KOLAR Document ID: 1663211

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
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)  Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
□ Oil □ WSW □ SWD	Producing Formation:
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 #:	
EOR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
GOVV Territt #.	Lease Name: License #:
Canad Date on Date Decembed TD Completing Date on	Quarter Sec TwpS. R
Spud Date or Date Reached TD Completion Date or 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.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether 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	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	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					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used	ed Type and Percent Additives			
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a     Does the volume     Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	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:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
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	Δ+-	Packer At:				
TODING RECORD:	. 3126.		n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	KASTRUP A 8
Doc ID	1663211

## All Electric Logs Run

DIL	
DUCP	
MEL	
BHCS	

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	KASTRUP A 8
Doc ID	1663211

### Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugTyp e	BridgePlugSet At	Material Record
4	2906	2909			500g 15% MCA
4	2932	2936			500g 15% MCA
4	2968	2972			
4	2974	2977			
4	2984	2988			
4	3074	3080			
4	3160	3166			350g 15% MCA, 350g 15% Hydrofluoric Acid, 7.5% Hydrofluoric Acid
					350g 15% Hydrofluoric Acid, 200g 7.5% Hydrochloric

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	KASTRUP A 8
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### 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	772	Common, H325	330	
Production	7.875	5.500	15.5	3246	H-Con, H- LD	450	



CEMENT	URE	ATMEN	T REP	ORT					
Custor	meri	Murfin E	rilling	Co	Well:		Kastrup A #8	Tickets	WP 2939
City, St	ate				County:		Russell, KS	Date:	6/15/2022
Field F	Rep:	Spencer	Savag	е	S-T-R:		15-15S-12W	Service:	Surface
Downh	ole l	nformatic	m		Calculated S	lurry - Lead		Galo	ulated Slurry - Tall
Hole S	lize:	12.25	in		Blend:	H-Con		Blend:	Н-325
Hole De	pthi	775	ft		Welght:	12.0 ppg		Weight:	14.8 ppg
Casing S	ize:	8 5/8	In		Water/Sx:	15.5 gal	/ sx	Water / \$x;	6.9 gal / sx
Casing De	pthi	772	ft		Yield:	2.56 ft <sup>3</sup> /	sx	Yield:	1.41 ft³/sx
Tubing/Li	nera		in		Annular Bbls / Ft.:	0.0735 bbs	/ ft.	Annular Bbis / Ft.:	0.0735 bbs / ft.
De	pth		ft		Depth:	ft		Depth:	ft
Tool / Pac	ken				Annular Volume:	0.0 bbl:	5	Annular Volume:	0 bbis
Tool De	pille		ft		Excess:	100%		Excess:	100%
Displacem	ent	48.0	bbis		Total Slurry:	70.7 bbl:	,	Total Slurry:	44.0 bbls
			STAGE	TOTAL	Total Sacks:	155 sx		Total Sacks:	175 sx
TIME R	ATC	PSI	BBLs	BBLs	REMARKS				Part of the Control o
1015am					Arrive on Location				
1020am				-	Safety Meeting				
1035am				-	Rig Up				
				-	765' of casing plus 7' la	anding joint			V-11-11-11-11-11-11-11-11-11-11-11-11-11
1048am 2.	7	50.0	5.0	5.0	Start H2O ahead				
1050am 8.8	.8	200.0	70,6	75.6	Start Pumping Lead Sit	urry 12ppg			,
1059am 8.0	0	200,0	10.0	85.6	Start Tall Cement Slurr	y 14.8ppg			
1100am 6.1	.7	150.0	44.0	129.6					and the second s
1115am				129.6	shut down and drop pl	ug			
1117am 6.	.5	210.0	1.0	130.6	start displacement				
1124am 6.4	4	300.0	46.0	176.6					
1125am 3.0	.0	400.0	48.0		shut down				
1127am					Close in Cement Head	and bleed line pr	essure off Circula	ited 5bbls of cement to pit	
1129am					Wash up				
1140am					rig down				
1155am					Leave Location		× ************************************		
							······		MANUAL COMPANY OF THE STATE OF
	$\dashv$					······································			
						······································			
	$\dashv$								
	-								
		CREW		(1) U	UNIT			SUMMAR	Y
Cemer	nter:	Spend	er		26		Average Rate	Average Pressure	Total Fluid
Pump Opera	ator:	Chris	tian		520		6.0 bpm	216 psi	225 bbls
Bulk		Charl	ie		530				
Bulk	3#21								



CEMENT	TTRE	ATMEN	T REP	ORT					
Cus	tomer:	Murfin E	rilling		Well:	Kas	tup A #8	Ticket:	WP 2960
City.	State:	Oakley I	(S		County:	Ru	ssell KS	Date:	6/19/2022
	d Rep:				S-T-R:		15S-12W	Service:	Long String
		man							2-0.5
Dow	nhole	nformatio	m		Calculated S	lurry - Lead		Calc	ulated Slurry - Tall
Hole	e Size:	7.875	ln		Blend:	H-Con		Blend:	H-LD
Hole I		3250	ft		Weight:	12.0 ppg		Weights	14.8 ppg
Casing	g Size:	5 1/2	in		Water / Sx:	15.5 gal / sx	_	Water / Sx:	6.6 gal/sx
Casing I	Depth:	3246	ft		Yield:	2.56 ft <sup>3</sup> / sx	_	Yielda	1.52 ft <sup>3</sup> / sx
Tubing /	Liner:		in		Annular Bbls / Ft.:	0.0309 bbs / ft.	_	Annular Bbls / Ft.:	0.0309 bbs/ft.
	Depth:		ft		Depth:	ft	_	Depth:	ft
Tool / Pa	acker:				Annular Volume:	0.0 bbls	_	Annular Volume:	0 bbls
	Depth:		ft		Excessi		_	Excess	
Displace	ment:	76.7	100000000000000000000000000000000000000		Total Slurry:	159.5 bbls	_	Total Slurry:	40.6 bbls
1.0			STAGE	TOTAL	Total Sacks:	350 sx		Total Sacks:	150 sx
TIME	RATE	PSI	BBLS		REMARKS				
7:43 PM	ļ			-	Arrived on location			······································	
7:53 PM	<del> </del>			-	Safety meeting		····		
8:03 PM	1			-	Rigged up				
1:40 AM				-	Casing on bottom				
2:14 AM	1				Ciculated mud	·		W	
3:33 AM		250.0	5.0	5.0	Water ahead				
3:35 AM	<u> </u>	250.0	12.0	17.0	Pumped 500 gallons su	per mud flush		**************************************	
3:40 AM		250.0	10.0	27.0	Water behind				
3:46 AM		150.0	13.6	40.6	Mixed 30 sacks H-Con o				
3:52 AM		150.0	9.1	49.7	Mixed 20 sacks H-Con o			ng	
3:58 AM		250.0	136.7	186.4	Mixed 300 sacks H-Con		<del></del>		<u> </u>
4:52 AM	5.2	250.0	40.6		Mixed 150 sacks H-LD t				
5:04 AM					Shut down, load plug, o		<u> </u>		
5:12 AM	5.9	250.0	76.7		Begin displacement wit		al with dE bbla	cement circulated to pit	
5:28 AM		1,400.0			Wash up and rigged do		SI WILL TO DELS	centent circulated to pit	
5:30 AM					Left location	WII			
6:08 AM					Left (Ocation				
							J-411		
			<del></del>		**************************************				
							·····		
									West Control of the C
		CREW			UNIT			SUMMARY	1
		John			64	Δνα	rage Rate	Average Pressure	Total Fluid
	nenter:	John	······································		208		.2 bpm	356 psi	304 bbls
Pump Op	erator. ulk #1:	Kale	<u> </u>		194-250	<u> </u>		1 1	
	uik #1: uik #2:	Charl	le		205				

### DRILLING REPORT - LOG TOPS - KASTRUP A 8

### MDCI Kastrup A #8 2310'FNL 1520'FWL Sec. 15-T15S-R12W

1775' KB

Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	668	+1107	-4	668	+1107	-4
B/Anhydrite	699	+1076	-6	699	+1076	-6
Topeka	2534	-759	-1	2528	-753	+5
Oread	2729	-954	+3	2726	-951	+6
Lansing	2895	-1120	+5	2890	-1115	+10
Stark	3102	-1327	+8	3099	-1324	+11
Mound City	3160	-1385	+6	3155	-1380	+11
Basement	3162	-1387	+20	3160	-1385	+22
RTD	3250					
LTD				3245		

**WELL INFORMATION** 

Company: MURFIN DRILLING COMPANY, INC.

Address: 250 N. WATER ST., STE 300

WICHITA, KS 67202

Well Name: KASTRUP A #8

Location: 2310 FNL 1520 FWL

SECTION 15 - T15S - R12W RUSSELL COUNTY, KANSAS

API: 15-167-24122-00-00

Field: INFILL FIELD DEVELOPMENT

K. B. Elevation: 1775 Rotary Depth: 3250 Ground Elevation: 1770 Log Depth: 3245

Spud Date: 6/14/2022 Drilling Completed: 6/19/2022

Completion:

Surface Casing: 8 5/8's set @ 775' Production Casing: 5 1/2" set @ 3243'

Formation at TD: PRECAMBRIAN Drilling Fluid Type: CHEMICAL

Rig Contractor: MURFIN RIG # 16

Logger: MIDWEST WIRELINE Logs Run: DI, CND, SONIC & MICRO

Wellsite Geologist: LARRY P. FRIEND

#### **FORMATION DEPTHS**

COMPARED TO: CITIES SERVICE OIL CO. KASTRUP A #7

NW SE NW, 15-T15S-R12W

FORMATION DEPTHS:SAMPLE LOG

669 (+1106 **ANHYDRITE** 668 (+1107) -5 **B/ANHYDRITE** 699 (+1076 696 (+1079) -3 TOPEKA 2534 (-759) 2528 (-753) +5 OREAD 2729 (-954) 2726 (-951) +6 LANSING 2895 (-1120) 2890 (-1115) +10 STARK 3102 (-1327) 3099 (-1324) +11MOUND CITY (BKC) 3160 (-1385) 3155 (-1380) +11**BASEMENT** 3165 (-1390) CORR 3160 (-1385) +22

#### **NOTES**

DUE TO A FAVORABLE STRUCTURAL POSITION, SHOWS OF OIL & GAS AND POSITIVE LOG CALCULATIONS, IT WAS DECIDED TO RUN PRODUCTION CASING AND ATTEMPT PRODUCTION ON THIS WELL.

LP FRIEND

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