KOLAR Document ID: 1582458

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

WELL	HISTORY	- DESCRIPTION	OF WELL	& I FASE
	III JIONI	- DESCRIF HOR		a LLASL

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.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 □ 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	QuarterSecTwpS. 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:				

KOLAR Document ID: 1582458

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 Top Bottom	Туре	e of Cement	# Sacks Use	d		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:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	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 W-19
Doc ID	1582458

Casing

		Size Casing Set	U U	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	100	50/50 POZ

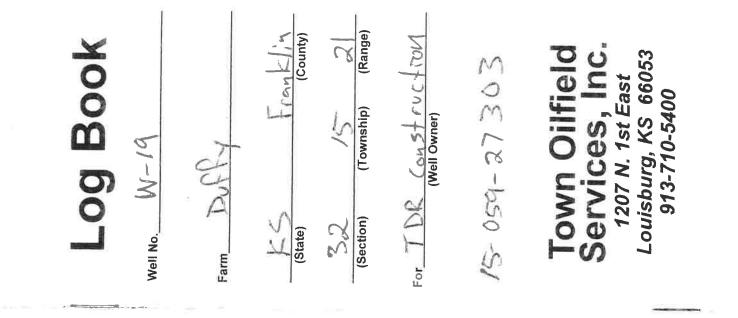
Franklin County, KSTDR Construction, Inc.Commenced Spudding:6/23/21Well:Duffy W 19(913) 710-5400Lease Owner:TDR Construction Inc.

WELL LOG

Thickness of Strata	Formation	Total Depth
0-33	Soil - Clay	33
20	Shale	53
8	Lime	61
2	Shale	63
16	Lime	79
8	Shale	87
11	Lime	98
3	Shale	101
20	Lime	121
25	Shale	146
2	Lime	148
6	Shale	154
2	Lime	156
3	Shale	159
19	Lime	178
78	Shale	256
24	Lime	280
23	Shale	303
7	Lime	310
23	Shale	333
2	Lime	335
19	Shale	354
1	Lime	355
16	Shale	371
8	Lime	379
2	Shale	381
13	Lime	394
8	Shale	402
22	Lime	424
4	Shale	428
4	lime	432
5	shale	437
6	lime	443
121	Shale	564
4	Sand	568
12	Sand	580
46	Shale	626
7	Lime	633
6	Shale	639
9	Lime	648

Franklin County, KS	TDR	Construction,	Inc.	Comm
Well:Duffy W 19		(913) 710-5400		
Lease Owner:TDR Construction	Inc.			

23	Shale	671
5	Lime	676
6	Shale	682
12	Lime	694
32	Shale	726
3	Sand	729
10	Sand	739
6	Sand	745
75	Sandy Shale	820
	-	



CASING AND TUBING MEASUREMENTS	
MMC Farm: Farm: Farmilian County KS State: Weil INO. W-FA County Elevation 70/7 Elevation County Finished Drilling E-23 20 20 Priller's Name Welco 20 20 Driller's Name Welco 20 20 Drol Dresser's Name TOL 20 20 Dol Dresser's Name TOL 20 20 Contractor's Name TOL 20 20 Section (Township) (Range) 6 Section (Township) (Range) 20 Section (Township) (Range) 20 Section (Township) (Range) 20 Section (Township) (Section	4" Set 4" Pulled 2" Set 2" Pulled

2

ž.

Remarks																										
Total Depth	32	53	61	63	79	52	98	101	121	14Co	148	154	156	15cl	178	256	380	303	3/0	333	335	354 S	355	37/	379	381
Formation	50,1-clay	Shalel	Lime	Shale	Lime	Shale	Lime	Shale	Lime	Shale	Lime	Shelp	L	Shale	Lime	Shale	Lime	Shale	Lime	Shale	Lime	Shall	Lime	Shall	Lime	Shale
Thickness of Strata	0-33	20	8	3	110	R	11	Μ	20	25	C	0	3	М	/9	78	24	23	7	23	3	19	/	16	≫	2

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	Remarks						ethra	ha	01 568	OLTH - LAND LI										01	rol- acod Oil Should	Eru- Jood Mil Shall				-5-
354 Total	Depth U/A	1011	424	428	432	437	T	12 AK	201		3	633	639	648	671	676	682	694	7260	729 40		745 6ra	520 TI			
Formation		_	21MY	Shale	Lime	Shale		Shal e	Sand	Sand	Shale	Lime	Shale	Line	Shale	Line	Shale	Line	Shal t	Squal	Sand	Sand.	Smely Shall			-4-
nickness of	Strata	300	20	7	4	6	e	121	Ц	12	46	7	6	5.3	23	5	Ŀ	12	32	ŝ	2	9	75			

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(4)



City, St	-		nstructio		Well: County:	Duffy W-19, 21-A	EP2128	
	161	ance To				FR, KS	Date:	6/25/2021
FIELD	adba La	ance I	own		S-T-R:	32-15-21	Service:	longstrings
Downh	nole Inf	ormatio	n		Calculated Slurry	Lead	Calcu	lated Slurry - Tail
Hale S	Sizo:	5 5/8	in		Blend:	50/50/2	Blend:	
Hole De	NITE OF	820	ft		Weight: 1	4.25 ppg	Weight:	ppg
Casing S	1.25	2 7/8			the second s	5.63 gal / sx	Water / Sx:	gal / sx
sing De	-	803			the second second second second	1.24 ft ³ / sx	Yield:	ft² / sx
bing / Li Do	pth:		in ft		Annular Bbls / Ft.:	bbs / ft.	Annular Bbis / Ft.:	bbs / ft.
ool / Pac	-	baff			Depth:	ft	Depth:	ft
Tool De	1030	baffle 772 ft			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	86.4	STAGE	TOTAL	Total Sacks:	0 sx	Total Sacks:	0 sx
ME R	ATE	PSI	BBLs	BBLs	REMARKS	And the second second		Long Part of the State
:00 PM					on location, held safety meet	ing		
	_							
4.					W-19 - established circulation	n		
4,				•		tonite Gel followed by 4 bbls fre		
4.				·····		0/50/2 Pozmix cement, cement t	o surface	
4.				•	flushed pump clean			
1.					pressured to 800 PSI	baffle with 4.47 bbls fresh wate	ir .	
					well held pressure, released	pressure to set float valve		
4.	.0				washed up equipment			
	_							
4.					21-A - established circulation			
4.						tonite Gel followed by 4 bbls fre	and the second	
4.	.0 0				flushed pumped 104 sks 5	0/50/2 Pozmix cement, cement t	o surface	
1.						baffle with 4.66 bbls fresh wate		- (A.F.)
	0				pressured to 800 PSI	Boo incari wate		
					well held pressure, released	pressure to set float valve		
4.	.0				washed up equipment			
_								
					· · · · · ·			
253	2.21	CREW	NIS SI		ALM 17			
Ceme	nter	-	y Kennedy		UNIT		SUMMARY	
imp Opera	1000		ett Scott		239	Average Rate	Average Pressure	Total Fluid
	100	Jaint			433	3.1 bpm	- psi	 bbls