KOLAR Document ID: 1582457

Confiden	tiality Re	quested:
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

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:		
Name:	Spot Description:		
Address 1:			
Address 2:	Feet from Dorth / South Line of Section		
City: State: Zip:+	Feet from East / West Line of Section		
Contact Person:	Footages Calculated from Nearest Outside Section Corner:		
Phone: ()			
CONTRACTOR: License #	GPS Location: Lat:, Long:		
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)		
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 Gas DH EOR	Elevation: Ground: Kelly Bushing:		
	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?		
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 #: GSW Permit #:	Operator Name:		
	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East _ West		
Recompletion Date Reached TD Completion Date of 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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Operator Nar	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken (Attach Additional Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose: Depth Perforate		Туре	Type of Cement # Sa		ks Used		Type and Percent Additives		
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:			DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)		Bollom		
				Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion	
Operator	TDR Construction, Inc.	
Well Name	DUFFY 21A	
Doc ID	1582457	

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set		Setting Depth	Type Of Cement		Type and Percent Additives
Surface	9	6.25	10	20	Portland	4	50/50 POZ
Production	5.625	2.875	14	803	Portland	104	50/50 POZ

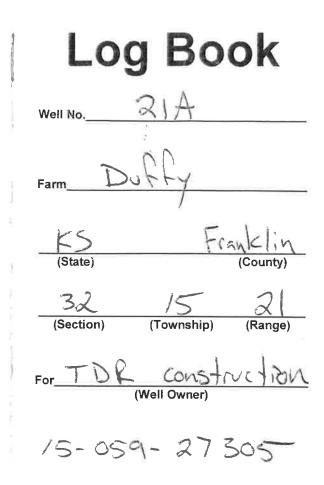
Franklin County, KS **TDR Construction, Inc.** Commenced Spudding:6/24/21 Well:Duffy 21A (913) 710-5400 Lease Owner:TDR Construction Inc.

WELL LOG

Thickness of Strata	Formation	Total Depth
0-30	Soil - Clay	30
19	Shale	49
8	Lime	57
3	Shale	60
17	Lime	77
8	Shale	85
10	Lime	95
3	Shale	98
20	Lime	118
39	Shale	157
19	Lime	176
78	Shale	254
23	Lime	277
25	Shale	302
5	Lime	307
23	Shale	330
1	Lime	331
19	Shale	350
11	LIme	351
16	Shale	367
23	Lime	390
9	Shale	399
22	Lime	421
4	Shale	425
5	Lime	430
4	Shale	434
5	Lime	439 hertha
123	Shale	562
4	Sand	566 no oil
10	sand	576 broken - good bleed
49	shale	625
7	lime	632
7	shale	639
7	lime	646
3	shale	649
7	lime	656
13	Shale	669
6	Lime	675
7	Shale	682
13	Lime	695

Franklin County, KSTDR Construction, Inc.Commenced Spudding:6/24/21Well:Duffy 21A(913) 710-5400 Well:Duffy 21A Lease Owner:TDR Construction Inc.

24	Shale	719
9	sandy shale	728 no oil
6	sand	734 broken - ok oil show
7	sand	741 mostly solid - ok oil show
1	sandy shale	742 no oil
13	Sand	755 solid - best saturation
9	Sand	764 solid - poor saturation
3	sand	767 black - no oil
73	shale	840 TD



Town Oilfield Services, Inc. 1207 N. 1st East Louisburg, KS 66053 913-710-5400

C .11 SIM County Farm: 21A State; Well No. 1015 Elevation 0 **Commenced Spuding** 20 L **Finished Drilling** 20 Driller's Name **Driller's Name** 0 **Driller's Name** nomp **Tool Dresser's Name Tool Dresser's Name Tool Dresser's Name** P **Contractor's Name** 32 21 14 (Range) (Section) (Township) 86 ft. **Distance** from line, Distance from ft. line, Ŷ Sacks hrs 9 75 borehale 5 CASING AND TUBING RECORD 10" Set 10" Pulled 8'' Set 8" Pulled 20 6¼" Set 6¼" Pulled 4" Pulled 4'' Set 2" Puiled 2" Set _____

CASING AND TUBING MEASUREMENTS

Feet	ln.	Feet	In.	Feet	ln.
805	K	ast 1	9		
					1
\$37	+1	oat		21	4
	->			X /	X
840	TV	\geq		L	
					-

-1-

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Thickness of		Total	
Strata	Formation	Depth	Remarks
0-30	Soil - clay	30	
19	- Shale /	49	
8	Lime	57	
M	Shale	60	
17	Lime	77	
S	Shale	85	
10	Lime	95	
3	Shale	98	
20	Lime	118	
39	Shale	157	
19	Lime	176	
78	Shale	254	
23	Lime	277	
25	Shale	302	
5	Lime	307	
23	Shel-e	330	
1	Lime	331	
19	Shale	350	
1	Lime	351	
16	Shale	367	
23	Lime	390	
9	Shale	399	
22	Lime	421	7
4	Shale	425	
5	Lime	430	
4	Shale	434	
5	Lime	439	Hertha

-2-

-3-

		439	
Thickness of Strata	Formation	Total Depth	Remarks
723	Shale	562	
4	Sand	566	- no Oil
10	Sanel	574	broken-good bleed
49	Shale	625	
_ 7	Lime	632	
7	shale	639	
7	Lime	646	•
3	Shale	649	-
7	Lime	656	
	Shale	669	
_6	Lime	675	
7	Shale	682	·
13	Lime	695	
24	Shall	7/9	
	Sandy Shalt	728	no Oil
<u> </u>	Sing	734	broken - ok oil show
	Sand	141	mostly solid - OK all shall
best 13	sandy fille	772	<u>no 011</u>
oil	sand	122	Solid- Gest saturation &
3	sand	164	golid-poor saturation
73	Sind	840	Black- no Gil
_/>	Shale	870	<u>d</u> <u>r</u>
		· · · ·	
š			
·			
			·
	-4-		-5-



	100.00		nstructio		County- FR KS		Ticket:	EP2128			
	101	Louisburg, KS				FR, KS	Date:	6/25/2021			
Field Rop: Lance Town					S-T-R:	32-15-21	Service:	longstrings			
Down	nole Inf	ormatic	In		Calculated Slurry	Lead	Calcu	lated Slurry - Tail			
Hole	Sizer	5 5/8	in		Blend:	50/50/2	Blend:				
Hole De	A PALINE	820	ft		Weight: 1	4.25 ppg	Weight:	ppg			
Casing Size: 2 7/8 in			the second s	5.63 gal / sx	Water / Sx:	gal / sx					
ubing / Liner:		803	803 ft		the second second second second	1.24 ft ³ / sx	Yield: Annular Bbis / Ft.:	ft² / sx bbs / ft.			
		ft in			Annular Bbls / Ft.:	bbs / ft.					
Dopth: ool / Packer: b:		bafi			Depth:	ñ	Depth:	ft			
Tool Depth: 772 1				Annular Volume: Excess:	0.0 bbls	Annular Volume:	0 bbis				
splacem	ient:	4.47			Total Slurry:	bbis	Excess: Total Slurry:	0.0 bbis			
	4.2.4	36.1	STAGE	TOTAL	Total Sacks:	0 sx	Total Sacks:	0 sx			
ME R	ATE	PSI	BBLs	BBLs	REMARKS	The same light of the same		Long Part of the sale			
:00 PM			· .	¥	on location, held safety meet	ing					
	_										
	.0				W-19 - established circulation	n					
	.0			•		tonite Gel followed by 4 bbis fre					
	.0		-	·····		0/50/2 Pozmix cement, cement t	o surface				
	.0				flushed pump clean						
	.0				pressured to 800 PSI	baffle with 4.47 bbls fresh wate	er				
					well held pressure, released	pressure to set float valve					
4	.0				washed up equipment						
	_										
	_										
	.0				21-A - established circulation						
	.0				mixed and pumped 200# Bentonite Gel followed by 4 bbls fresh water mixed and pumped 104 sks 50/50/2 Pozmix cement, cement to surface						
	.0				flushed pumped 104 sks 5	uisui2 Pozmix cement, cement (o surface				
	.0					baffle with 4.66 bbls fresh wate	ar	- (A.F.)			
1.0					pumped 2 7/8" rubber plug to baffle with 4.66 bbls fresh water pressured to 800 PSI						
					well held pressure, released	pressure to set float valve					
4.	.0				washed up equipment						
					· · · · · ·						
1000	N.S.	CREW	HE SIG		ALM 17						
Ceme	nter		y Kennedy		UNIT		SUMMARY				
imp Oper	1000		y Kennedy att Scott	/	239	Average Rate	Average Pressure	Total Fluid			
	and and a second se	Jailt			433	3.1 bpm	- psi	 bbls 			