KOLAR Document ID: 1656029

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
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:, (e.axxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD ☐ Gas ☐ DH ☐ EOR	Producing Formation: Kelly Bushing:
☐ OG ☐ GSW	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 □ Plug Back □ Liner □ Conv. to GSW □ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commission Powert #1	Chloride content:ppm Fluid volume: bbls
☐ Commingled Permit #: ☐ 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	QuarterSecTwpS. R East West
Recompletion Date Recompletion Date	Countv: 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: 1656029

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		Type and F	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
DISPOSITION OF GAS: METHOD OF C				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.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	UHLAENDER OWWO 1-29
Doc ID	1656029

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight		Type Of Cement		Type and Percent Additives
Surface	12.250	8.620	34	347	Common	285	
Production	7.875	5.500	15.5	4849	HLD, H- con	500	

DRILLING REPORT - LOG TOPS - UHLAENDER 1-29

MDCI Uhlaender #1-29 2310' FNL 1650'FEL Sec. 29-2S-35W 3226' KB

Formation	Log tops	Datum
Anhydrite	3052	+174
B/Anhydrite	3098	+128
Topeka	3936	-710
Oread	4041	-815
Lansing	4136	-910
Stark	4356	-1130
Mound City	4405	-1179
Ft Scott	4533	-1307
Oakley	4605	-1379
Mississippi	4792	-1566
RTD	4890	
LTD	4890	



HURRICANE SERVICES INC

Customen	Murlin Drillin	g Co. Inc.	7.		D-4-	8/21/2017			1	~
Fleid Repa	Arturo		~		Date	0/2/1/201/		Ticket No.	100	0788
Address	 			***************************************	-					
City, States	 			•••	-					
County, Zipi	 				-{					
2021101120	<u> </u>				<u> </u>					
Fi	ield Order No.I	100	788	1	Open Holes		7			
	Wall Name:	Uhlasnd	er # 1-29	1	Casing Depths		-	Perf De	pthe (H)	Perta
	Locations	Bear	dsley	1	Casing Size		-			ļ
	Formation			1	Tubing Depths		1			
Ту	pe of Bervices	8ur	ace	1	Tubing Size:		4			
	Well Type	C	ii .	1	Liner Depth		1			
	Age of Well:	Ne	w		Liner Size:		1			
	Packer Type:				Liner Tops		7			<u> </u>
1	Packer Depth:]	Liner Bottom		1			
Υ	restment Viai	Cas	lng	}	Total Depths	347	1 .			
								•	Total Perfs	0
	MJECTIO	N RATE	PRES	SURE	Ratification as	Santana da S		PROP	ESSENCE OF SERVICE	
TIME	FLUID	NS/COS	STP	ANNULUS		REMARKS		(ibs)	HCL (gls)	FLUID (bbls)
5:00 PM					Called Out					
8:45 PM			~ ~~~		On Location W/	Trucks Hold Safety Meeting				
	-				Spot & Bat Up T		·	_		_
					TD=347' TP= 346'					
9:45 PM					Run 8 Jt's 8 5/8 23 Lb Cont Half Way # 1 Jt & Jt # 4					
11:05 PM			***************************************		Start Casing					
11:15 PM			·		Casing on botto			-		
11:30 PM	4.0		200.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Hook Up To Casing Break Circulation With Rig					
11.00 (17)	4.0		150.0		Start Pumping H20				10.00	
	4.0		178,0		Start Mix & Pump 285 Sacks Common 2% Gel 3% CC		 		69,00	
12:00 AM		~	200.0		Start Displacement K2o Shut Down Circulate 16 Sacks To Pit		 		20.80	
					Close Vavie on Casing		1			
					Wash Up Truck			 		
12:30 AM					Off Location		<u> </u>			
					Thank You					
						Piesse Call Again				
					<u> </u>	Tony Cody Sheldon				
							TOTAL:			99.80
		SUMM	ARY			PRODUCTS USED				
-		Avg Fl. Rate	Max PSI	Avg PSI		THOUSED TO COLD				
Į	4.0	4.0	200.0	181.3					[
									l	
						285 Sacks Common 2% G	iel 3% Calcium	n Chiorida	ļ	
						7777777777	VIV OBIGUII	1 OTHORNO		
		•								
Treater:	Tony	۲						Customer:	Arturo	
•								-		



CEMEN'	U TR	EATMEN	II RE	ORT					
Cus	tomer	Murfin I	Orilling	co	Well:	Uhlaender 1-2	29 # OWWO	Ticket:	WP-2662
City,	State	Oakley	KS		County:	Rawlins KS Date:			4/11/2022
Fie	d Rep	Nate			S-T-R:	29-2S-		Service:	
									20/3009
Dow	nhole	Informati	on,		Calculated S	lurry - Lead		Cali	culated Slurry - Tail
Hol	e Size	7 7/8	in		Blend:	H-Con	10.00	Blend:	H-LD
Hole	Depth	4890	ft		Weight:	12.0 ppg		Weight	14.8 ppg
Casin	g Size	5 1/2	in		Water / Sx:	15.5 gal / sx	46	Water / Sx:	6.5 gal / sx
Casing	Depth	4849	ft		Yield:	2.56 ft ³ / sx		Yield:	1.51 ft³/sx
Tubing /	Liner		in		- Annular Bbis/Ft.:	0.0309 bbs / ft.	Ann	ular Bbis / Ft.:	0.0309 bbs/ft.
	Depth]	ft		Depth:	4849 ft		Depth:	4849 ft
Tool / P					Annular Volume:	149.8 bbls	Ātī	nular Volume:	149.8341 bbls
	Depth:		ft		Excess:			Excess:	
Displace	ement:	114.9			Total Slurry:	159.5 bbls		Total Slurry:	
TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	Total Sacks: REMARKS	350 sx	l visit	Total Sacks:	200 sx
8:15p	CONTRACTOR CONTRACTOR	L.C.L	11117		Arrival				
8:20p		 	<u> </u>	-	Safety meeting		***************************************		
8:45p	1				Run float equipment				
10:45p	1	200.0			Circulate hole for 30 mi	nutes at joint 64			
11:45p	1			•	Rig up pump and lines				
11:50p	·			-	Circulate hole for 1 hou				
12:50a	+	330.0	5.0	5,0	H2O ahead				
12:55a	1	290.0	12.0	17.0	Mixed 500 gallons of su	per flush			
1:00a		160.0	5.0	22.0	H2O behind	1			
1:06a	6.3	430.0	159.5	181.5	Mixed 300 sks of H-Con	@ 12 ppg @ 4887'			
1:12a	1	430.0	13.6	195.1	Mixed 30 sks of H-Con (
1:20a	6.3	430.0	9.1		Mixed 20 sks of H-Con (@ 12 ppg @ Mouse hole			
1:42a	6.0	450.0	53.7		Mixed 200 sks of H-LD (@ 14.8 ppg @ 4887'			
1:56a					Wash up pump and line	s			
2:00a					Drop plug				
2:04a	6.8	240.0	115.8		Displaced H2O	······································			
2:30a	3.8	2,100.0			Land plug @ 2100 PSI				
2:40a	ļ				Wash up pump and line	S			
2:50a					Rig down pump and line	es	· · · · · · · · · · · · · · · · · · ·	·····	
3:15a					Depart location			·····	
							· · · · · · · · · · · · · · · · · · ·	——————————————————————————————————————	
								·	······································
	ļ								
		CREW			UNIT			SUMMAR	
		Substitution and security of the security of t	New State of the S		disables state of the second second second	A110-0-0	Pate A	ge Pressure	Total Fluid
	nenter:	Jessi Chris			230	Average 5.6 b		06 psi	374 bbls
Pump Op	erator. luik #1:	Kale	udii		205	3.6 0	<u>үш] 3</u>	AA hai	074 0010
	ulk #2:	Charl	es		527-250				
THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OW	a angga gaga ek-para carp (de								

ftv: 15-2021/01/25 mplv: 260-2022/03/30



Murfin Drilling Co., Inc.

29/2s/35w Rawlins KS

250 N. Water STE 300 Wichita, KS 67202

ATTN: Michel Runnion

Job Ticket: 68592 DST#: 1

73

Uhlaender #1-29

Tester:

Test Start: 2022.04.11 @ 00:05:00

James Winder

3226.00 ft (KB)

3221.00 ft (CF)

GENERAL INFORMATION:

Formation: LKC "D"

Deviated: Test Type: Conventional Straddle (Initial) No Whipstock: ft (KB)

Time Tool Opened: 03:54:06 Time Test Ended: 10:52:35

Interval:

Unit No: 4208.00 ft (KB) To 4255.00 ft (KB) (TVD) Reference Elevations:

Total Depth: 4890.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair KB to GR/CF: Hole Diameter: 5.00 ft

Serial #: 6771 Inside

Press@RunDepth: Capacity: 233.41 psig @ 4209.00 ft (KB) 8000.00 psig

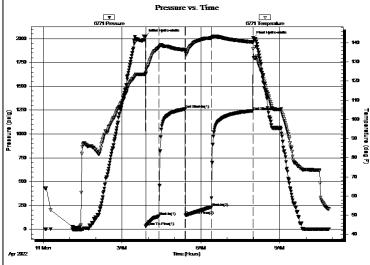
Start Date: 2022.04.11 End Date: Last Calib.: 2022.04.11 2022.04.11 Start Time: 00:05:01 End Time: 10:52:35 Time On Btm: 2022.04.11 @ 03:53:51 Time Off Btm: 2022.04.11 @ 07:59:06

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 24 min., built to 15"

60 - ISI: Blow back built to 2"

60 - FF: Blow built to BOB at 22 min., built to 25 1/2"

90 - FSI: Blow back built to 4"



	PRESSURE SUMMARY						
Ī	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	2026.83	124.10	Initial Hydro-static			
	1	29.98	123.84	Open To Flow (1)			
	31	135.96	137.63	Shut-ln(1)			
-	91	1262.62	136.37	End Shut-In(1)			
3	91	146.73	135.28	Open To Flow (2)			
Temperature (deg F)	151	233.41	142.53	Shut-ln(2)			
6	245	1244.01	140.36	End Shut-In(2)			
J	246	2007.19	140.01	Final Hydro-static			

DDECCLIDE CLIMANADY

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 46%g, 39%o, 15%m	0.30
300.00	GMCO 60%o, 23%g, 17%m	2.08
210.00	CGO 81%o, 19%g	2.95
0.00	GIP = 300'	0.00

Gas Rai	es	
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Ref. No: 68592 Trilobite Testing, Inc Printed: 2022.04.11 @ 11:46:53



Murfin Drilling Co., Inc.

29/2s/35w Rawlins KS

250 N. Water STE 300

Uhlaender #1-29

Tester:

Unit No:

Wichita, KS 67202

Job Ticket: 68592 **DST#: 1**

Test Type: Conventional Straddle (Initial)

James Winder

73

ATTN: Michel Runnion

Test Start: 2022.04.11 @ 00:05:00

GENERAL INFORMATION:

Formation: LKC "D"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:54:06 Time Test Ended: 10:52:35

Interval:

4208.00 ft (KB) To 4255.00 ft (KB) (TVD) Reference ⊟evations:

Total Depth: 4890.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

3226.00 ft (KB)

3221.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8367 Outside

 Press@RunDepth:
 psig
 @
 4209.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2022.04.11 End Date: 2022.04.11 Last Calib.: 2022.04.11

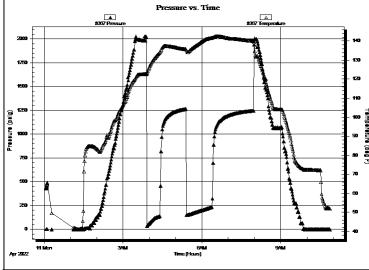
Start Time: 00:05:01 End Time: 10:52:20 Time On Btm: Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 24 min., built to 15"

60 - ISI: Blow back built to 2"

60 - FF: Blow built to BOB at 22 min., built to 25 1/2"

90 - FSI: Blow back built to 4"



PRESSURE S	UMMARY
------------	--------

	Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
Tamparatura (dag F)				
9				

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 46%g, 39%o, 15%m	0.30
300.00	GMCO 60%o, 23%g, 17%m	2.08
210.00	CGO 81%o, 19%g	2.95
0.00	GIP = 300'	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
--	----------------	-----------------	------------------

Trilobite Testing, Inc Ref. No: 68592 Printed: 2022.04.11 @ 11:46:54



Murfin Drilling Co., Inc.

29/2s/35w Rawlins KS

250 N. Water STE 300 Wichita, KS 67202

Uhlaender #1-29

Job Ticket: 68592

DST#: 1

ATTN: Michel Runnion

Test Start: 2022.04.11 @ 00:05:00

GENERAL INFORMATION:

Formation: LKC "D"

Interval:

Deviated: Test Type: Conventional Straddle (Initial) No Whipstock: ft (KB)

Time Tool Opened: 03:54:06 Time Test Ended: 10:52:35

Unit No: 73

Tester:

James Winder

4208.00 ft (KB) To 4255.00 ft (KB) (TVD)

Reference Elevations: 3226.00 ft (KB)

Total Depth: 4890.00 ft (KB) (TVD)

3221.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8700 Below (Straddle)

Press@RunDepth: 4256.00 ft (KB) 8000.00 psig psig @ Capacity:

Start Date: 2022.04.11 End Date: 2022.04.11 Last Calib.: 2022.04.11

Start Time: 00:05:01 End Time: Time On Btm: 10:52:20

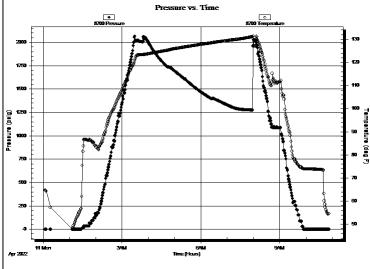
Time Off Btm:

TEST COMMENT: 30 - IF: Blow built to BOB (11") at 24 min., built to 15"

60 - ISI: Blow back built to 2"

60 - FF: Blow built to BOB at 22 min., built to 25 1/2"

90 - FSI: Blow back built to 4"



PRESSURE	SUMMARY

1	Time	Pressure		Annotation
	(Min.)	(psig)	(deg F)	
.				
Temperatura (dec F)				
2				
"				

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GMCO 46%g, 39%o, 15%m	0.30
300.00	GMCO 60%o, 23%g, 17%m	2.08
210.00	CGO 81%o, 19%g	2.95
0.00	GIP = 300'	0.00

Gas Rates

Ch	oke (inches) F	Pressure (psig)	Gas Rate (Mcf/d)
----	----------------	-----------------	------------------

Trilobite Testing, Inc Ref. No: 68592 Printed: 2022.04.11 @ 11:46:58



FLUID SUMMARY

DST#: 1

Murfin Drilling Co., Inc.

29/2s/35w Rawlins KS

250 N. Water STE 300 Wichita, KS 67202

ATTN: Michel Runnion

Uhlaender #1-29

Job Ticket: 68592

Test Start: 2022.04.11 @ 00:05:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: 27.6 deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: ppm

Viscosity: 49.00 sec/qt Cushion Volume: bbl

Water Loss: 9.19 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 3400.00 ppm Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GMCO 46%g, 39%o, 15%m	0.295
300.00	GMCO 60%o, 23%g, 17%m	2.077
210.00	CGO 81%o, 19%g	2.946
0.00	GIP = 300'	0.000

Total Length: 570.00 ft Total Volume: 5.318 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity = 28 api @ 64 deg F Corrected Gravity = 27.6 api

Trilobite Testing, Inc Ref. No: 68592 Printed: 2022.04.11 @ 11:46:59

