Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1370826

Form ACO-1 November 2016 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 🗌 East 🗌 West						
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 #	GPS Location: Lat:, Long:						
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)						
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 ☐ 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:	W/ SX SING						
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)						
Commingled Permit #:	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	Quarter Sec TwpS. 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:									

Page Two

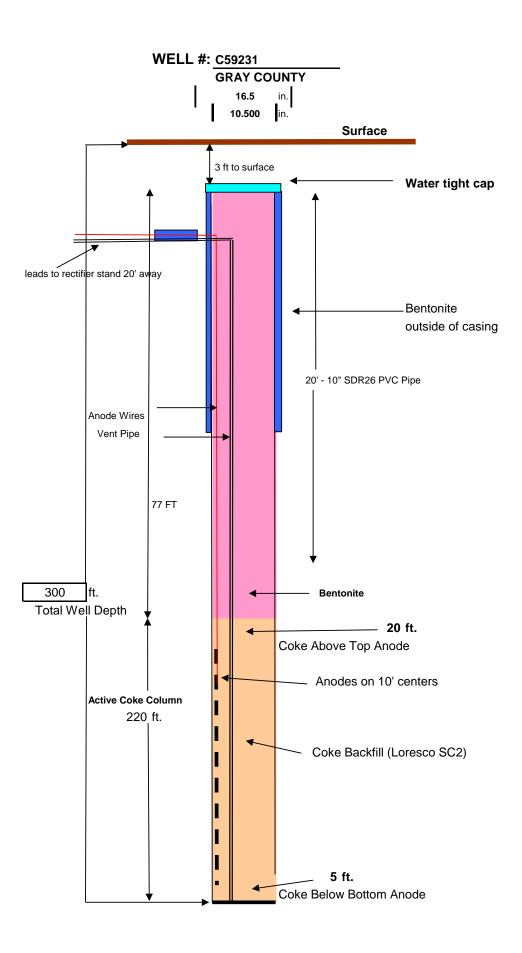
1370826

Operator Name:					Lease Na	ıme: _			Well #:			
SecTwp	oS. F	R	East	West	County: _							
	flowing and sh	ut-in pressure	s, whe	ther shut-in pre	essure reache	ed stati	c level, hydrosta	tic pressures, t		val tested, time tool erature, fluid recovery,		
Final Radioactivit files must be sub							gs must be ema	iled to kcc-wel	l-logs@kcc.ks.gov	v. Digital electronic log		
Drill Stem Tests T			Ye	es No		L		on (Top), Depth		Sample		
Samples Sent to	Geological Sur	vey	Ye	es No		Nam	е		Тор	Datum		
Cores Taken Electric Log Run Geolgist Report / List All E. Logs R	_		 Y€ Y€	es No								
			Repo		RECORD conductor, surfa	Ne	w Used	on, etc.				
Purpose of Str	ring Siz	e Hole		e Casing	Weight		Setting	Type of	# Sacks	Type and Percent		
1 uipose oi oti	"' ⁹ D	rilled	Set	(In O.D.)	Lbs. / F	t.	Depth	Cement	Used	Additives		
				ADDITIONAL	CEMENTING	a / SQL	JEEZE RECORD					
Purpose: Depth Top Bottom				of Cement	# Sacks U	sed		Type an	d Percent Additives			
Perforate Protect Case	sing											
Plug Back Plug Off Zo												
1 lug 0 li 20												
1. Did you perform	a hydraulic fractu	ring treatment o	n this w	ell?			Yes	No (If No,	skip questions 2 an	nd 3)		
2. Does the volume	e of the total base	fluid of the hydr	aulic fra	cturing treatmen	t exceed 350,00	00 gallo	ons? Yes	No (If No,	skip question 3)			
3. Was the hydrauli	ic fracturing treatr	nent information	submit	ted to the chemic	cal disclosure re	egistry?	Yes	No (If No,	fill out Page Three	of the ACO-1)		
Date of first Produc	ction/Injection or F	Resumed Produc	ction/	Producing Met	hod:							
Injection:				Flowing	Pumping		Gas Lift C	ther (Explain)				
Estimated Produc Per 24 Hours	tion	Oil Bbls	S.	Gas	Mcf	Wat	er Bl	ols.	Gas-Oil Ratio	Gravity		
DISPO	OSITION OF GAS	:		N	METHOD OF C	OMPLE	TION:			N INTERVAL:		
Vented	Sold Use	d on Lease		Open Hole	Perf.			nmingled	Тор	Bottom		
(If vente	d, Submit ACO-18.)				(Submit	ACO-5) (Subi	mit ACO-4)				
Shots Per	Perforation	Perforation	1	Bridge Plug	Bridge Plug		Acid,	Fracture, Shot, (Cementing Squeeze	Record		
Foot	Тор	Bottom		Туре	Set At			(Amount and k	Kind of Material Used)			
						-						
TUBING RECORE): Size:		Set At:	<u> </u>	Packer At:							

Form	ACO1 - Well Completion
Operator	Southern Star Central Gas Pipeline, Inc.
Well Name	C59231 01
Doc ID	1370826

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	16.500	10.500	70	20	BENTONI TE HOLE PLUG	27	WATER





Deep Well GroundBed Data:			Date: 09/21/17								
Job Number:	Drilling Contractor: MCLEANS CP INSTALLATION, INC.										
Company Name:	SOUTHERN STAR		Facility/Line: C59231 - RECT 645								
Subject:	DEEP WELL				State:	KS					
Well Depth:	300FT				County:	GRAY					
Diameter:				Other-Driller:							
Casing:	20FT OF 10IN PVC			Dri	lling Method:	MUD					
Type of Backfill:	SC2			Base Use	eable Water:	N/A					
Anode Type:	1 SET OF 20 ANOTE	CH 2684									
	37.58816528, -100.36			TE	ST VOLTS:	13.6					
Remarks:	SAMPLES COLLECT	ED FOR KS GEO				•				-	
	Drilling Log		Ele	ectrical L	oa				Anode L	oa	
			BE	FORE BACKE	ill				AFTER BAG		
Depth:	Formation Type:	Material:	Volt	Anode	Anode #		١ ١	/olt	Anode	Anode #	
- <u>- </u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Depth					Depth		
0'	SANDY CLAY	CASING/HOLEPLUG									
5'	SANDY CLAY	CASING/HOLEPLUG									
10'	SANDY CLAY	CASING/HOLEPLUG							<u>† </u>		
15'	SANDY CLAY	CASING/HOLEPLUG									
20	SANDY CLAY	CASING/HOLEPLUG									
25	SANDY CLAY	HOLEPLUG							<u>† </u>		
30	SANDY CLAY	HOLEPLUG							<u>† </u>		
35	SANDY CLAY	HOLEPLUG							<u>† </u>		
40	SANDY CLAY	HOLEPLUG							1		
45	SANDY CLAY	HOLEPLUG									
50	SANDY CLAY	HOLEPLUG									
55	SANDY CLAY	HOLEPLUG					+ +			 	
60	SANDY CLAY	HOLEPLUG									
65	SANDY CLAY	HOLEPLUG					+ +			 	
70	SANDY CLAY	HOLEPLUG					+ +				
	SANDY CLAY	HOLEPLUG					+ +				
80	SANDY CLAY	COKE					+ +				
85	SANDY CLAY	COKE								 	
90	SANDY CLAY	COKE					+ + +			 	
95 95	SANDY CLAY	COKE					+ + +			 	
100	SANDY CLAY	COKE								 	
105	SANDY CLAY	COKE	1.80		20					 	
110	SANDY CLAY	COKE	1.60		20		+ + +			 	
115	SANDY CLAY	COKE	2.20		19		+ + +			 	
120	SANDY CLAY	COKE	2.20		19					 	
125	SANDY CLAY	COKE	2.09		18		+ +				
130	SANDY CLAY	COKE	2.09		10		+ + +			 	
135	SANDY CLAY	COKE	0.92		17				-		
135	SANDY CLAY	COKE	0.92		17	-	\vdash		1		
140 145	SANDY CLAY SANDY CLAY	COKE	0.63		16				-		
150	SANDY CLAY	COKE	0.03		10				-		
150	SAND	COKE	0.49		15	-	\vdash		1	——	
160	SAND	COKE	0.49		10				1	 	
165	SAND	COKE	0.84		14		 		1	 	
170	SAND	COKE	0.04		14				1		
170 175	SAND	COKE	2.45		13		\vdash		-		
180	SAND	COKE	2.40		13				-		
185	SAND	COKE	0.73		12		 		1	 	
190	SAND	COKE	0.73		12				-		
190	SAND	COKE	0.67		11		\vdash		-		
			0.07		11		\vdash		-		
200	SHALE	COKE	2.05		40				-		
205	SHALE	COKE COKE	2.65		10		\vdash		1		
210	SHALE SHALE		2.64		^		\vdash		-		
215	_	COKE	3.61		9				1		
220	SHALE SHALE	COKE	2.70		0				1		
225	_	COKE	2.79		8				1		
230	SHALE	COKE	0.00		-				1	-	
235	SHALE	COKE	2.88		7				1		
240	SHALE	COKE	0.00		_				1		
245	SHALE	COKE	2.63		6				1		
250	SHALE	COKE	1	1	1	ı	1 1		1		



	Deep Well GroundBed			Date:	09/21/17						
Job Numb	per: SST19-2017-KS			Drillin	g Contractor:	MCLEANS (CP INSTALLA	TION, INC	; .		
Company Nar	me: SOUTHERN STAR				Facility/Line:	C59231 - RE	CT 645				
	ect: DEEP WELL				State:	KS					
Well Dep	oth: 300FT			County:	GRAY						
Diamet	ter: 10IN			Other-Driller: TR							
Casi	ng: 20FT OF 10IN PVC			Drilling Method: MUD							
Type of Back	fill: SC2			Base Us	eable Water:						
Anode Ty	pe: 1 SET OF 20 ANOTE	CH 2684									
GF	PS: 37.58816528, -100.36	133575		<u>TE</u>	EST VOLTS:	13.6					
Remar	ks: SAMPLES COLLECT	ED FOR KS GEO									
	Drilling Log			Electrical Log Anode I					<u>.og</u>		
			BE					AFTER BAC	TER BACKFILL		
Depth:	Formation Type:	Material:	Volt	Anode	Anode #		Volt	Anode	Anode #		
				Depth				Depth			
255	SHALE	COKE									
260	SHALE	COKE	2.31		5						
265	SHALE	COKE									
270	SHALE	COKE	2.33		4						
275	SHALE	COKE									
280	SHALE	COKE	3.08		3						
285	SHALE	COKE									
290	SHALE	COKE	4.33		2						
295	SHALE	COKE									
300	SHALE	COKE	5.27		1						