KOLAR Document ID: 1518442

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:	SecTwpS. R East
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 #	
Name:	
Wellsite Geologist:	
Purchaser:	
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:
☐ 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 S □ Plug Back □ Liner □ Conv. to GSW □ Conv. to F	Drining Fluid Management Fluir
	Chloride content:ppm Fluid volume:bbls
□ Commingled Permit #: □ Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date 6	QuarterSec TwpS. R East West
Recompletion Date Recompletion Date Recompletion Date	

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:						

KOLAR Document ID: 1518442

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery, Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€ Y€	es No						
			Repo		RECORD [Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia reicent Additives	
Plug Off Z										
Did you perform Does the volum Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)		Record		
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	HILLS 1-13
Doc ID	1518442

All Electric Logs Run

CDL/CNL/PE
SONIC
MEL
DIL

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	HILLS 1-13
Doc ID	1518442

Tops

Name	Тор	Datum
Anhydrite	2654	+ 324
B/Anhydrite	2686	+ 292
Heebner	3865	- 887
Lansing	3911	- 933
Stark	4096	- 1117
Marmaton	4163	- 1185
Pawnee	4270	- 1292
Cherokee	4347	- 1369

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	HILLS 1-13
Doc ID	1518442

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	20	221	Common		3% cc, 2% gel
Production	7.875	5.5	15.5	4385	SMD	250	



TICKET NUMBE	₹	10	10	K	
LOCATION H	110	nto	v.		-
FOREMAN /	77	17		7	-

FIELD TICKET & TREATMENT REPORT CEMENT

	CUSTOMER#		L NAME & NUME	BER	SECTION	TOWNSHIP	T 5	T
USTOMER		1 Hill:	5 #1-13		13	1 STINONIP	RANGE	COUNTY
	11 - 1			Call.,			<u> </u>	Kickenster
AILING ADDR	II Dole	·7		7.2.2	TRUCK#	DRIVER	TRUCK#	DRIVER
	L00			Merta 2	Jaron		THOOK#	DRIVER
īΥ		STATE		_ \~\? ⊆	Colando			
		SIMIE	ZIP CODE	7'25	了D 小什么			
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SING DEPTH				_HOLE DEPTH	_ ソス1	CASING SIZE &	NEIGHT	120 . J.J
JRRY WEIGH	1	RILL PIPE		_TUBING			OTHER	
	10	SLURRY VOL		_WATER gal/sk		CEMENT LEFT I	CASING /5	7.
MARKS. 5	E.t. Oret	ISPLACEMEN	TPSI	_MIX PSI		RATE 47	Dua.	··· 4(
1360		. ,			117			_
17 72 7	Bri H-O	F. # .	14 111X	185 -	V. 110.11 3	% 10-20	4/1/ N	: 1gr. 0
	<u> </u>	-11.0			,		1 (20)	1.140.0
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				Marale.	Yno			
CCOUNT	QUANTITY	or UNITS			1al++ C.	101		
CODE	_		DE	SCRIPTION of	SERVICES or PRO	DUCT	UNIT PRICE	TOTAL
			PUMP CHARG	BE .			110000	
1								
	40		MILEAGE				1,1500	1,100
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	8.70		13. 13.		7		775	747.00
	8.70		13. 13.		7		1715 175 174 99	747.00

acknowledge that the payments terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

SWIFT Services. Inc. PAGE NO. LOG CUSTOMER JOB TYPE TICKET NO. 032 76 DESCRIPTION OF OPERATION AND MATERIALS WELL NO. Mull Drilling Co 832764 CHART VOLUME (BBL) (GAL) TIME PUMPS PRESSURE (PSI) TC TUBING 1900 On location w/float Equipment Rig Laying Down Drill Collars TD-4420' 112 Its set@ 4385' 5'2"x 15.5# Shoe It - 37,32' Baffle Nate - 4352' Centralizers-3,6,9,12, 15,18,21,24 Start Pipe w/Float Equipment
Break Circulation on Bottom
Hook up to Swift
Plug Rathole w/ 30 sacks
400 Pump Medilush 2030 2245 8 12 20 39 78 Drop Plug, Washout kump + lines Start Displacement 70 500 Catch Cement 102 Land Plag
Release Truck, Dry
Wash up
Rack up
Tob Complete 0130 103岁 0200 Thank You Jon, Austin, Shane

TICKET CONTINUATION

No. C	- INCRE

476280

PRICE REFERENCE 330 58) SECONDARY REFERENCE/ PART NUMBER PO Box 466 Ness City, KS 67560 Off: 785-798-2300 LOC 8 火 ACCOUNTING ACCT 9 TIE MILEAGE TOTAL WEIGHT CHARGE SERVICE CHARGE Swift Mult: Density Sta Flocele Cemen DESCRIPTION CUMINITES 1368,29 WELL 250 35 αIY (d) 165 e/8 QTY CONTINUATION TOTAL U/N 03/11/2020 PRICE 3 8 77.00 188 6192 38 ก‱ี 4250 5 1289 462 50 188 AMOUNT Ng 88 18



Operation: Jploading recovery & pressures

Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110
Elevation: 2970 Sur
Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

<u>DATE</u> March 07 2020

Test Interval: 3864 - 3920' DST #1 Total Depth: 3920' Formation: Toronto-Lan A

> Time On: 17:27 03/07 Time Off: 23:51 03/07 Time On Bottom: 19:40 03/07 Time Off Bottom: 21:45 03/07

Electronic Volume Estimate:

1st Open Minutes: 5 Current Reading: .3" at 5 min Max Reading: .3" Current Reading: 0" at 30 min Max Reading: 0"

2nd Open Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"

Current Reading: 0" at 60 min Max Reading: 0'

125 100 Temp 2 hrs 5 hrs Press(Psig) Temp(F)



Company: Mull Drilling Company, Inc

Lease: Hills #1-13



SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 Sur Field Name: Wildcat Pool: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

Total Depth: 3920'



Test Interval: 3864 - 3920' DST #1 Formation: Toronto-Lan A

> Time On: 17:27 03/07 Time Off: 23:51 03/07 Time On Bottom: 19:40 03/07 Time Off Bottom: 21:45 03/07

Recovered BBLS Foot 0.0246

Description of Fluid М

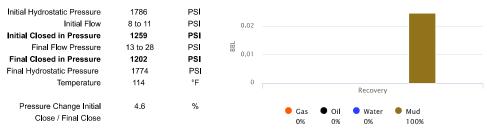
Gas % 0

Oil % Water % 0 0

Recovery at a glance

Mud % 100

Total Recovered: 5 ft Total Barrels Recovered: 0.0246



GIP cubic foot volume: 0



Company: Mull Drilling Company, Inc Lease: Hills #1-13

Operation: Uploading recovery & pressures SEC: 13 TWN: 5S RNG: 22W
County: RAWLINS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc- Rig 110
Elevation: 2970 Sur
Field Name: Wildcat
Pool: Wildcat
Job Number: 444
API #: 15-153-21246-00-00

<u>DATE</u>
March
07
2020

DST #1 Formation: Toronto- Test Interval: 3864 - Total Depth: 3920'

Time On: 17:27 03/07 Time Off: 23:51 03/07
Time On Bottom: 19:40 03/07 Time Off Bottom: 21:45 03/07

BUCKET MEASUREMENT:

1st Open: Built to .3 in 5 min 1st Close: No Blow 2nd Open: No Blow 2nd Close: No Blow

REMARKS

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud





Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Company, Inc - Rig 110
Elevation: 2970 Sur
Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

Packer 1: 3858.6 FT

Packer 2: 3864.1 FT

Top Recorder: 3850.6 FT

Bottom Recorder: 3918 FT

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"

Test Interval: 3864 - 3920' DST #1 Total Depth: 3920' Formation: Toronto-Lan A

> Time On: 17:27 03/07 Time Off: 23:51 03/07 Time On Bottom: 19:40 03/07 Time Off Bottom: 21:45 03/07

Down Hole Makeup

Heads Up: 6.0000000000002 FT

Drill Pipe: 3669.9 FT

ID-3 1/2

Weight Pipe: ID-2 7/8

Collars:

174,54 FT ID-2 1/4

Test Tool: 26.66 FT

ID-3 1/2-FH

Total Anchor: 55.9

Anchor Makeup Packer Sub: 1 FT

Perforations: (top):

4 1/2-FH Change Over: 1 FT

Drill Pipe: (in anchor): 31 4 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 3 FT

4 1/2-FH



SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 Sur Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00



Uploading recovery &

pressures

Test Interval: 3864 - 3920' Total Depth: 3920' **DST #1** Formation: Toronto-

Time On: 17:27 03/07 Time Off: 23:51 03/07 Time On Bottom: 19:40 03/07 Time Off Bottom: 21:45 03/07

Mud Properties

Mud Type: Chemical Weight: 9.0 Viscosity: 57 Filtrate: 6.0 Chlorides: 2100 ppm



Company: Mull Drilling Company, Inc

Lease: Hills #1-13

Uploading recovery &

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 Sur Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

DATE March 07 2020

pressures

Formation: Toronto-Lan A Test Interval: 3864 - 3920' DST #1 Total Depth: 3920'

Time On: 17:27 03/07 Time Off: 23:51 03/07 Time On Bottom: 19:40 03/07 Time Off Bottom: 21:45 03/07

Gas Volume Report

1st Open				2nd C	
Time	Orifice	PSI	MCF/D	Time	Orifice





Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 Sur Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

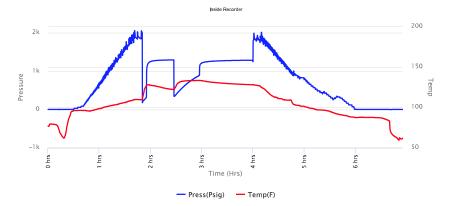
DATEMarch **08**2020

DST #2 Formation: Lan D-I Test Interval: 3958 - Total Depth: 4050' 4050'

Time On: 16:07 03/08 Time Off: 22:50 03/08
Time On Bottom: 17:55 03/08 Time Off Bottom: 20:00 03/08

Electronic Volume Estimate: 2400' 1st Open Minutes: 5 Current Reading: 40.3" at 5 min Max Reading: 40.3" 1st Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"

2nd Open Minutes: 30 Current Reading: 199.8" at 30 min Max Reading: 199.8" 2nd Close Minutes: 60 Current Reading: 0" at 60 min Max Reading: 0"





Company: Mull Drilling
Company, Inc

Lease: Hills #1-13

Operation:
Uploading recovery & pressures

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 Sur Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

Mud %

70

10

DATE
March
08
2020

DST #2 Formation: Lan D-I Test Interval: 3958 - Total Depth: 4050'

Time On: 16:07 03/08 Time Off: 22:50 03/08
Time On Bottom: 17:55 03/08 Time Off Bottom: 20:00 03/08

 Recovered

 Foot
 BBLS

 240
 3.4152

 1830
 24.4159326

Description of Fluid HWCM SLMCW
 Gas %
 Oil %
 Water %

 0
 0
 30

 0
 0
 90

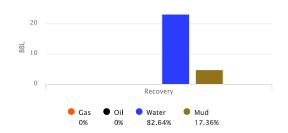
Recovery at a glance

Total Recovered: 2070 ft

Total Barrels Recovered: 27.8311326



Initial Hydrostatic Pressure	1847	PSI
Initial Flow	177 to 310	PSI
Initial Closed in Pressure	1290	PSI
Final Flow Pressure	341 to 893	PSI
Final Closed in Pressure	1285	PSI
Final Hydrostatic Pressure	1829	PSI
Temperature	134	°F
Pressure Change Initial	0.4	%



GIP cubic foot volume: 0



Operation:

Uploading recovery &

Company: Mull Drilling Company, Inc Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 22W
County: RAWLINS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 110
Elevation: 2970 Sur
Field Name: Wildcat
Pool: Wildcat
Job Number: 444
API #: 15-153-21246-00-00



DST #2 Formation: Lan D-I

Test Interval: 3958 - Total Depth: 4050' 4050'

Time On: 16:07 03/08 Time Off: 22:50 03/08
Time On Bottom: 17:55 03/08 Time Off Bottom: 20:00 03/08

2020 BUCKET MEASUREMENT:

1st Open: BOB in 1 min 1st Close: No Blow 2nd Open: BOB in 1 min 2nd Close: No Blow

REMARKS

Tool plugged with cuttings

Chlorides: 26,000 ppm





Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Company, Inc - Rig 110
Elevation: 2970 Sur
Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

<u>DATE</u> March 80 2020

Test Interval: 3958 - 4050' DST #2 Formation: Lan D-I Total Depth: 4050'

Time On: 16:07 03/08 Time Off: 22:50 03/08 Time On Bottom: 17:55 03/08 Time Off Bottom: 20:00 03/08

Down Hole Makeup

Heads Up: 14.76 FT Drill Pipe: 3764.8 FT

ID-3 1/2

Weight Pipe: ID-2 7/8

Collars: 174,54 FT

ID-2 1/4

Test Tool: 34.07 FT ID-3 1/2-FH

Jars Safety Joint

Total Anchor: 92.35

Anchor Makeup Packer Sub: 1 FT

Perforations: (top): 23 FT

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 63.35 FT

ID-3 1/2

Change Over: 1 FT Perforations: (below): 3 FT

4 1/2-FH

Packer 1: 3952.15 FT

Packer 2: 3957.65 FT

Top Recorder: 3941.57 FT

Bottom Recorder: 4048 FT

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 Sur Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00



Test Interval: 3958 -4050' Total Depth: 4050' DST#2 Formation: Lan D-I

Time On: 16:07 03/08 Time Off: 22:50 03/08 Time On Bottom: 17:55 03/08 Time Off Bottom: 20:00 03/08

Mud Properties

Mud Type: Chemical Weight: 9.0 Viscosity: 57 Filtrate: 6.0 Chlorides: 2100 ppm



Uploading recovery & pressures

Company: Mull Drilling Company, Inc

Lease: Hills #1-13

DST #2

SEC: 13 TWN: 5S RNG: 22W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 Sur Field Name: Wildcat Pool: Wildcat Job Number: 444 API #: 15-153-21246-00-00

DATEMarch **08**2020

ST #2 Formation: Lan D-I Test Interval: 3958 - Total Depth: 4050' 4050'

Time On: 16:07 03/08 Time Off: 22:50 03/08
Time On Bottom: 17:55 03/08 Time Off Bottom: 20:00 03/08

Gas Volume Report

1st Open				
Time	Orifice	PSI	MCF/D	

2nd Open				
Time	Orifice	PSI	MCF/D	



Operation: ripping out of hole with test tool

Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00

<u>DATE</u> March 09 2020

Test Interval: 4048 - 4094' DST #3 Formation: Lan J Total Depth: 4094'

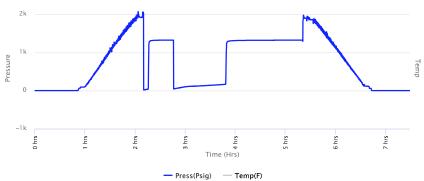
> Time On: 06:45 03/09 Time Off: 00:00 01/01 Time On Bottom: 10:14 03/09 Time Off Bottom: 13:19 03/09

Electronic Volume Estimate: 231'

1st Open Minutes: 5 Current Reading: 2" at 5 min Max Reading: 2"

1st Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"

2nd Open Minutes: 60 Current Reading: 8.9" at 60 min Max Reading: 8.9" Current Reading: 0" at 90 min Max Reading: 0'





Company: Mull Drilling Company, Inc

Lease: Hills #1-13 Operation: ripping out of hole with

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pach Will DCAT Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00

Total Depth: 4094'



test too

DST#3 Formation: Lan J Test Interval: 4048 -4094'

Time Off: 00:00 01/01 Time On: 06:45 03/09 Time On Bottom: 10:14 03/09 Time Off Bottom: 13:19 03/09

Recovered BBLS Foot 340 3.2132326

Description of Fluid MCW

Gas % 0

Oil % Water % 75

Mud % 25

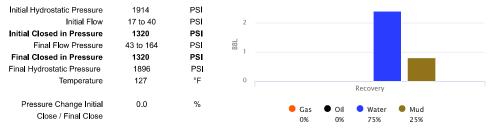
Total Recovered: 340 ft

Total Barrels Recovered: 3.2132326



Recovery at a glance

0



GIP cubic foot volume: 0



Company: Mull Drilling Company, Inc Lease: Hills #1-13 SEC: 13 TWN: 5S RNG: 33W
County: RAWLINS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 110
Elevation: 2970 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 444
API #: 15-153-21246-00-00



DST #3 Formation: Lan J Test Interval: 4048 - Total Depth: 4094'

Time On: 06:45 03/09 Time Off: 00:00 01/01
Time On Bottom: 10:14 03/09 Time Off Bottom: 13:19 03/09

<u>DATE</u> March **09** 2020

BUCKET MEASUREMENT:

1st Open: BOB in 2 min 1st Close: No Blow 2nd Open: Built to 8.9 2nd Close: No Blow

REMARKS

Tool Sample: -10% Gas 0% Oil 65% Water 45% Mud

Chlorides: 29000 ppm





Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Poo!: WILDCAT Job Number: 444 API #: 15-153-21246-00-00

Packer 1: 4042.97 FT

Packer 2: 4048.47 FT

Top Recorder: 4034.97 FT

Bottom Recorder: 4092 FT

Well Bore Size: 7 7/8

Surface Choke: 1"

Bottom Choke: 5/8"

<u>DATE</u> March **09** 2020 DST #3 Formation: Lan J Test Interval: 4048 - Total Depth: 4094' 4094'

Time On: 06:45 03/09 Time Off: 00:00 01/01
Time On Bottom: 10:14 03/09 Time Off Bottom: 13:19 03/09

Down Hole Makeup

Heads Up: 11.16 FT

Drill Pipe: 3859.43 FT

ID-3 1/2

Weight Pipe: F

ID-2 7/8

Collars: 174.54 FT *ID-2 1/4*

. _ .

Test Tool: 26.66 FT

ID-3 1/2-FH

Total Anchor: 45.53

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 8

4 1/2-FH

Change Over: 1 FT

Drill Pipe: (in anchor): 31.53 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 3 FT

4 1/2-FH



SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00



Operation: Tripping out of hole with

test too

DST #3 Formation: Lan J Test Interval: 4048 - Total Depth: 4094'

Time On: 06:45 03/09 Time Off: 00:00 01/01
Time On Bottom: 10:14 03/09 Time Off Bottom: 13:19 03/09

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 60 Filtrate: 6.5 Chlorides: 3500 ppm



Company: Mull Drilling Company, Inc

Lease: Hills #1-13

Operation:
Tripping out of hole with test tool

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00

DATEMarch **09**2020

DST #3 Formation: Lan J Test Interval: 4048 - Total Depth: 4094'

Time On: 06:45 03/09 Time Off: 00:00 01/01
Time On Bottom: 10:14 03/09 Time Off Bottom: 13:19 03/09

Gas Volume Report

1st Open				
Time	Orifice	PSI	MCF/D	

2nd Open				
Time	Orifice	PSI	MCF/D	



Operation:

Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00



<u>DATE</u> March 10

2020

DST #4

Formation: Myric Station,Ft. Scott,Cherokee

Test Interval: 4288 - 4380' Total Depth: 4380'

Time On: 17:58 03/10 Time Off: 00:19 03/11 Time On Bottom: 20:05 03/10 Time Off Bottom: 21:40 03/10

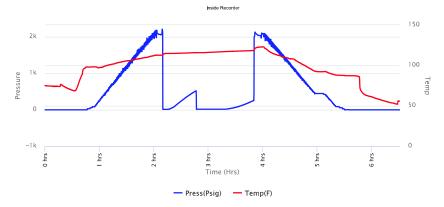
Electronic Volume Estimate: 0'

1st Open Minutes: 5 Current Reading: 0" at 5 min Max Reading: 0"

1st Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"

2nd Open Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"

2nd Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0





Company: Mull Drilling Company, Inc

Lease: Hills #1-13

Operation: Uploading recovery & pressures

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pach Will DCAT Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00

DATE March 10 2020

DST #4 Formation: Myric Station,Ft. Scott.Cherokee

Test Interval: 4288 -4380'

Total Depth: 4380'

Mud %

100

Time On: 17:58 03/10 Time Off: 00:19 03/11 Time On Bottom: 20:05 03/10 Time Off Bottom: 21:40 03/10

Recovered BBLS Foot 0.00492

Description of Fluid Μ

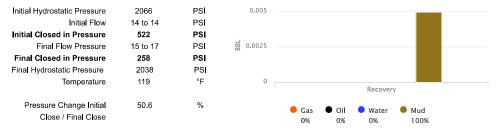
Gas % 0

Water % Oil % 0 0

Total Recovered: 1 ft Total Barrels Recovered: 0.00492



Recovery at a glance



GIP cubic foot volume: 0



Company: Mull Drilling Company, Inc Lease: Hills #1-13

Operation: Uploading recovery & pressures SEC: 13 TWN: 5S RNG: 33W
County: RAWLINS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc- Rig 110
Elevation: 2970 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 444
API #: 15-153-21246-00-00

<u>DATE</u> March **10** 2020 DST #4 Formation: Myric Test Interval: 4288 - Total Depth: 4380'
Station,Ft. 4380'
Scott,Cherokee

Time On: 17:58 03/10 Time Off: 00:19 03/11
Time On Bottom: 20:05 03/10 Time Off Bottom: 21:40 03/10

BUCKET MEASUREMENT:

1st Open: No Blow 1st Close: No Blow 2nd Open: No Blow 2nd Close: No Blow

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 100% Mud





Company: Mull Drilling Company, Inc

Lease: Hills #1-13

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00

<u>DATE</u> March 10 2020

DST #4

Formation: Myric Station,Ft. Scott,Cherokee

Test Interval: 4288 - 4380' Total Depth: 4380'

Time On: 17:58 03/10 Time Off: 00:19 03/11 Time On Bottom: 20:05 03/10 Time Off Bottom: 21:40 03/10

Down Hole Makeup

Heads Up: 22.69 FT

Drill Pipe: 4110.14 FT

ID-3 1/2

Weight Pipe: FT

ID-2 7/8

Collars: 174.54 FT

ID-2 1/4

Test Tool: 26.66 FT

ID-3 1/2-FH

Total Anchor: 92.35

Anchor Makeup Packer Sub: 1 FT

23 FT

Perforations: (top):

4 1/2-FH Change Over: 1 FT

Drill Pipe: (in anchor): 63.35 FT

ID-3 1/2

Change Over:

Perforations: (below):

4 1/2-FH

Packer 1: 4282.15 FT

Packer 2: 4287.65 FT

Top Recorder: 4274.15 FT

Bottom Recorder: 4378 FT

Well Bore Size: 7 7/8

Surface Choke: Bottom Choke: 5/8"

Company: Mull Drilling Company, Inc Lease: Hills #1-13

Operation: Uploading recovery & pressures

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00

DATE March 10

DST#4

Formation: Myric Station,Ft. Scott,Cherokee

Test Interval: 4288 -4380'

Total Depth: 4380'

Time Off: 00:19 03/11 Time On: 17:58 03/10 Time On Bottom: 20:05 03/10 Time Off Bottom: 21:40 03/10

Mud Properties

Mud Type: Chemical Weight: 9.1 Viscosity: 55

Filtrate: 7.2

Chlorides: 3000 ppm



Uploading recovery &

Company: Mull Drilling Company, Inc

Lease: Hills #1-13

pressures DATE March 10

2020

SEC: 13 TWN: 5S RNG: 33W County: RAWLINS State: Kansas Drilling Contractor: Murfin Drilling Company, Inc - Rig 110 Elevation: 2970 GL Field Name: Wildcat Pool: WILDCAT Job Number: 444 API #: 15-153-21246-00-00 Test Interval: 4288 - 4380'

Total Depth: 4380'

Time On: 17:58 03/10

Formation: Myric Station,Ft. Scott,Cherokee

Time Off: 00:19 03/11

Gas Volume Report

1st Open					
Time	Orifice	PSI	MCF/D		

DST #4

2nd Open				
Time	Orifice	PSI	MCF/D	

