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: Rob Kramer
Phone: (316) 267-3241
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Marc Summervill
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 #:
☐ GSW Permit #:

07/20/2022	07/27/2022	07/28/2022
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-163-24459-00-00
Spot Description:
__ - NE - NE - NE Sec. 30 Twp. 6 S. R. 19 ☐ East ☑ West
330 Feet from ☑ North / ☐ South Line of Section
330 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: Rooks
Lease Name: TALL T Well #: 1-30
Field Name:
Producing Formation: NA
Elevation: Ground: 2104 Kelly Bushing: 2109
Total Vertical Depth: 3371 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 220 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: 4200 ppm Fluid volume: 715 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: 09/15/2022
☐ **Confidential Release Date:** 09/14/2024
☐ **Wireline Log Received** ☐ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ **I** ☑ **II** ☐ **III** **Approved by:** David Befort **Date:** 09/19/2022

Page Two

Operator Name: Murfin Drilling Co., Inc. Lease Name: TALL T Well #: 1-30

Sec. 30 Twp. 6 S. R. 19 ☐ East ☑ West County: Rooks

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 ☐ Yes ☑ No
(Attach Additional Sheets)

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
see attached	see attached	see attached

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	12.250	8.625	23	220	H325	150	

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:

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*

PRODUCTION INTERVAL: Top _____ Bottom _____

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)*

TUBING RECORD: Size: Set At: Packer At:

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

Form	ACO1 - Well Completion
Operator	Murfin Drilling Co., Inc.
Well Name	TALL T 1-30
Doc ID	1660939

Casing

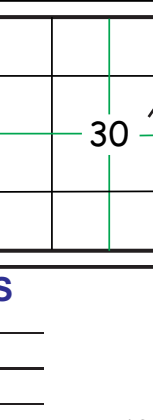
Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.250	8.625	23	220	H325	150	

GEOLOGICAL REPORT

Marc R. Summervill

39.509116
-99.472718
NAD 27 KS-N
X:431608
Y:1564481

COMPANY Murfin Drilling Company, Inc.
API # 15-163-24459 FIELD Unnamed
LEASE Tall T WELL # #1-30
LOCATION NE NE NE
SURVEY 330' FNL 330' FEL
SECTION 30 TWP 6S RGE 19W
COUNTY Rooks STATE Kansas



COMPANY & WELL Murfin Drilling Company, Inc.
LOCATION 330' FNL 330' FEL NE NE NE
SEC 30 TWP 6S RGE 19W
COUNTY Rooks STATE Ks

CONTRACTOR Murfin Drilling Rig # 16
SPUD 07-20-22 COMP 07-28-22
RTD 3373' LTD
MUD UP AT 2983'
MUD TYPE Chemical MudCo Gary Schmidtberger

SAMPLES SAVED FROM 3240 to RTD
DRILLING TIME FROM 3000 to RTD
SAMPLES EXAMINED FROM 3240 to RTD
GEOLOGICAL SUPERVISION FROM 3000 to RTD
WELSITE GEOLOGIST Marc R. Summervill

ELEVATIONS

K.B. 2109
D.F.
G.L. 2104
All measurements from K.B. 2109

CASING RECORD

Conductor of w/ sx
Surface 220 of 8 5/8 w/ 150 sx
Production of w/ sx
8 5/8 5 jts 23#

ELECTRICAL SURVEYS None

Well Comparison Sheet

	Samples		Structure Compared to:					
	MURFIN DRLG CO Tall T 1-30 NE NE NE Sec. 30-6S-19W		MURFIN DRLG CO Miller 1-29 NW NW NW Sec. 29-6S-19W			MURFIN DRLG CO Hawk 1-20 S2 NW SW SW Sec. 20-6S-19W		
KB =	2109		2121			2134		
	Depth	Subsea	Depth	Subsea	Compare	Depth	Subsea	Compare
Anhydrite	1730	+379	1715	+406	-27	1706	+428	-22
Base Anhy	1758	+351	1748	+373	-22	1740	+394	-23
Topeka	3123	-1014	3126	-1005	-9	3123	-989	-25
Deer Creek	3174	-1065	3180	-1059	-6	3177	-1043	-22
LeComp	3240	-1131	3244	-1123	-8	3240	-1106	-25
Oread	3274	-1165	3279	-1158	-7	3277	-1143	-22
Heebner Sh	3315	-1206	3319	-1198	-8	3321	-1187	-19
Toronto	3338	-1229	3341	-1220	-9	3343	-1209	-20
LKC-A	3350	-1241	3354	-1233	-7	3356	-1222	-19
LKC-B			3384	-1263		3387	-1253	
LKC-D			3410	-1289		3415	-1281	
LKC-E			3426	-1305		3432	-1298	
LKC-F			3434	-1313		3438	-1304	
LKC-G			3446	-1325		3451	-1317	
LKC-H			3479	-1358		3487	-1353	
LKC-J			3532	-1411		3528	-1394	
Stark Sh			3541	-1420		3541	-1407	
BKC-A			3557	-1436		3557	-1423	
LKC-L			3560	-1439		3568	-1434	
Mound City			3563	-1442		3571	-1437	
Lenapah			0	2121		3590	-1456	
Marmaton			3593	-1472		3600	-1466	
Reagan			3625	-1504		3629	-1495	
Granite Wash			3652	-1531		3643	-1509	
Granite			3705	-1584		3665	-1531	
RTD	3373	-1264	3712	-1591	327	3675	-1541	377
LTD			3709	-1588		3673	-1539	

REMARKS & RECOMMENDATIONS:

After encountering a fractured interval in the LKC 'A' that caused circulation to be lost the decision was taken to P & A.

ROCK TYPES

Dolprim, Dolsec, Lmst fw7>, Mrlstadc, Ss, Shgy, Shblok, Shool, Sltst, Arg/Shale, Dol Lime, Ool grnst, Lsbrec, Lscongl

ACCESSORIES

MINERAL
- Argillaceous
- Calcareous
- Chert
- Chert Pebble, white
- Dolomitic
- Glauconite
- Pyrite

FOSSIL
- Bioclastic or Fragmenta
- Crinoids
- Oolite

STRINGER
- Limestone

DUNHAM
- 6S Grainst

OIL SHOWS
- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- Dead Oil Stn
- Fluorescence

INTERVALS
- Core
- DST

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track
ROP (min/ft)
Gamma Ray (API)
DCAL (in)

1:240 Imperial
ROP (min/ft) 0 – 10
Gamma Ray (API) 0 – 150
DCAL (in) 6 – 16

Depth: 2983.0
Date: 07/20/22
MW: 8.8
VIS: 50
LCM: 1#
Co: MudCo

Depth: 3300.0
Date: 07/26/22
MW: 9.4
VIS: 50
LCM: 1#
Co: MudCo

Depth: 3321.0
Date: 07/26/22
MW: 9.4
VIS: 50
LCM: 1#
Co: MudCo

Depth: 3373.0
Date: 07/28/22
MW: 9.7
VIS: 50
LCM: 1#
Co: MudCo

Depth: 3333.0
Date: 07/26/2022
WOB:
RPM:
SPM:
PP:

Depth: 3361.0
Date: 07/26/2022
RPM:
SPM:
PP:

Depth: 3368.0
Date: 07/26/2022
WOB:
RPM:
SPM:
PP:

Depth: 3371.0
Date: 07/26/2022
WOB:
RPM:
SPM:
PP:

Core Interval | DST Interval | Depth | Intervals | Interpreted Lithology | Oil Shows | Sample Descriptions | Remarks | DST

3010 3020 3030 3040 3050 3060 3070 3080 3090 3100 3110 3120 3130 3140 3150 3160 3170 3180 3190 3200 3210 3220 3230 3240 3250 3260 3270 3280 3290 3300 3310 3320 3330 3340 3350 3360 3370 3380 3390 3400 3410 3420 3430 3440 3450

Conn

CFS

TOPEKA 3123 (-1014)

bridge

DEER CREEK 3174 (-1065)

Ls: crm, fs xln, foss, fr intrapart por,
Ls: gry, fn xln, NVP,
Ls, spkld gry-wht, med xln, pr IP por, sl odor, NS

Sh: blk

Sh: red, gry

LeCOMP 3240 (-1131)

Ls: crm-brn, vfn xln, pr vis por, sm spkld blk-wht, sl foss, pr foss moldic por, sl odor, NS
Ls: crm-lt gry, fn-med xln, foss, fr-gd IP & intrapart por, sl odor, NS
Ls: crm-gry-dk gry,mostly fn xln, foss, mostly crs grn, mostly pr vis por, sm intrapart por, sub-chlky, sl odor, VSSO on brk
Sh: red, gry

vis: 47
wt: 9.0
lcm: 1#

OREAD 3274 (-1165)

Ls: crm-lt gry, foss grnstn, crs grn, gd IP & intrapart por, odor, NS
Ls: crm-lt gr-gry, sm fn xln, sm foss-ool grnstn, crs grn, sm wf gd foss moldic por, sm wf pr vis por, sm blk spkld, pyr, fr odor, NS

Dol: gry, fn xln, fr-gd interxln por, fr-gd odor, NS

Ls: crm-lt gry, sm brn, fn xln, part foss, part dns, pr-NVP, chlky, sl odor, NS

Ls: crm-lt brn, mic xln, pt foss, NVP, pyr, chlky, gd odor, NS

HEEBNER 3315 (-1206)

vis: 63
wt: 8.9
lcm: 4#

Wiper Trip to collars
STB : 2.38 ft

Sh: blk
Ls: crm, mic-fn xln, dns, NVP
Ls: gry, mad-crs grn foss grnstn, spkld, fr IP por, sli odor, NS

Sh: Red, gry

TORONTO 3338 (-1229)

Ls: crm, crs grn foss grnstn, hd, dns, gd intrapart & fr IP por, sli odor, NS
Ls: crm-brn-lt gry, mic-fn xln, foss wkstn-pkstn, pr vis por, sl odor, NS

LKC-A 3350 (-1241)

lost circ @ 3361'

Ls: intraclast coog, crs grn, foss, ool, pr intrapart por, Ls: crm, crs grn foss-ool grnstn, fr IP-vug por, dns, Ls: gry, crs grn wkstn-pkstn, pr vis por, sli odor, NS, ***A few pieces are twice normal size***

OPERATIONS CURTAILED AFTER LOST CIRC. RTD = 3373'

COMPANY Murfin Drilling Company, Inc.
API # 15-163-24459 FIELD Unnamed
LEASE Tall T WELL # #1-30
LOCATION NE NE NE
SURVEY 330' FNL 330' FEL
SECTION 30 TWP 6S RGE 19W
COUNTY Rooks STATE Kansas

ELEVATIONS
K.B. 2109
D.F.
G.L. 2104
All measurements from K.B. 2109

CEMENT TREATMENT REPORT

Customer:	Murfin Drilling Co	Well:	Tall T #1-30	Ticket:	WP-3109
City, State:	Oakley KS	County:	Rooks KS	Date:	7/20/2022
Field Rep:	Andy	S-T-R:	30-6S-19W	Service:	Surface

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12 1/4 in	Blend:	H-325	Blend:	
Hole Depth:	220 ft	Weight:	14.8 ppg	Weight:	ppg
Casing Size:	8 5/8 in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	219 ft	Yield:	1.41 ft^3 / sx	Yield:	ft^3 / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0735 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	220 ft	Depth:	ft
Tool / Packer:		Annular Volume:	16.2 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	12.8 bbls	Total Slurry:	37.6 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	150 sx	Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
12:20p			-	-	Arrival
12:25p				-	Safety meeting
12:30p				-	Rig up
12:32p				-	Circulated hole
12:40p	3.0	210.0	5.0	5.0	H2O ahead
12:42p	8.1	430.0	37.6	42.6	Mixed 150 sks of H-325 @ 14.8 ppg @ 220'
12:50p	3.5	220.0	12.8	55.4	Displaced H2O
1:00p				55.4	Plug down
1:03p				55.4	Wash up
1:10p				55.4	Rig down
1:30p				55.4	Depart location
					Circulated 5 bbl to pit

	CREW	UNIT
Cementer:	Jesse	78
Pump Operator:	Spencer	528-520
Bulk #1:	Michael	194-253
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
4.9 bpm	287 psi	55 bbls

ftv: 15-2021/01/25
mplv: 264-2022/05/23

CEMENT TREATMENT REPORT

Customer:	Murfin Drilling Co	Well:	Tall T # 1-30	Ticket:	WP-3149
City, State:	Hill city KS	County:	Rooks KS	Date:	7/28/2022
Field Rep:	Andy	S-T-R:	30-6S-19W	Service:	PTA

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	7 7/8 in	Blend:	H-plug	Blend:	
Hole Depth:	3370 ft	Weight:	13.8 ppg	Weight:	ppg
Casing Size:	in	Water / Sx:	6.9 gal / sx	Water / Sx:	gal / sx
Casing Depth:	ft	Yield:	1.42 ft^3 / sx	Yield:	ft^3 / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	0.0406 bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	1750 ft	Depth:	ft
Tool / Packer:		Annular Volume:	71.1 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	27.9 bbls	Total Slurry:	64.4 bbls	Total Slurry:	0.0 bbls
		Total Sacks:	255 sx	Total Sacks:	0 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
3:20p			-	-	Arrival
3:25p				-	Safety meeting
3:30p				-	Rig up
3:45p	4.0	150.0	5.0	5.0	H2O ahead
3:47p	5.4	250.0	12.6	17.6	Mixed 50 sks of H-plug @ 13.8 ppg @ 1750'
3:50p	3.8	100.0	20.4	38.0	Displaced H2O
3:54p				38.0	Pull pipe 1050'
4:06p	4.1	100.0	5.0	43.0	H2O ahead
4:09p	5.6	250.0	25.2	68.2	Mixed 100 sks of H-plug @ 13.8 ppg @ 1050'
4:15p	4.0	125.0	6.0	74.2	Displaced H2O
4:18p				74.2	Pull pipe 250'
4:45p	4.0	100.0	5.0		H2O ahead
4:47p	5.4	250.0	12.6		Mixed 50 sks of H-plug @ 13.8 ppg @ 250'
4:50p	2.0	100.0	1.5		Displaced H2O
4:52p					Pull pipe to surface
5:15p	3.0	100.0	2.5		Mixed 10 sks of H-plug @ 13.8 ppg @ 40'
5:20p	3.0	100.0	3.8		Mixed 15 sks of H-plug @ 13.8 ppg @ Mouse hole
5:25p	3.0	100.0	4.9		Mixed 30 sks of H-plug @ 13.8 ppg @ Rat hole
5:30p					Plug down
5:32p					Wash up
5:40p					Rig down
6:00p					Depart location

	CREW	UNIT
Cementer:	Jesse	78
Pump Operator:	Jose	208
Bulk #1:	Kale	205
Bulk #2:		

SUMMARY		
Average Rate	Average Pressure	Total Fluid
3.9 bpm	144 psi	105 bbls

ftv: 15-2021/01/25
mplv: 302-2022/07/21

DRILLING REPORT - LOG TOPS - TALL T 1-30

	MDCI Tall T #1-30 330 FNL 330 FEL Sec. 30-T6S-R19W 2109' KB					
Formation	Sample top	Datum	Ref	Log Top	Datum	Ref
Anhydrite	1720	+389	-18			
B/Anhydrite	1749	+360	-14			
Topeka						
Heebner	3314	-1205	-8			
Toronto	3338	-1229	-10			
Lansing	3350	-1241	-8			
Mound City						
Reagan						
Granite						
RTD	3371					
LTD						

No Logs