KOLAR Document ID: 1547081

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 # 30606
Name: Murfin Drilling Co., Inc.
Address 1: 250 N WATER STE 300
Address 2:
City: WICHITA State: KS Zip: 67202 + 1216
Contact Person: Rich Pancake
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: NA
Purchaser:

Designate Type of Completion:
☑ New Well ☐ Re-Entry ☐ Workover
☐ Oil ☐ WSW ☐ SWD
☐ Gas ☐ DH ☑ EOR
☐ OG ☐ GSW
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:
Operator:
Well Name:
Original Comp. Date: Original Total Depth:
☐ Deepening ☐ Re-perf. ☐ Conv. to EOR ☐ Conv. to SWD
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☑ EOR Permit #: E-34,031
☐ GSW Permit #:

11/27/2020 Spud Date or Recompletion Date
11/29/2020 Date Reached TD
01/05/2021 Completion Date or Recompletion Date

API No.: 15-153-21255-00-00
Spot Description:
W2 - NW - SW - NE Sec. 23 Twp. 2 S. R. 36 ☐ East ☑ West
1650 Feet from ☑ North / ☐ South Line of Section
2460 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Rawlins
Lease Name: FRISBIE Well #: 5-23
Field Name:
Producing Formation: LKC
Elevation: Ground: 3286 Kelly Bushing: 3291
Total Vertical Depth: 4550 Plug Back Total Depth: 4525
Amount of Surface Pipe Set and Cemented at: 350 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☑ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 600 ppm Fluid volume: 200 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
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: 02/03/2021
☐ **Confidential Release Date:** 02/03/2023
☑ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☐ **Geologist Report / Mud Logs Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** Karen Ritter **Date:** 02/03/2021

Page Two

Operator Name: Murfin Drilling Co., Inc. Lease Name: FRISBIE Well #: 5-23

Sec. 23 Twp. 2 S. R. 36 ☐ East ☑ West County: Rawlins

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 Sheets)*	☐ Yes	☑ No
Samples Sent to Geological Survey	☐ Yes	☑ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☐ Yes	☑ No

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
NA	NA	NA

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	350	Common	255	3%cc, 2% gel
Production	7.875	5.500	15.5	4547	H-Con, H-LD	485	1/2# flo-cel, 10% salt, 5% cal-seal, 1/2#

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

1. Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☑ No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/ Injection: 01/07/2021	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* Injection					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:	
		Top	Bottom
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	4418	4424

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*
4	4418	4424			300 gal 20% MCA, 1500 gal 20% MCA

TUBING RECORD:	Size:	Set At:	Packer At:
	2.375	4399	4399

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	FRISBIE 5-23
Doc ID	1547081

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	350	Common	255	3%cc, 2% gel
Production	7.875	5.500	15.5	4547	H-Con, H-LD	485	1/2# flo-cel, 10% salt, 5% cal-seal, 1/2# per SX flo-cel,1/4% D-AIR, 3/4% CFR-1

CEMENT TREATMENT REPORT

Customer:	Murfin Drilling Co	Well:	Frisbie 5-23	Ticket:	ICT4466
City, State:		County:	Rawlins KS	Date:	11/27/2020
Field Rep:	Arturo	S-T-R:	23/2/36	Service:	Surface

Downhole Information	
Hole Size:	12 1/4 in
Hole Depth:	ft
Casing Size:	8 5/8 in
Casing Depth:	347 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	20.5 bbls

Calculated Slurry - Lead	
Blend:	H325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	100%
Total Slurry:	64.0 bbls
Total Sacks:	255 sx

Calculated Slurry - Tail	
Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	0.0 bbls
Total Sacks:	#DIV/0! sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
11:00 AM			-	-	Arrivie on location
11:05 AM				-	Safety meeting
11:10 PM				-	Rig up pump and lines
1:30 PM				-	Casing on bottom. Circulate
1:47 PM	5.0	220.0	64.0	64.0	Mix 255 sks of H 325
1:56 PM	5.0	190.0	20.5	84.5	Displace
2:00 PM		110.0		84.5	Shut In well
				84.5	5 bbls to pit
2:20 PM				84.5	Rig down pump and lines
2:30 PM				84.5	Depart
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	
				84.5	

	CREW	UNIT
Cementer:	Dane	78
Pump Operator:	John	208
Bulk #1:	Mike	242
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
5.0 bpm	173 psi	85 bbls

CEMENT TREATMENT REPORT

Customer:	MURFIN DRILLING COMPANY	Well:	FRISBIE 5-23	Ticket:	WP1003
City, State:	MACDONALD KS	County:	RAWLINS KS	Date:	12/1/2020
Field Rep:	NATHAN	S-T-R:	23-2S-36W	Service:	5.5 LONGSTRININ

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	ft
Casing Size:	5 1/2 in
Casing Depth:	4547 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	107.7 bbls

Calculated Slurry - Lead	
Blend:	H-CON
Weight:	12.0 ppg
Water / Sx:	14.5 gal / sx
Yield:	2.47 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	143.0 bbls
Total Sacks:	325 sx

Calculated Slurry - Tail	
Blend:	H-LD
Weight:	15 ppg
Water / Sx:	6.2 gal / sx
Yield:	1.49 ft^3 / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	42.0 bbls
Total Sacks:	158 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
7:00 PM			-	-	ON LOCATION, SAFTEY MEETING
8:30 PM				-	RUN 5 1/2" 15.5# CASING WITH AUTOFILL GUIDE SHOE, LATCH DOWN IN FIRST COLLAR BASKETS ON 2,27,49,68,80
				-	TURBOLIZERS ON1,2,3,4,5,6,7,8,9,10,27,49
10:22 PM				-	CASING ON BOTTOM
10:52 PM				-	HOOK TO CASING, BREAK CIRC WITH RIG
11:43 PM	5.0	250.0	24.0	24.0	PUMP 1000 GALLONS MUDFLUSH
11:49 PM	5.0	250.0	5.0	29.0	PUMP 5 BBL WATER
11:52 PM	5.3	300.0	143.0	172.0	MIX 325 SKS H-CON
12:23 AM	6.3	200.0	42.0	214.0	MIX160 SKS H-LD CEMENT
12:36 AM	3.0	50.0	5.0	219.0	WASH PUMP AND LINES, DROP PLUG
12:48 AM	6.0	500.0		219.0	START DISPLACEMENT, CEMENT LIFTING
1:03 AM	3.0	1,100.0	95.0	314.0	SLOW RATE
1:11 AM		2,200.0	107.7	421.7	PLUG DOWN, RELEASED AND HELD
1:20 AM	2.0	50.0	7.0	428.7	MIX 30 SKS H-PLUG FOR RAT HOLE
1:25 AM	2.0	50.0	5.0	433.7	MIX 20 SKS H-PLUG FOR RAT HOLE
					CEMENT TO SURFACE AT ABOUT 100 BBLS OF DISPLACEMENT OUT
				-	CIRCULATION THROUGH JOB
				-	JOB COMPLETE, THAN K YOU!
				-	MIKE MATTALMIKE,E.J. & RILEY
				-	
				-	
				-	
				-	
				-	
				-	
				-	
				-	

CREW		UNIT
Cementer:	MATTAL	912
Pump Operator:	MCGRAW	526/521
Bulk #1:	MCGRAW	527/533
Bulk #2:	OSBORN	181/532

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.1 bpm	495 psi	434 bbls

2

ftv: 5-2020/08/05
mplv: 79-2020/10/22