KOLAR Document ID: 1465769

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: 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.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	
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:
Dual Completion Permit #:	
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or 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 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 rature, 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				EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Top Bottom "Top Bottom" " Sacks Osed			Type and Forcent 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				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	La Grange Acquisition, LP dba Energy Transfer Company
Well Name	LIBERAL 13.7 1
Doc ID	1465769

### Casing

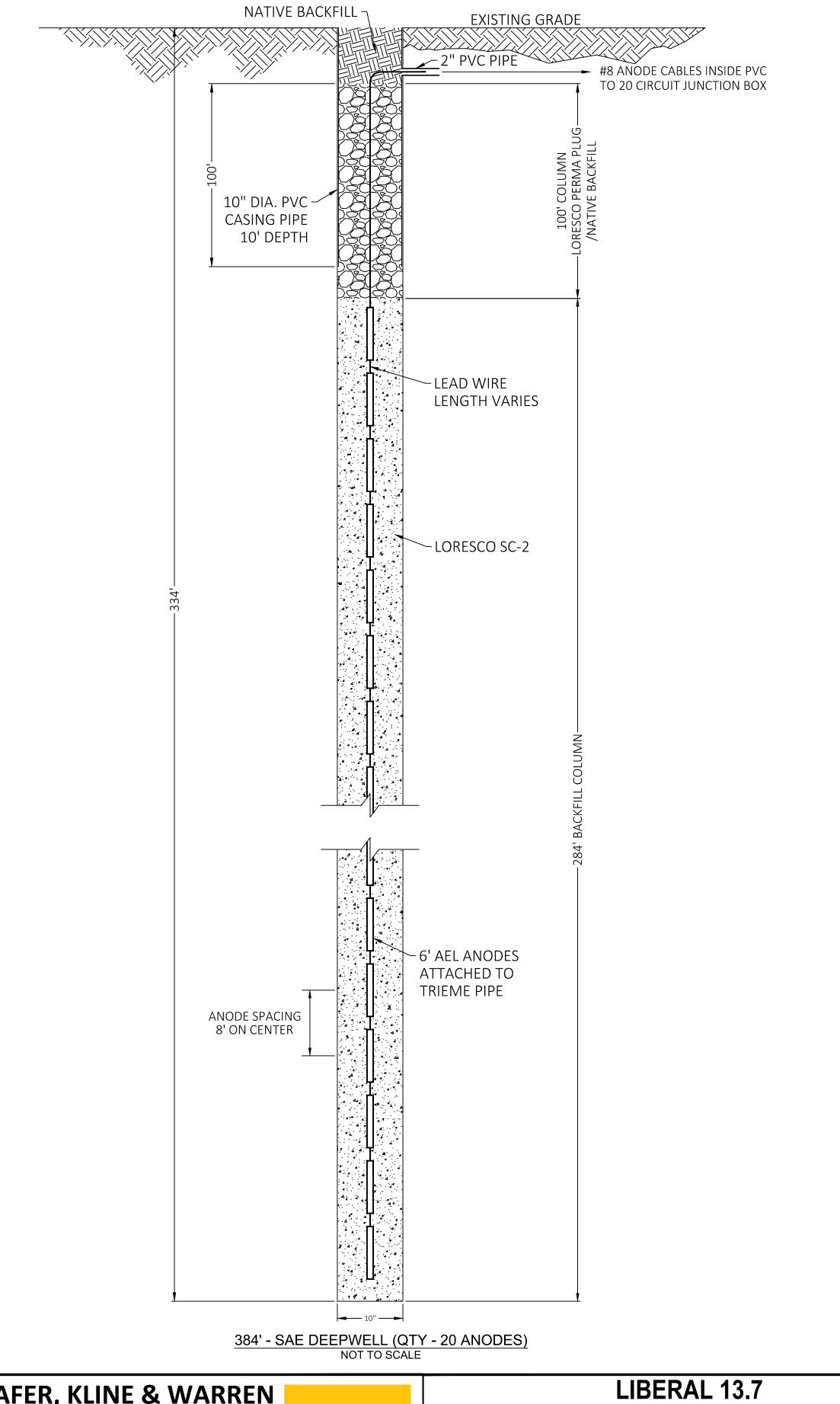
Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Cement		Type and Percent Additives
Surface	16	10	11.05	100	Bentonite	75	0

## MATERIAL LIST

MATERIAL	QUANTITY	UNIT
6' AEL ANODES (SAE DEEPWELL ANODES)	20	EA
1/O HMWPE BLACK CABLE (NEGATIVE CONNECTION)	850	LF
DEEPWELL GPS ( 37.292495, -100.580508)	1	EA
80V-80A RECTIFIER GPS ( 37.292497, -100.580595)	1	EA
20 CIRCUIT GALVANIZED JUNCTION BOX GPS (37.292497, -100.580595)	1	EA
CONDUCRETE (55LB BAGS)	167	EA
LORESCO PERMA PLUG	75	EA
100 LINE - NEGATIVE CONNECTION (37.294232, -100.580565)	1	EA
200 LINE - NEGATIVE CONNECTION (37.292757, -100.580528)	1	EA
300 LINE - NEGATIVE CONNECTION (37.292224, -100.580546)	1	EA
400 LINE - NEGATIVE CONNECTION (37.292017, -100.580529)	1	EA

## LOGGING ANODE READINGS (LOGGED AT 14.26 DC VOLTS)

DEPTH	READING (OHMS)	DEPTH	READING (OHMS)	DEPTH	READING (OHMS)
380	10.8	250	16.7	120	12.1
370	11.6	240	23.7	110	22.2
360	11.0	230	26.8	100	24.9
350	9.7	220	27.9	90	22.9
340	4.3	210	18.7	80	6.1
330	4.0	200	8.6	70	5.2
320	4.5	190	24.1	60	8.6
310	13.8	180	9.7	50	11.9
300	13.9	170	12.9	40	7.1
290	12.0	160	5.8	30	6.3
280	12.9	150	9.4	20	9.4
270	10.0	140	8.7		
260	4.8	130	5.4		



REFERENCE DRAWINGS REVISIONS NOTES: DESCRIPTION

# SHAFER, KLINE & WARREN

1700 Swift Street, Suite 100 North Kansas City, MO 64116-3821 816.756-0444 FAX: 816.756-1763 SURVEYING | ENGINEERING | CONSTRUCTION



# PANHANDLE EASTERN PIPELINE COMPANY **GROUNDBED ANODES AS-BUILT**

AWN BY:	TECH	CREATION DATE: 12/31/17	AFE No.:			
PROVED:	RM/JC	APPR. DATE: -				
EC USED:	N/A	DWG. No.:	SHEET No.			
ALE:	N.T.S.	LIBERAL 13.7 AS-BUILT.DWG 2 OF 2				