KOLAR Document ID: 1466823

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:	
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	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane) 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
•	If Alternate II completion, cement circulated from:
Operator:	•
Well Name:	feet depth to: 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 Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec. Twp. S. 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:							

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Page Two

Operator Name: _				Lease Name:			Well #:			
Sec Twp.	S. R.	Ea	ast West	County:						
	flowing and shu	ıt-in pressures, w	hether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,		
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	. Digital electronic log		
Drill Stem Tests Ta			Yes No		_	on (Top), Depth ar		Sample		
Samples Sent to G	Geological Surv	ey	Yes No	Na	me		Тор	Datum		
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No							
		R			New Used	on, etc.				
Purpose of Strir		Hole	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives		
			ADDITIONAL	CEMENTING / S	QUEEZE RECORD	I				
Purpose:		epth Ty	pe of Cement	# Sacks Used	sed Type and Percent Additives					
Protect Casi										
Plug Off Zon										
 Did you perform a Does the volume o Was the hydraulic 	of the total base f	luid of the hydraulic	fracturing treatment	_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three (,		
Date of first Producti Injection:	ion/Injection or Re	esumed Production	/ Producing Meth	nod:	Gas Lift 0	Other (Explain)				
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity		
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			N INTERVAL: Bottom		
	_	on Lease	Open Hole			mmingled mit ACO-4)	Тор	Bottom		
,	, Submit ACO-18.)				· · · · · · · · · · · · · · · · · · ·					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record		
TUBING RECORD:	Size:	Set /	At:	Packer At:						
. 5213 (1200) 10.	JIEG.			. 30.0.71						

Form	ACO1 - Well Completion						
Operator	Mull Drilling Company, Inc.						
Well Name	WHIRLWIND 1-21						
Doc ID	1466823						

All Electric Logs Run

CDL/CNL/PE	
DIL	
MEL	
SONIC	

Form	ACO1 - Well Completion						
Operator	Mull Drilling Company, Inc.						
Well Name	WHIRLWIND 1-21						
Doc ID	1466823						

Tops

Name	Тор	Datum
Anhydrite	2652	+ 1190
B/Anhydrite	2678	+ 1164
Heebner	4094	- 252
Lansing	4114	- 272
Stark	4445	- 603
Ft. Scott	4719	- 877
Cherokee	4732	- 890
Morrow	5022	- 1180
Mississippian	5112	- 1270

Form	ACO1 - Well Completion						
Operator	Mull Drilling Company, Inc.						
Well Name	WHIRLWIND 1-21						
Doc ID	1466823						

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Type and Percent Additives
Surface	12.250	8.625	24	427	Common	3% cc, 2% gel



CEMEN				ORT								
Cus	tomer	Muli Dri	illing		Well:	W	Whirlwind 1-21				lickets ICT1892	
· City,	State:	Tribune	,KS		County:	(reele	y,KS		Date:	4	/3/2019
Fiel	id Rep:	L			S-T-R:	2	1-175	-42W		Service:	Surface	
Dov	mbolo	Informati										
	e Size:		12.25"							ment Blend		
	Depth:		427		Weight: Water / Sx:	6 5/7 g			Product Class A		%	#
	g Size:		8.625		Yield:	1 2/5 ft			Gel	2.0		23500 470
Casing	Depth:		427		Bbis / Ft.:				CaCI		3.0	705
Tubing	Liner:		in		Depth:	427' ft			Metso			
	Depth:		ft		Volume:	bi	ols		KolSea	ıl		
Too! / P					Excess:	100% %			Pheno	Seal		
	Depth:		ft		Total Slurry:	62.7 b	ols		Salt			
.Displace	ement:		26		Total Sacks:	250s			10. 10.			
TIME	RATE	PSI	BBLs		REMARKS	TIME					Total	24,675
8:30pm	l l		DBLS		arrivial	TIWE	RATE	PSI	BBLs		REMARK	(5
8;35pm				sat	fety meeting							
8;40pm					rig up				-			
1;45am				ru	n in casing							
3;am					irc casing				ļ <u> </u>			
3;40am	5.0	200.0	88.7	ceme	ent & displace							
4am					shut in							
				cen	nent did circ							
4;15am	\vdash		-	wash up a	and rig down equip							
4;45am	 				depart					ļ		
			-									
	\vdash						\neg					
	\Box						_					
			<u> </u>									
			\vdash									
	\vdash											
							-				·	
							-					
		CREW			UNIT					SUMMARY		
	onter:		Miles Sha				Average	Rate	Averag	je Pressure	Total Fi	uld
	Ptump Operator: Paul Williams			231.0		5 t	opm	200.00	osi	88,70	bbls	
	alk #1: alk #2:		Kale Och	s	242.0							
				1								

