KOLAR Document ID: 1536945

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 East West
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.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	Amount of Surface Pipe Set and Cemented at: Feet
<ul><li>☐ CM (Coal Bed Methane)</li><li>☐ Cathodic</li><li>☐ Other (Core, Expl., etc.):</li></ul>	Multiple Stage Cementing Collar Used? Yes No
	If yes, show depth set: Feet
If Workover/Re-entry: Old Well Info as follows:	
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)
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 #:	·
GSW	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: 1536945

### 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 erature, 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	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia reicent 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		Dually		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	ANR Pipeline Company
Well Name	MP 1396 1
Doc ID	1536945

### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	16	10	12.635	192	NEAT	COMMON 3%+2% GEL

### GMD #5 CATHODIC WELL COMPLETION (AS BUILT) PLAN PURSUANT TO K.A.R. 82-3-706 Big Bend Groundwater Management District No. 5 125 South Main St. P.O. Box 7

		ı ıvıalıı St. I					
MP 139.6	Staffor	rd, Kansas	67578			ICT PERMIT N	IUMBER
		1	1	1	CPB-20-04 Section	Township	Range
Well Location: KIOWA		NW	NW	NW	15	28S	19W
County		1/-	1/4	1/4	.0	200	1.0
APPLICANT:	RECEI	/ED	CONTRACT	ΓOR/DRILLE	R:	License No.	6427
Contact Person: ALFRED YOUNG	NECLI	V L D		on: GREG DC			
		0000				200000 1110	
Name: ANR PIPELINE	Nov 16	2020		ENCRANTZ-B		RPRISES, INC	<i>'</i> .
Address: 2135 11RD	<u> </u>		Address: 391	16 WEST 56	TH AVE		
City/State/Zip Code: ALDEN, KS 67512	Big Bend G	MD #5	City/State/Zip	Code: HUTCH	HINGSON, KS	S 67502	
Telephone No. 580-774-8418		_	Telephone No	620-662-790	1		
Fax No.			Fax No.				
	NO (circle one) O (circle one)	-		NW	SE	E	
Diameter 10"							
Casing material SCH 80 PVC		Drilling	pit construction	: (Mark Yes o	or No)		
Outside diameter of surface casing: 10.750		_ 	draulic condutivit	v of hottom and	cida loca than	1 v 10 <sup>-7</sup> om coo:	Yes
Minimum wall thickness .593			ove Ground: YES		Side less triair	1 X 10 CIII.5CC.	
SDR			table: YES				
Casing interval 3' TO 192'		-					
Centralizer locations:	feet bls	_					
Grout material Neat Cement		Number	of copies of well	completion form	ouhmitted to C	MD #5. 1	
Grout intervals 3 to 197	feet bls	_					
Anode conductor (backfill) material: LORESCO		- I	of copies of geopl		-		
Anode conductor interval: 202 to 430	feet bls	Number	of copies of Comp	pletion (as built p	olan) form subr	nitted to GMD #	ō: <u>1</u>
Anode interval 420,410,400,390,380,370,360,350,340,330,320,310,300,290,2	180,2 feet bls	1					

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG
0	12	SANDY TOP SOIL			
12	58	FINE SAND AND TAN CLAY			
58	60	FINE SAND AND TAN CLAY MIX W/ PIECES OF CLALICHE			
60	79	FINE SAND W/ PIECES OF CALICHE			
79	83	FINE TO COARSE SAND			
83	99	FINE SAND			
99	104	SAND FINE MEDIUM			
104	123	FINE TO COARSE SAND			
123	125	FINE TO COARSE SAND MIXED W/ TAN CLAY			
125	136	FINE TO COARSE SAND AND GRAVEL			
136	146	FINE TO COARSE SAND AND GRAVEL			
146	156	FINE TO COARSE SAND AND GRAVEL			
156	162	FINE TO COARSE SAND AND GRAVEL			
162	167	FINE TO COARSE SAND AND GRAVEL W/ TRACES OF BROWN CLAY AND LIGHT GRAY SHALE			
167	191	GRAY SHALE			
191	321	GRAY SHALE			
321	435	GRAY SHALE			

Date Submitted: 11/10/20

# GMD #5 CATHODIC WELL COMPLETION (AS BUILT) PLAN PURSUANT TO K.A.R. 82-3-706 Big Bend Groundwater Management District No. 5

125 South Main St. P.O. Box 7 Stafford, Kansas 67578

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHOLOGIC LOG

Confidentiality Requested:

Yes No

Signature: \_

Title: PROJECT MANAGER

### Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
July 2014
Form must be Typed
Form must be Signed
All blanks must be Filled

## WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32953	API No. 15 - CPB-20-04
Name: ANR PIPELINE	Spot Description: MP 139.6
Address 1:2135 11TH RD	NW_NW_NW_Sec. 15 Twp. 28S S. R. 19W East West
Address 2:	204 Feet from V North / South Line of Section
City: ALDEN State: KS Zip: 67512 +	39 Feet from East / West Line of Section
Contact Person: ALFRED YOUNG	Footages Calculated from Nearest Outside Section Corner:
Phone: ( 580 ) 774-8418	□NE ✓NW □SE □SW
CONTRACTOR: License # 6427	GPS Location: Lat: <u>37.61544</u> , Long: <u>-99.39441</u>
Name: ROSENCRANTZ-BEMIS ENTERPRISES, INC.	(e.g. xx.xxxxx) (e.gxxx.xxxxx)
Wellsite Geologist: N/A	Datum: ☐ NAD27 ✓ NAD83 ☐ WGS84
Purchaser: N/A	County: KIOWA
Designate Type of Completion:	Lease Name: MP 139.6 Well #: 1
New Well ✓ Re-Entry Workover	Field Name:
□ Oil □ WSW □ SWD □ SIOW	Producing Formation: N/A
Gas D&A ENHR SIGW	Elevation: Ground: 2267 Kelly Bushing: N/A
☐ OG ☐ GSW ☐ Temp. Abd.	Total Vertical Depth: 435 Plug Back Total Depth: 202'
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: 192 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: ROSENCRANTZ-BEMIS ENTERPRISES,INC.	If Alternate II completion, cement circulated from:
Well Name:139.6	feet depth to:sx cmt.
Original Comp. Date: 8/20/2004 Original Total Depth: 321'	
✓ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	Drilling Fluid Management Plan
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	(Data must be collected from the Reserve Pit)
Commingled Pormit #	Chloride content:ppm Fluid volume: 80 bbls
Commingled         Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	
GSW Permit #:	Operator Name: UNDERGROUND CAVERN STABILIZATION LLC
9/14/20 9/17/20 9/19/20	Lease Name: UCS HUTCHINSON FACILITY License #: KS-05155-002
Spud Date or Date Reached TD Completion Date or	Quarter SW Sec. 14 Twp. 24 S. R. 6 East W West
Recompletion Date Recompletion Date	County: RENO Permit #: 128-1109
days of the spud date, recompletion, workover or conversion of a well. If co	n Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 infidentiality is requested and approved, side two of this form will be held confibrill Stem Test, Cement Tickets and Geological Well Report must be attached.
AFFIDAVIT	KCC Office Use ONLY
am the affiant and I hereby certify that all requirements of the statutes, rule	s and
regulations promulgated to regulate the oil and gas industry have been fully cor with and the statements herein are complete and correct to the best of my know	
with and the statements herein are complete and correct to the best of my know	Confidential Polesco Date:

Date: \_11/10/20

☐ Wireline Log Received

☐ UIC Distribution

Geologist Report Received

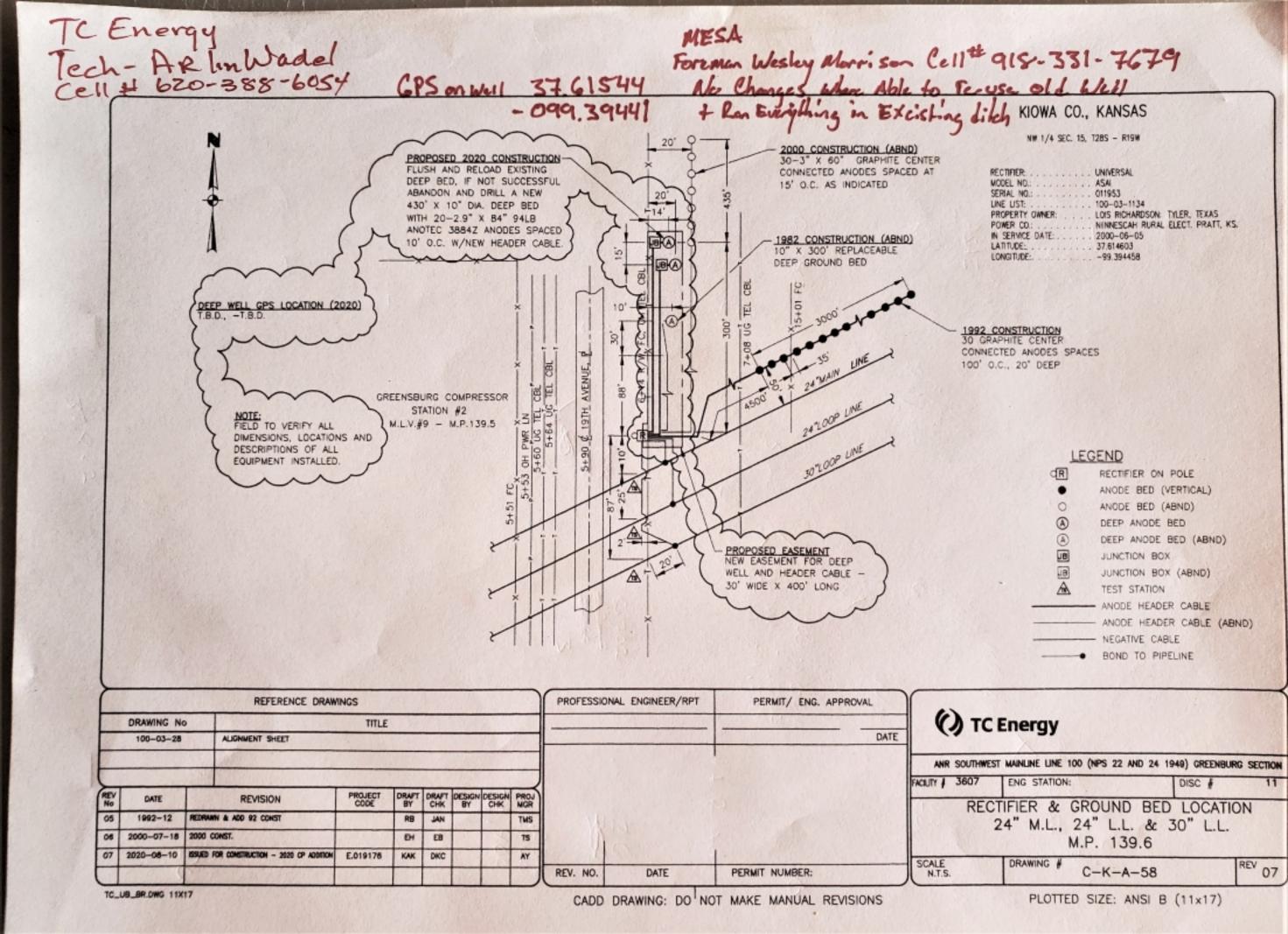
ALT I II III Approved by: \_\_

Date:

### Page Two

Operator Name: ANR	PIPELINE			_ Lease	Name: _\	/IP 139.6		_ Well #:1		
Sec. 15 Twp. 28S		East	West	County	: KIOW	'A				
INSTRUCTIONS: Show open and closed, flowing and flow rates if gas to	ng and shut-in pressu	ures, whe	ther shut-in pre	ssure read	ched stati	c level, hydrosta	tic pressures, bo			
Final Radioactivity Log, files must be submitted						gs must be ema	iled to kcc-well-l	ogs@kcc.ks.go	v. Digital	electronic log
Drill Stem Tests Taken (Attach Additional Sh	neets)	Y	es 🔽 No			3	on (Top), Depth a			Sample
Samples Sent to Geolo	gical Survey	Y	es 🔽 No		Nam	9		Тор		Datum
Cores Taken Electric Log Run		☐ Y								
List All E. Logs Run:										
			0.400,00	DE00DD						
		Repo		RECORD conductor, s	Ne urface, inte	w V Used rmediate, producti	on, etc.			
Purpose of String	Size Hole Drilled		ze Casing t (In O.D.)	Wei Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent dditives
EXISTING SURFACE CASING	16	10		12.635		192	NEAT	155	COMMON 3% -	+ 2% GEL 155 CEMENT
			ADDITIONAL	CEMENTI	NG / SOL	EEZE RECORD				
Purpose:	Depth	Туре	of Cement	# Sacks			Type and	Percent Additives	<u> </u>	
Perforate Protect Casing Plug Back TD	Top Bottom									
Plug Off Zone										
Did you perform a hydraulic Does the volume of the tota Was the hydraulic fracturin	al base fluid of the hydr	aulic fractu	uring treatment ex		-	? Yes	No (If No, si	kip questions 2 a kip question 3) Il out Page Three	•	)-1)
Shots Per Foot			RD - Bridge Plugs Each Interval Perf				cture, Shot, Cemer		d	Depth
	Spoony :	ootago or		<u> </u>		(>		atonar edua <sub>j</sub>		2004
TUBING RECORD:	Size:	Set At:		Packer A	At:	Liner Run:	Yes No	)		
Date of First, Resumed P	roduction, SWD or ENI	HR.	Producing Meth	od:	ng 🗌	Gas Lift C	other (Explain)			
Estimated Production Per 24 Hours	Oil E	Bbls.	Gas	Mcf	Wate	er Bl	ols.	Gas-Oil Ratio		Gravity
	105040		-	1ETUO: 5	- 0011	TION		DD OF 110-	ON 1517-5	
DISPOSITION Sold	N OF GAS:  Used on Lease		M Open Hole	IETHOD OF Perf.		Comp. Con	nmingled mit ACO-4)	PRODUCTION	ON INTER	/AL:
(If vented, Subn	nit ACO-18.)		Other (Specify)		,	, (330)				

WATER WELL		WWC-5		vision of Wat	<b>I</b>		
Original Record		ge in Well Use		ources App. 1		Well II	
1 LOCATION OF V County: KIOWA	WATER WELL:	Fraction		ction Numb 15	1		ange Number 19 □ E <b>■</b> W
·	I - ANI	NW 1/4 NW 1/4 NW 1/4			where well is loca		
2 WELL OWNER: Business: ANR PIF	Last Name: PFLINF				or intersection): If at o		
Address: 2135 11					ŕ		_
Address:					ON OF HWY 54 8	19TH AVE	GO NORTH
City: ALDEN	State: KS	ZIP: 67512	ON 19TH A	<u>VE APPX</u>			
3 LOCATE WELL	4 DEPTH OF COM	MPLETED WELL:	430 f	t. 5 Latit	ude: 37.6	1544	(decimal degrees)
WITH "X" IN SECTION BOX:		Encountered: 1)		Long	itude: -99.	39441	(decimal degrees)
N SECTION BOX:	2) ft.	3) ft., or 4)	] Dry Well		ontal Datum: WC		
		TER LEVEL:			e for Latitude/Longi		
		e, measured on (mo-day-			GPS (unit make/mode		
NW NE		e, measured on (mo-day-yater was ft			(WAAS enabled	? ∐ Yes ∐	No)
W E	0 1	s pumping			and Survey ☐ Top Online Mapper: IPH	ONE SOLC	CATOR
"		water was ft			omme mapper		,
SW SE		s pumping	gpm	( El	2267	° = 6	
X	Estimated Yield:				ation: .2267		
S 1 mile		in. to		Sourc	ee: Land Survey Other		
1 mile  7 WELL WATER T		in. to	П.				
1. Domestic:		ater Supply: well ID		10 🗆 0	il Field Water Suppl	v: leace	
☐ Household		ng: how many wells?			Hole: well ID		
☐ Lawn & Garden	7. ☐ Aquifer R	echarge: well ID			ased Uncased		
Livestock		ng: well ID			hermal: how many b		
2.  Irrigation		al Remediation: well ID			losed Loop   Hori		
3. ☐ Feedlot	☐ Air Sparg		extraction	b) C	pen Loop  Surfac	e Discharge	Inj. of Water
4. ☐ Industrial	☐ Recovery				ther (specify): CAT		
	eriological sample subn	nitted to KDHE? $\square$	Yes No	If yes, dat	e sample was subn	nitted:	• • • • • • • • • • • • • • • • • • • •
Water well disinfected		70 F 04	CACI	NO IODITO		1 🗆 🕶 1	
Casing diameter 10	G USED: ☐ Steel ☐ PV	C U Other	CASI	NG JOIN IS	S: Glued L Clai	nped ∐ Weld	led  Threaded
Casing diameter	in. to 192 ft. surface -3 in	, Diametei	111. to	Wall thic	kness or gauge No	10	. <b>l.</b>
TYPE OF SCREEN O	OR PERFORATION MA	TERIAL:	105./10.	vv an tine	kness of gauge 110.		•
	ninless Steel			☐ Ot	her (Specify)		
☐ Brass ☐ Ga	lvanized Steel	erete tile   None us	sed (open hol		(1 ),		
	RATION OPENINGS A						
Continuous Slot	☐ Mill Slot ☐ G	auze Wrapped	rch Cut 🔲 I	Orilled Holes	Other (Specify)	٠	•••••
Louvered Shutter	☐ Key Punched ☐ W	Vire Wrapped	v Cut 🔳 I	None (Open I	Hole)		4. Δ
	TED INTERVALS: From ACK INTERVALS: From						
	AL: Neat cement						
Grout Intervals: From .	0 ft. to 192	ft From	ft. to	ft From	ft. to	ft.	
Nearest source of possil	ble contamination:	···,		,			
☐ Septic Tank	☐ Lateral Line			Livestock P		ecticide Stora	
☐ Sewer Lines	Cess Pool	☐ Sewage Lag		Fuel Storage		andoned Wate	
Watertight Sewer L	ines	☐ Feedyard		Fertilizer St	orage $\square$ Oi	Well/Gas We	II
Direction from well? N	/ATER WELL DOMES ORTH	Distance from we	2500			fi	
10 FROM TO	LITHOLO		FROM	ТО	LITHO. LOG (con	t.) or PLUGGI	NG INTERVALS
0 12	SANDY TOP SOIL		125	162	FINE COARSE		
12 58	FINE SAND & TAN C	LAY MIX	162	167	FINE COARSE		AVEL
58 60	FINE SAND & TAN C		167	191	GRAY SHALE		
60 79	FINE SAND W/PCS T	ΓAN CLAY	191	321	GRAY SHALE		
79 83	FINE TO COARSE S.	AND	321	430	GRAY SHALE		
83 99	FINE SAND						
99 104	FINE TO MEDIUM SA		Notes:				
104 123	FINE TO COARSE S.		4				
123 125	FINE TO COARSE S	AND MIX W/ TAN C			7	manar -4:: 4	1
under my jurisdiction	S OR LANDOWNER' and was completed on (n	5 CEKTIFICATION no_day_veer)	: 1 nis wate	this record	constructed,	reconstructed	i, or ∐ plugged
Kansas Water Well Co	ontractor's License No	This Wa	ter Well Re	cord was co	mpleted on (mo-ds	v-vear) 11/	0/20
under the business nan	ne of		Si	gnature			······
	ne of						
	St., Suite 420, Topeka, Kansas				one for your records. T	-	
Visit us at http://www.kdhel	ks.gov/waterwell/index.html		KSA 82a-12	212		Keviso	ed 7/10/2015



MESA

10-20-5142 PO/WO No. Date 9/18/2020 TC ENERGY Drilling Co. DARLING DRILLING Client GPS: Lat: Location MP 139.6 37.615440 Long: -99.394410 Calibrated Instrument Used FLUKE 177 S/N 97001156

Cuiibii	acca motium	iciic oscu	FLUKE 1//			•	3/N <u>9/00</u>	1130				
					Logging						e)	
Depth	Logging Volts:	13.8		Depth	Volts:	13.8				Depth	No Coke	t s
De	Amps	Ohms	Geological Log	De	Amps	Ohms	Geologic	al Log	No.	De	N O	With Coke
5			0-192 CASING	205					1	420	4.50	6.00
10				210	3.80	3.63			2	410	4.30	6.10
15				215					3	400	4.60	5.80
20				220	3.60	3.83			4	390	4.30	5.80
25				225					5	380	3.90	5.50
30				230	3.50	3.94			6	370	3.80	5.30
35				235					7	360	4.40	5.80
40				240	3.80	3.63			8	350	4.30	5.60
45				245					9	340	4.00	5.50
50				250	3.50	3.94			10	330	3.70	5.20
55				255					11	320	4.00	5.30
60				260	3.00	4.60			12	310	4.20	5.50
65				265					13	300	3.60	5.00
70				270	2.40	5.75			14	290	3.40	4.70
75				275					15	280	3.20	4.60
80				280	3.20	4.31			16	270	2.40	4.00
85				285					17	260	3.00	4.40
90				290	3.40	4.06			18	250	3.50	4.90
95				295					19	240	3.80	5.20
100				300	3.60	3.83			20	230	3.50	4.90
105				305					21			
110				310	4.20	3.29			22			
115				315					23			
120				320	4.00	3.45			24			
125				325					25			
130				330	3.70	3.73			26			
135				335					27			
140				340	4.00	3.45			28			
145				345					29			
150				350	4.30	3.21			30			
155				355					31			
160				360	4.40	3.14			32			
165				365					33	-		
170				370	3.80	3.63			34	-		
175				375					35			
180				380	3.90	3.54			36			
185				385					37	<u> </u>	,	
190				390	4.30	3.21			1	olts	13.80	13.80
195	2 ==	2.5		395		2.5-			1	mps	76.40	105.10
200	3.50			400	4.60	<u> </u>				hms	0.18	0.13
Hole D		10"	Total Depth:	430			Feet: 192'	Dia.:	10"	Type:	SCH 8	
No. An		20		884Z CAS		Anode Lea		Size:	#6	Type:	HAL	
Lbs. Co		8,500#		LORESCO		1	ke Column:	2	202'	Vent:	22	.υ'
Lbs. Plu	ug:	6,750#	Plug Type:	BENTO	NITE	Top of Plu	ıg:			5'		

MESA

PO/WO No. 10-20-5142 Date 9/18/2020 TC ENERGY Drilling Co. DARLING DRILLING Client GPS: Lat: Location MP 139.6 37.615440 Long: -99.394410 Calibrated Instrument Used FLUKE 177 S/N 97001156

ſ				1	Logging						αu	
th	Logging Volts:	13.8		th.	Volts:	13.8				oth	No Coke	e e
Depth	Amps	Ohms	Geological Log	Depth	Amps	Ohms	Ge	ological Log	No.	Depth	N <sub>O</sub>	With Coke
405				605					1			
410	4.30	3.21		610					2			
415				615					3			
420	4.50	3.07		620					4			
425				625					5			
430				630					6			
435				635					7			
440				640					8			
445				645					9			
450				650					10			
455				655					11			
460 465				660					12			
470				670					14			
475				675					15			
480				680					16			
485				685					17			
490				690					18			
495				695					19			
500				700					20			
505				705					21			
510				710					22			
515				715					23			
520				720					24			
525				725					25			
530				730					26			
535				735					27			
540				740					28			
545				745					29			
550				750					30			
555				755					31			
560				760					32			
565				765					33			
570				770					34			
575				775	<del>                                     </del>				35	1		
580				780	<u> </u>				36	-		
585				785					37	( . II .	42.05	
590				790	-				1	/olts	13.80	13.80
595				795	-					mps	#DIV/01	#DIV/0!
600		40"	Tatal Davids	800	<u> </u>	C:	F:	1031 7:		hms	#DIV/0!	
Hole Dia.: 10"			Total Depth:			Casing		192' Dia.:	10"	Type:		30 PVC
No. Anodes: 20 Lbs. Coke: 8,500#									#6 202'			
Lbs. Cok		8,500# 6.750#	Coke Type: Plug Type:	LORESCO						•		
LUS. PIU	5	6,750#	lug Type: BENTONITE			Top of Plug: 5'						

**Darling Drilling Company**Telephone (620) 662-7901 3916 W. 56<sup>th</sup> Ave. Hutchinson, Ks. 67501

### DRILLER'S TEST LOG

Date:

9/17/2020

Name:

Mesa/TransCanada Address: Greensburg, KS

County: Kiowa Co. MP 139.6

Quarter: NW

Section: 15

Township: 28

Range: 19

N DRILLED FOOTAGE To From **DESCRIPTION OF STRATA** 0 12 Sandy top soil 12 58 Fine sand and tan clay 58 60 Fine sand and tan clay mix w/ pieces of caliche 79 Fine sand w/ pieces of caliche 60 W E 79 83 Fine to coarse sand 99 83 Fine sand 99 104 Sand fine-medium 104 123 Fine to coarse sand 123 125 Fine to coarse sand mixed w/ tan clay 125 136 Fine to coarse sand and gravel Fine to coarse sand and gravel 136 146 146 156 Fine to coarse sand and gravel Static water level: Fine to coarse sand and gravel 156 162 Depth of well: 435ft Type & size of casing: SCH80 10" 162 167 Fine to coarse sand and gravel w/ traces of brown clay and light gray shale 191 Gray shale 167. Plain: PVC 0 to 192 ft 191 321 Gray shale Perf: n/a 321 435 Gray shale Gravel pack intervals: n/a NEAT CEMENT: 4ft to 192ft Contamination: n/a Direction from well: Original well drilled 6/24/04 from 0ft to 321ft 6/24/04 Casing above surface n/a Bore hole: 16" and 9" 9/17/20 Well was drilled an additional 114ft on 9/17/2020 from 321ft to 435ft NAD83 Latitude: 37.61544 Longitude: 099.39441