KOLAR Document ID: 1467675

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.xxxxxx) (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						
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No						
Cathodic Other (Core, Expl., etc.):							
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)						
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 #:	Location of haid disposal if hadica offsite.						
GSW Permit #:	Operator Name:						
	Lease Name: License #:						
Spud Date or Date Reached TD Completion Date or	QuarterSec TwpS. 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 III 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	Type and Percent Additives						
Protect Casi											
Plug Off Zon											
<ol> <li>Did you perform a</li> <li>Does the volume o</li> <li>Was the hydraulic</li> </ol>	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	Shots Per Perforation Perforation Bridge Plug Bridge Plug Acid, Fracture, Shot, Cementing Squeeze Record Foot Top Bottom Type Set At (Amount and Kind 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	WOODS 1-12				
Doc ID	1467675				

## All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion				
Operator	Mull Drilling Company, Inc.				
Well Name	WOODS 1-12				
Doc ID	1467675				

### 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	23	253	Common	3% cc, 2% gel

**KEVIN L. KESSLER** CONSULTING PETROLEUM GEOLOGIST (316) 522 - 7338 **ELEVATION OPERATOR:** MULL DRILLING CO. INC. LEASE: WOODS **KB**: 3337' **WELL #:** 1 - 12 **LOCATION:** 1871' FSL & 1982' FWL **GL**: 3328' **SEC**: 12 **TWP**: 16S **RGE**: 37W MEASURMENTS FROM: COUNTY: WICHITA **STATE: KANSAS** KB CONTRACTOR: DUKE DRILLING RIG # 4 CASING RECORD: SURFACE: COMM: 04 - 10 - 2019 COMP: 04 - 19 - 2019 8 5/8" @ 253' LTD: 4944' RTD: 4950' PRODUCTION: GEOLOGICAL SUPERVISION FROM: 3700' TO: RTD NONE SAMPLES SAVED FROM: 3700' TO: RTD SAMPLE DATUM TOP LOG DATUM COMP. FORMATION: **ELECTRICAL SURVEYS:** DIL 4006 - 669 HEEBNER - 669 - 15 4006 CNL/CDL - 722 4059 - 722 4059 LANSING - 23 **MICRO** STARK 4334 - 21 - 997 4334 - 997 SONIC BASE/KC 4428 - 1091 4428 - 25 - 1091 CHEROKEE 4654 - 1317 - 1317 4654 - 22 4901 MISSISSIPPI - 1564 4901 - 1564 - 06 REFERENCE WELL FOR STRUCTURAL COMPARISON: MULL DRLG #1-3 REDDING 03-16S-37W WICHITA CO. KS. 3700 -LST: CRM - GRAY FXTAL SUBCHKY -DNSE RARE FOSS MINOR SAND FEW LOOSE GRAINS W/ ABUNDANT RED SHALE NO VIS. POR. NSO LST: WHT - CRM - GRAY FXTAL MOST 3750 -MUD CHECK @ 3740' HARD BRITTLE FOSS. IN PART NFR AMOUNT GRAY SILTY AND RED SHALE NO VIS. POR. NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE SLI FOSS. SANDY IN PART FR AMOUNT GRAY GREEN SHALE CALC. IN PART NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO 3800 -LST: CRM - GRAY - TAN FXTAL CHKY -SUBCHKY - DNSE ARENACEOUS IN PART FOSS, FR. INTRPRT, POR, NSO LST: CRM - TAN - BRN FXTAL SOFT CHALKY FOSS. IN PART SLI AREN. NO VIS. POR. NSO LST: CRM - GRAY - TAN FXTAL SUBCHKY - DNSE AREN. IN PART MINOR OOLITES SLI FOSS, PR - FR INTRPRT, POR, NSO 3850 -MUD CHECK @ 384 WT:8 LST: CRM - TAN FXTAL SUBCHKY - DNSE FOSS. ON PART AREN. NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO SHALE: GRAY - DARK GRAY NSO 3900 SILTY SAND: FN GRN QTZ WELL SORTED VERY SILTY NO VIS. POR. NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE SANDY IN PART NO VIS. POR. NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE AREN. IN PART SLI FOSS FR AMT DRK GRAY SILTY SHALE NO VIS. POR. NSO 3950 -MUD CHECK @ 39 V//T SHALE: GRAY CALC. NSO LST: CRM - TAN FXTAL MOST DNSE FOSS IN PART NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO 4000 -HEEBNER 1006 (-669 SHALE: BLACK CARB. W/ MINOR - FR AMT DNSE MOTTLED LST. NO VIS. POR. SHALE: GRAY CALC. NSO LST: WHT - CRM FXTAL SUBCHKY -DNSE SLI FOSS CHERTY W/WHT - GRAY FRESH CHERT NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO 4050 SHALE: GRAY - GREEN SILTY NSO LANSING 4:059 (:-LST: WHT - CRM FXTAL SUBCHKY -DNSE FOSS IN PART NO VIS. POR. NSO SHALE: GRAY - GREEN NO VIS. POR. NSO 4100 -LST: CRM - WHITE FXTAL SUBCHKY -DNSE FOSS IN PART NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE FOSS IN PART NO VIS. POR. NSO LST: CRM -GRAY - WHT FXTAL DNSE BLOCKY FOSS, NO VIS. POR. NSO SHALE: BLACK CARB. NO VIS. POR. NSO 4150 -MLÉD CHECK @ 4: 50 <u> VIS</u> \**\**\/\T LST: CRM - GRAY FXTAL SOFT CHKY SLI FOSS, NSO LST: A. A. TRC. TAR STN POR. A. A. SHALE: GRAY NSO 4200 -LST: WHT - CRM - GRAY FXTAL MOST DNSE FEW OOLITES SLIFOSS, NO VIS. POR. NSO LST: WHT - CRM - GRAY FXTAL DNSE BLOCKY NO VIS. POR. NSO LST: CRM - GRAY FXTAL MOST DNSE OOLITIC IN PART FR INTRPRT. POR. NSO SHALE: BLACK CARB. W/ FR AMT DNSE MOTTLED LST. NO VIS. POR. NSO 4250 MUD CHECK @ 4250 LST: CRM - GRAY FXTAL SUBCHKY -DNSE FOSS. IN PART NO VIS. POR. NSO LST: CRM - TAN FXTAL MOST DNSE BRITTLE FOSS IN PART OOLITIC FR INTRPRT. POR. NSO LST: WHT - CRM - GRAY FXTAL MOST DNSE SLI FOSS. FR AMOUNT GRAY SILTY SHALE NO VIS. POR. NSO 4300 LST: CRM - GRAY FXTAL MOST DNSE HARD BRITTLE SLI FOSS. NO VIS. POR. NSO LST: CRM - GRAY FXTAL DNSE HARD BLOCKY SLI FOSS OOLITIC IN PART NO VIS. POR. NSO STARK 4334 (- 997) SHALE: BLACK CARB. W/ MINOR AMOUNT DISE GRAY LST. NO VIS. POR. SHALE: DRK GRAY NSO 4350 -CHECK # 4350' V//T LST: CRM - GRAY MOTTLED IN PART SUBCHKY - DNSE NO VIS. POR. NSO LST: A. A. SHALE: BLK CARB, NSO 4400 LST: CRM - GRAY FXTAL CHKY -SUBCHKY FOSS IN PART NO VIS. POR. NSO LST: CRM - GRAY FXTAL HARD BRITTLE VRY FOSS, FR INTRPRT, POR, NSO BASE! K 34328 ( LST: A. A. NO VIS. POR. NSO LST: CRM - TAN FXTAL DNSE HARD BRITTLE MINOR OOLITES VERY TIGHT NO VIS. POR. NSO 4450 -LST: CRM - GRAY VERY SOFT MARL LIKE MUD CHECK @ 44 CHKY SILTY NO VIS. POR. NSO V//T SHALE: GRAY SILTY ARGILACEOUS IN PART NO VIS. POR. NSO LST: WHT - CRM FXTAL HARD BRITTLE DNSE NSO -LST: CRM - WHT FXTAL MOST DNSE 4500 FOSS MINOR OOLITES NO VIS. POR. NSO LST: CRM - TAN FXTAL SUBCHKY - DNSE SLI FOSS NO VIS. POR. NSO LST: CRM - GRAY FXTAL SUBCHKY -DNSE VRY OOLITIC & FOSS. NSO LST: CRM - GRAY FXTAL DNSE HARD BLOCKY RARE FOSS, NO VIS. POR. NSO 4550 MUD CHECK @ 4550' М 4 LST: A. A. NO VIS. POR. NSO SHALE: BLK CARB., NO VIS. POR. NSO LST: CRM - GRAY FXTAL MOST DNSE HARD BLOCKY MINOR OOLITES NSO 4600 -SHALE: BLACK CARB. NO VIS. POR. NSO LST: GRAY FXTAL SUBCHKY - DNSE MICRITIC IN PART NO VIS. POR. NSO SHALE: BLACK CARB. NO VIS. POR. NSO LST: CRM - GRAY - TAN - BRN FXTAL DNSE HARD BLOCKY OOLITIC IN PART NO VIS. POR. NSO 4650 CHERONEE 4654 ( 317 SHALE: BLACK CARB, NO VIS. POR. NSO LST: GRAY FXTAL SUBCHKY - MOSTLY DNSE RARE FOSS. ABUNDANT DRKGRAY - BLACK CARB. SHALE NO VIS. POR. NSO LST: CRM - GRAY FXTAL DNSE HARD RARE FOSS. FR AMT GRAY - DRK GRAY SILTY SHALE NO VIS. POR. NSO SHALE: GRAY CALC. NO VIS. POR. NSO 4700 LST: CRM - GRAY FXTAL SUBCHKY -DNSE SLI FOSS NO VIS. POR. NSO LST: CRM - GRAY FXTAL MOST DNSE SI FOSS. NO VIS. POR. NSO SHALE: BLK CARB. NSO 4750 MLID CHECK @ 4750' М LST: CRM - GRAY FXTAL DNSE HARD RARE FOSS. NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO LST: A. A. W/ FR AMT DRK GRAY SHALE NO VIS. POR. NSO 4800 -SHALE: GRAY - DRK GRAY - BRN SILTY IN PART ARGILACEOUS NO VIS. POR. NSO SAND: FN GRAINED SUBROUNDED QTZ. CLUSTERS MOST TIGHT HARD NSFO NO ODOR NO FLUOR, NSO SHALE: GRAY - DRK GRAY SILTY NO VIS. POR. NSO CHECK @ 4850' MUD М 4850 -SHALE: A. A. SILTY SANDY IN PART NO VIS. POR. NSO SHALE: A.A. NO VIS. POR. NSO SAND: FN GRAINED QTZ SUBANGULAR -WELL ROUNDED TIGHT CLUSTERS PR INTRGRAN, POR, NSO NO ODOR NO FLUOR. SHALE: GRAY NSO SAND: TIGHT CLUSTERES FINE GRAINED NSO NO ODOR NO FLUOR. MISSIS <del>PPI 4901 î</del> 1564 4900 LST: WHT - CRM FXTAL SUBCHKY -MOSTLY DNSE SANDY IN PART SLI FOSS. NO VIS. POR. NSO LST: WHT - CRM FXTAL MOST DNSE SANDY IN PART NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO LST: A. A. NO VIS. POR. NSO 4950 COMMENTS: DUE TO LACK OF SHOWS OF OIL THIS WELL WAS PLUGGED AND ABANDONED KEVIN L. KESSLER



CEMENT TREATMENT REPORT												
Customer: Mull Drilling Well:				Well:	Woods 1-12				Ticket: ICT1919			
City, State: Wichita Ks County:					ountý:	Wichita				Date: 4/10/2019		
Field Rep: Hector S-T-R: 12-					12-16S							
Downhole Information Sturr									ment Blend			
	e Size:		12 1/4		/eight:	14.8 #/sx				roduct	%	. #
	Depth: g Size:		253 8 5/8	Wate	er / Sxt	6 7/8 gal / sx 1 1 2/5 ft <sup>3</sup> / sx			Class A Calcium Chloride		100.0	18800
Casing			253	1214)	Yield: s/Ft.:	1 2/5			Gel		3.0 2.0	564 376
Tubing /					Depth:		ft		Flo seal		0.3	50
	Depth:		ft		olume:		bbls					
Tool / P	acker			E	xcess:	175%	%				1	
	Depth:		ft	Total S	Sturry	50	bbls				i	· · · · · · · · · · · · · · · · · · ·
Displace	ement:		14.75	Total S	Sacks:	200	sx					
TIME	RATE	001	no	DCM DBW		T					Total	19,790
6:50 PM	RATE	PSI	BBLs	REMARKS	- 1	TIME	RATE	PSI	BBLs		REMARK	(S
6:55 PM	<del>                                     </del>			Arrive Safety meeting			1		-			
7:00 PM	1	i		Rig up					<u> </u>			
7:10 PM				Rig runs casing	$\overline{}$							
8:00 PM				Casing on bottom/ Circula	te							
8:10 PM	4.5	300.0	50.0	Mix 200 sks @ 1.41 yelld								
8:40 PM	4.0	300.0	14.8	Displace								
8:50 PM		200.0		End displacement/ shut in v	well							
8:55 PM				Wash up	<del></del>							
9:00 PM	1			Rig down								
9: 15 PM				Depart  Aprrox. 10 bbls to pit	<del></del>					<u> </u>		
	1			Apriox. To obis to pit	+				1			
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			· 1									
		CREW		UNIT						SUMMAR	Y	
Gementers Travis Williams 74.0							Averag			e Pressure	Total F	
Pump Operator: Michael Rebarchek				231.0		4.25	bpm	266,67	psi	64.75	bbis	
	ulk #1: ulk #2:		Alan Rya	in 180-250								