
1	Depth:		ft		Depth:	ft		Depth:	ft
Tool / P	acker				Annular Volume:	0.0 bk	ils	Annular Volume:	0 bbls
Tool	Depth:		ft		Excess:			Excess:	
Displace	ment		bbls		Total Slurry:	0.0 bt	ıls	Total Slurry:	0.0 bbls
			STAGE	TOTAL	Total Sacks:	0 sx		Total Sacks:	0 sx
TIME	RATE	PSI	BBLs	BBLs	REMARKS	A Hill State Co.			1: 1
			1 - 1				and the same of th		
9:00 AM					On location, Held saftey	/ meeting			
					Established circulation	through 1" plr	ne set at 750'		
	<u> </u>		<u> </u>	•	Mixed and pumped 30 s	ks of H-Plug c	ement		
				*	Rig Pulled 1" pipe to 25	0"			
				•	mixed and pumped cem	ent to surface			
			1	_	Rig Pulled 1" pipe				
			<u> </u>		Topped off well				
			 		washed up equipment				
			ļ						
11:00 AM			 		Left location				
			<u> </u>						
			-						
			 						
	 					·			
									
			1						
·····	1		1					2/10/7	
	-		1 1						
			1						
	┼		+ -	<u></u>					
	-		 						
		ODE			UNIT			SUMMAR	Y
eli sa tatura da saa		CREV					Average Rate	Average Pressure	Total Fluid
	menter:		rett Scott		89	-	0.0 bpm	- psi	- bbls
Pump O			in Katzer			-	A's abili	Po.	I amount a second of the secon
	Bulk #1: Bulk #2:		or Glasgo h Detwiler		246 124				
	1145167				1				

ftv: 15-2021/01/25 mplv: 272-2022/06/30