

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date _____ Date Reached TD _____ Completion Date or Recompletion Date _____

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> 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: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	JJ 1-6
Doc ID	1632608

All Electric Logs Run

DIL
Density-Neutron
Sonic
Microlog

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	JJ 1-6
Doc ID	1632608

Tops

Name	Top	Datum
Stone Corral	2078	580
Heebner	3902	-1244
Lansing	3943	-1285
Stark Shale	4181	-1523
Marmaton	4290	-1632
Pawnee	4381	-1723
Fort Scott	4437	-1779
Cherokee	4463	-1805
Mississippi	4534	-1876



Services, Inc.

CHARGE TO: Mull Drle, Co.
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 33968
 PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City, Ks</u>	WELL/PROJECT NO. <u>1-6</u>	LEASE <u>J.T</u>	COUNTY/PARISH <u>Ness</u>	STATE <u>Ks</u>	CITY	DATE <u>11-22-2021</u>	OWNER <u>same</u>
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke Drle # 5</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>CONVERT 85/8" SURFACE</u>	WELL LOCATION <u>N10229, Ks</u>				
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	U/M		
575		1			MILEAGE # 115	30	MILE	6.00	180.00
576S		1			Pump Charge - Station Surfaces	1	JOB	226 FT	1000.00
325		1			STANDARD Cement	150	SBS	14.50	2175.00
278		1			CALCIUM CHLORIDE	7	SBS	40.00	280.00
279		1			RESTORATIVE GEL	3	SBS	30.00	90.00
290		1			D-ADD	2	GAL	42.00	84.00
581		1			SEWAGE CHARGE CEMENT	150	SBS	2.00	300.00
582		1			MINIMUM DRYAGE CHARGE	14750	LBS	221.25 TM	300.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 DATE SIGNED 11-22-2021 TIME SIGNED 1300
 OPERATOR Wayne Johnson APPROVAL Wayne Johnson

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	4409.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO			
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					
TOTAL					4579.80

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-22-2021 PAGE NO. 1

CUSTOMER MULL DRIG. Co. WELL NO. 1-6 LEASE JJ JOB TYPE 8 5/8" SURFACE TICKET NO. 33968

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1300							ON LOCATION @ TD 226'
								TD - 226' SET @ 226'
								TP - 226' 8 5/8" #/FT 23
								15' CEMENT LEFT IN CASING
	1430							BREAK CIRCULATION
	1450	5 1/2	36.3		✓		150	MAX CEMENT - 150 SLS STANDARD, 2% GEL, 3% CC
	1457	6	0		✓		200	DISPLACE CEMENT
	1500		13.5				100	CEMENT DISPLACED - SHUT IN
								CIRCULATED 20 SLS CEMENT TO PT
								WASH TRUCK
	1600							JOB COMPLETE
								THANK YOU
								WAYNE, PRESTON, SHAWN, SHANE



CHARGE TO: Mb11 Drilling
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET 35309

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Hays, KS
 2. Ness City, KS
 3.
 4.

WELL/PROJECT NO. 1-10
 LEASE 555
 COUNTY/PARISH Ness
 STATE KS
 CITY

TICKET TYPE SERVICE
 SALES
 CONTRACTOR Duke Drilling
 RIG NAME/NO. #5
 SHIPPED VIA CT

WELL TYPE 0:1
 WELL CATEGORY Development
 JOB PURPOSE Long string
 DELIVERED TO Location
 WELL PERMIT NO.

INVOICE INSTRUCTIONS

DATE 12/04/21
 ORDER NO.
 WELL LOCATION

OWNER

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE #	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF						
575		2			48 mi			6.00	240.00	
599		2			Pump Charge - Top to bottom Long String		1 EA	2050.00	2050.00	
298		2			D-Air		7 941	42.00	294.00	
280		2			Flocheck 21		1 1280 941	3.50	350.00	
221		2			Liquid KCL		6 941	25.00	150.00	
4D3		1			Cement Basinet		3 EA	275.00	825.00	
4D6		1			Catch Down Plug + Baffle 5 1/2"		1 EA	250.00	250.00	
467		1			Insert Flant Shoe w/ Aucto 5 1/2"		1 EA	325.00	325.00	
4B9		1			Turbolizer 5 1/2"		14 EA	90.00	1260.00	
419		1			Rotating Head Rental 5 1/2"		1 EA	250.00	250.00	

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MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X
 DATE SIGNED _____ TIME SIGNED _____
 A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				Page 1 9044.00
WE UNDERSTOOD AND MET YOUR NEEDS?				Page 2 12,797.35
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				397
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TOTAL
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				93018.99

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR [Signature] APPROVAL
 Thank You!



PO Box 466
Ness City, KS 67560
Of: 785-798-2300

TICKET CONTINUATION

TICKET No. 35309

CUSTOMER: *Max Drillings* WELL: *JT 1-6* DATE: *12/04/01* PAGE: *2* OF: *2*

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT					
		LOC	ACCT	DF			QTY.	UM	QTY.	UM							
330		2				Swift Multi-Density STD	450	SKS			18.00	8100.00					
327		2				50/50 Pozmix (20% Sel)	125	SKS			16.25	2031.25					
283		7				Salt	600	lbs			0.35	210.00					
292		2				Halad 322	60	lbs			8.50	510.00					
276		2				Florelle	150	lbs			3.00	450.00					
581		2				Service Charge					2.00	2.00					
583		2				Mileage Charge					1.00	2.00					
SERVICE CHARGE: <i>Cement</i> MILEAGE TOTAL WEIGHT: <i>55305</i> CHARGE: <i>55305</i> LOADED MILES: <i>40</i> CABOFEET: <i>575 SKS</i> TON MILES: <i>1106.1</i>																	
CONTINUATION TOTAL												12,747.25					

JOB LCG

SWIFT Services, Inc.

DATE 12/04/21 PAGE NO. 1

CUSTOMER Mull Drilling WELL NO. 1-6 LEASE JJ JOB TYPE Long String TICKET NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								On location with Fleet Equipment
								LTD - 4660'
								RTD - 4660'
								111 Joints of 5 1/2" x 15.5 #, 4653.6'
								Baffle Plate - 4614'
								Centralizers - 4, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
								28, 2 Ld
								Baskets - 4, 28, 62
	0030							Start Casing w/FE
	0310							Break Circulation on Bottom
	0500							Hook up to Swift
		3	15			400		Pump KCL Spacer ahead
		3	24			400		Pump Flocheck
		3	5			400		Pump KCL spacer
		2	8					Plug Rat hole w/30SKS SMD
		2	4					Plug Mouse hole w/15SKS SMD
		6						Start Cmt - SMD @ 11.2 ppg
		6	130			400		Raise Cmt Weight to 11.7 ppg
		6	225			200		Fin SMD, Start 50/50 @ 14.5 ppg
		4	260			Vac		Fin Cmt, Cmt Circulating to Surface
		6						Drop Plug, Washout Pump & Lines
		6				Vac		Start Displacement w/24 bbl KCL
		6	60			500		Catch Pressure
		4	1000			1000		Lift Pressure
	0705	4	110			1500		Land Plug
	0710							Release Track - Holding
								Wash up
	0730							Rack up
	0745							Job Complete
								Thanks
								Jon, Joe, Preston, Shawn, Isaac
								Circulated 200 SKS to Pit



**Company: Mull Drilling
Company, Inc**
Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
29
2021

DST #1 Formation: Lansing Test Interval: 4025 - 4077' Total Depth: 4077'

Time On: 14:48 11/29 Time Off: 22:13 11/29
Time On Bottom: 17:17 11/29 Time Off Bottom: 19:57 11/29

Electronic Volume
Estimate:
91'

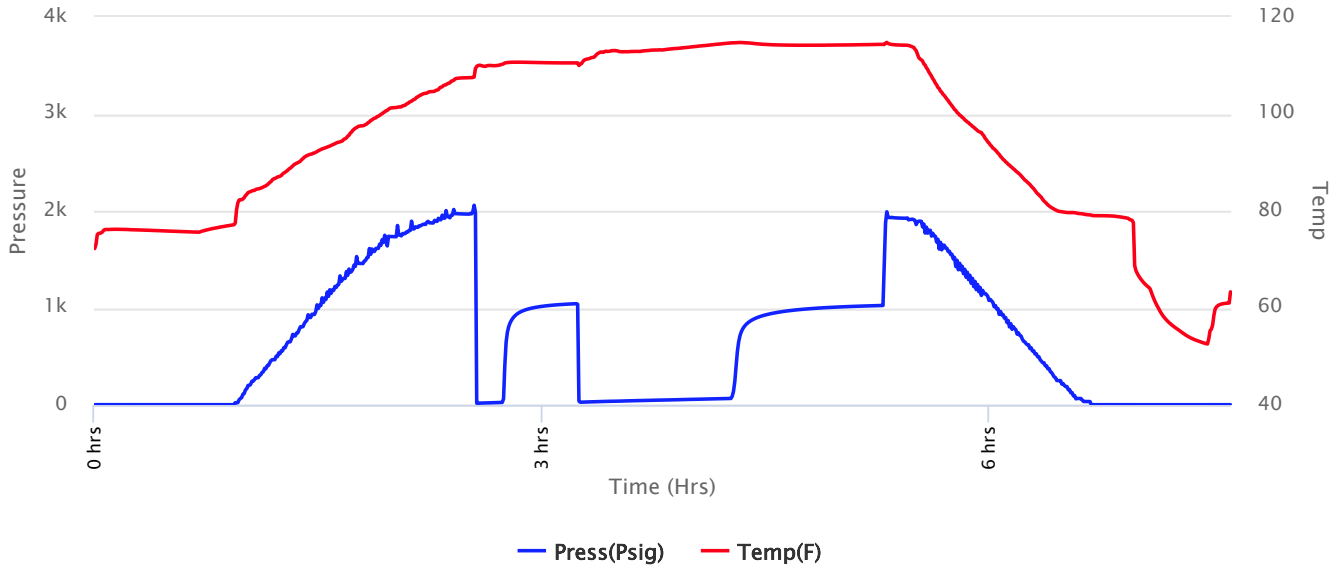
1st Open
Minutes: 10
Current Reading:
1.6" at 10 min
Max Reading: 1.6"

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

2nd Open
Minutes: 60
Current Reading:
6.8" at 60 min
Max Reading: 6.8"

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

Inside Recorder





**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
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Operation:
Uploading recovery &
pressures

DATE
November
29
2021

DST #1 Formation: Lansing Test Interval: 4025 - 4077' Total Depth: 4077'
Time On: 14:48 11/29 Time Off: 22:13 11/29
Time On Bottom: 17:17 11/29 Time Off Bottom: 19:57 11/29

Recovered

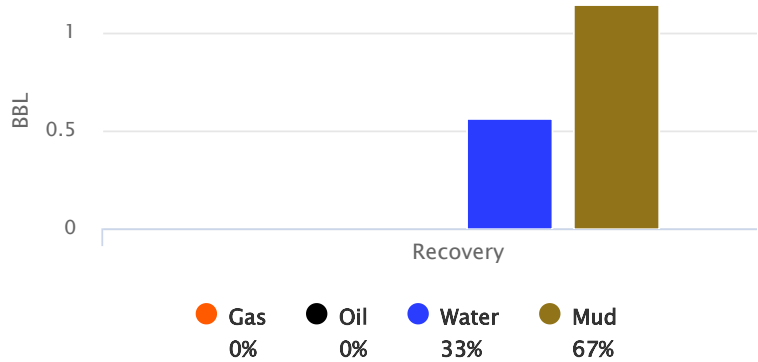
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
120	1.7076	HWCM	0	0	33	67

Total Recovered: 120 ft
Total Barrels Recovered: 1.7076

Reversed Out
NO

Initial Hydrostatic Pressure	1969	PSI
Initial Flow	16 to 25	PSI
Initial Closed in Pressure	1043	PSI
Final Flow Pressure	27 to 66	PSI
Final Closed in Pressure	1025	PSI
Final Hydrostatic Pressure	1933	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	1.8	%

Recovery at a glance



GIP cubic foot volume: 0



Company: Mull Drilling Company, Inc

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
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Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
29
2021

DST #1 **Formation: Lansing** **Test Interval: 4025 - 4077'** **Total Depth: 4077'**
Time On: 14:48 11/29 Time Off: 22:13 11/29
Time On Bottom: 17:17 11/29 Time Off Bottom: 19:57 11/29

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1 1/2"

1st Close: No BB

2nd Open: Surface blow building to 6 1/2"

2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas .5% Oil 50.5% Water 49% Mud

Ph: 9.0

Measured RW: .32 @ 60 degrees °F

RW at Formation Temp: 0.175 @ 115 °F

Chlorides: 27,000 ppm



**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
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Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
29
2021

DST #1 Formation: Lansing Test Interval: 4025 - 4077' Total Depth: 4077'

Time On: 14:48 11/29 Time Off: 22:13 11/29
Time On Bottom: 17:17 11/29 Time Off Bottom: 19:57 11/29

Down Hole Makeup

Heads Up: 16.06 FT	Packer 1: 4020.05 FT
Drill Pipe: 4008.54 FT <i>ID-3 1/2</i>	Packer 2: 4025.05 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4009.47 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4065 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 51.95	Surface Choke: 1"
	Bottom Choke: 5/8"
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	
Perforations: (top): 5 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 30.95 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



Company: Mull Drilling

Company, Inc

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W

County: NESS

State: KS

Drilling Contractor: Duke Drilling

Company, Inc - Rig 4

Elevation: 2647 GL

Field Name: Prairie Ridge North Ext

Pool: WILDCAT

Job Number: 536

API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
29
2021

DST #1 Formation: Lansing Test Interval: 4025 - 4077' Total Depth: 4077'

Time On: 14:48 11/29 Time Off: 22:13 11/29

Time On Bottom: 17:17 11/29 Time Off Bottom: 19:57 11/29

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Mull Drilling
Company, Inc**
Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
30
2021

DST #2 **Formation: Muncie
Creek** **Test Interval: 4118 -
4138'** **Total Depth: 4138'**

Time On: 07:56 11/30 Time Off: 14:42 11/30
Time On Bottom: 10:52 11/30 Time Off Bottom: 12:32 11/30

Electronic Volume
Estimate:
23'

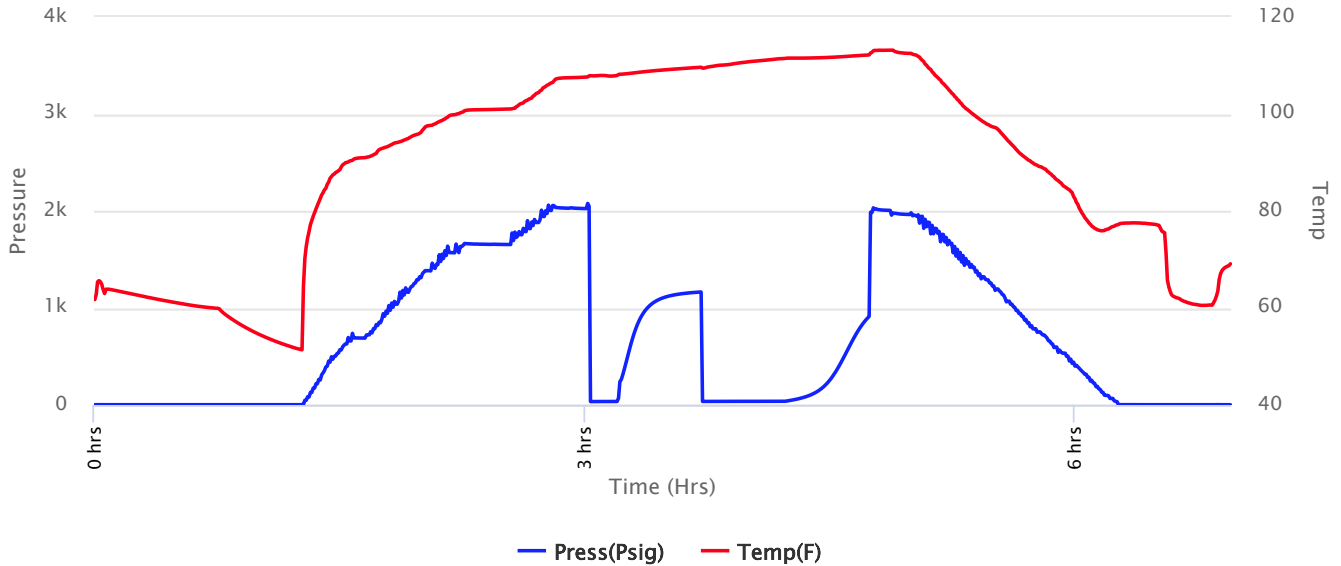
1st Open
Minutes: 10
Current Reading:
.8" at 10 min
Max Reading: .8"

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

2nd Open
Minutes: 30
Current Reading:
1.3" at 30 min
Max Reading: 1.3"

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

Inside Recorder





**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
30
2021

DST #2 **Formation: Muncie
Creek** **Test Interval: 4118 -
4138'** **Total Depth: 4138'**
Time On: 07:56 11/30 Time Off: 14:42 11/30
Time On Bottom: 10:52 11/30 Time Off Bottom: 12:32 11/30

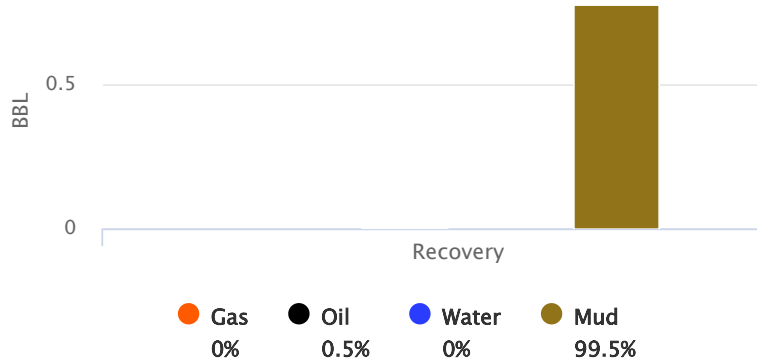
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
55	0.78265	M (trace O)	0	.5	0	99.5

Total Recovered: 55 ft
Total Barrels Recovered: 0.78265

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2024	PSI
Initial Flow	33 to 35	PSI
Initial Closed in Pressure	1164	PSI
Final Flow Pressure	35 to 39	PSI
Final Closed in Pressure	912	PSI
Final Hydrostatic Pressure	2021	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	21.7	%

GIP cubic foot volume: 0



**Company: Mull Drilling
Company, Inc**

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
30
2021

DST #2	Formation: Muncie Creek	Test Interval: 4118 - 4138'	Total Depth: 4138'
	Time On: 07:56 11/30	Time Off: 14:42 11/30	
	Time On Bottom: 10:52 11/30	Time Off Bottom: 12:32 11/30	

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1/2"
1st Close: No BB
2nd Open: Surface blow building to 1"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 6% Oil 0% Water 94% Mud



**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
30
2021

DST #2 Formation: Muncie Creek Test Interval: 4118 - 4138' Total Depth: 4138'

Time On: 07:56 11/30 Time Off: 14:42 11/30
Time On Bottom: 10:52 11/30 Time Off Bottom: 12:32 11/30

Down Hole Makeup

Heads Up: 16.29 FT	Packer 1: 4113 FT
Drill Pipe: 4101.72 FT <i>ID-3 1/2</i>	Packer 2: 4118 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4102.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4120 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 20	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 19 FT <i>4 1/2-FH</i>	



Company: Mull Drilling Company, Inc

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
November
30
2021

DST #2	Formation: Muncie Creek	Test Interval: 4118 - 4138'	Total Depth: 4138'
	Time On: 07:56 11/30	Time Off: 14:42 11/30	
	Time On Bottom: 10:52 11/30	Time Off Bottom: 12:32 11/30	

Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 50 **Filtrate:** 7.2 **Chlorides:** 2,000 ppm



**Company: Mull Drilling
Company, Inc**

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
 County: NESS
 State: KS
 Drilling Contractor: Duke Drilling
 Company, Inc - Rig 4
 Elevation: 2647 GL
 Field Name: Prairie Ridge North Ext
 Pool: WILDCAT
 Job Number: 536
 API #: 15-135-26129-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 November
30
 2021

DST #2 Formation: Muncie Test Interval: 4118 - Total Depth: 4138'
 Creek 4138'

Time On: 07:56 11/30 Time Off: 14:42 11/30
 Time On Bottom: 10:52 11/30 Time Off Bottom: 12:32 11/30

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Mull Drilling
Company, Inc**
Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
01
2021

DST #3 **Formation:**
Mississippian **Test Interval: 4498 -**
4550' **Total Depth: 4550'**

Time On: 22:20 12/01 Time Off: 07:39 12/02
Time On Bottom: 01:23 12/02 Time Off Bottom: 05:03 12/02

Electronic Volume
Estimate:
24'

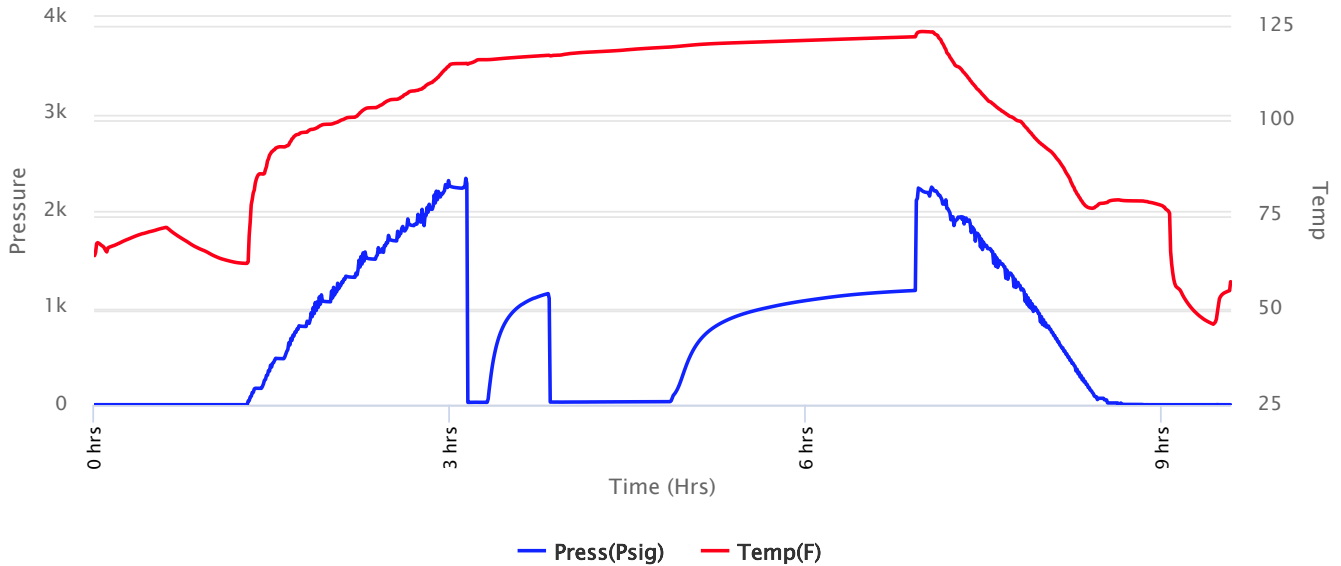
1st Open
Minutes: 10
Current Reading:
1.2" at 10 min
Max Reading: 1.2"

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

2nd Open
Minutes: 60
Current Reading:
.8" at 60 min
Max Reading: .8"

2nd Close
Minutes: 120
Current Reading:
0" at 120 min
Max Reading: 0"

Inside Recorder





**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
01
2021

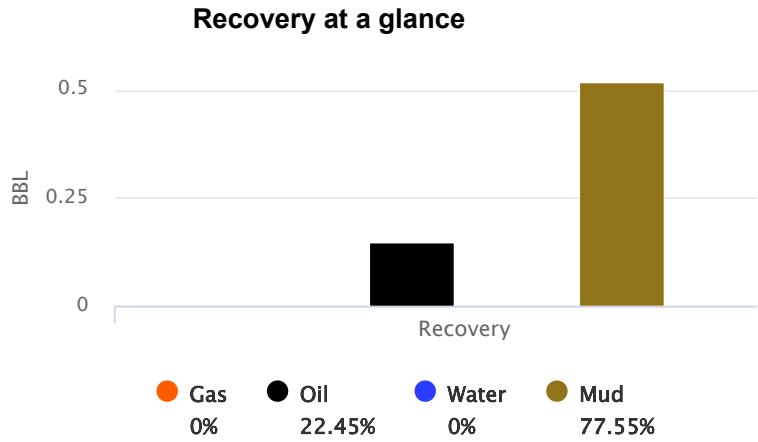
DST #3 **Formation: Mississippian** **Test Interval: 4498 - 4550'** **Total Depth: 4550'**
Time On: 22:20 12/01 Time Off: 07:39 12/02
Time On Bottom: 01:23 12/02 Time Off Bottom: 05:03 12/02

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
2	0.02846	CO	0	100	0	0
45	0.64035	SLOCM	0	19	0	81

Total Recovered: 47 ft
Total Barrels Recovered: 0.66881

Reversed Out
NO

Initial Hydrostatic Pressure	2242	PSI
Initial Flow	25 to 26	PSI
Initial Closed in Pressure	1147	PSI
Final Flow Pressure	28 to 33	PSI
Final Closed in Pressure	1179	PSI
Final Hydrostatic Pressure	2236	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	0.0	%



GIP cubic foot volume: 0



**Company: Mull Drilling
Company, Inc**
Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
01
2021

DST #3 **Formation:**
Mississippian **Test Interval: 4498 -** **Total Depth: 4550'**
4550'
Time On: 22:20 12/01 Time Off: 07:39 12/02
Time On Bottom: 01:23 12/02 Time Off Bottom: 05:03 12/02

BUCKET MEASUREMENT:

1st Open: Surface blow building to 1"
1st Close: No BB
2nd Open: Surface blow building to 1/2"
2nd Close: No BB

REMARKS:

Tool Sample: 0% Gas 11% Oil 0% Water 89% Mud



**Company: Mull Drilling
Company, Inc**
Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
01
2021

DST #3 **Formation:** **Test Interval: 4498 -** **Total Depth: 4550'**
Mississippian **4550'**
Time On: 22:20 12/01 Time Off: 07:39 12/02
Time On Bottom: 01:23 12/02 Time Off Bottom: 05:03 12/02

Down Hole Makeup

Heads Up: 11.14 FT	Packer 1: 4492.96 FT
Drill Pipe: 4476.53 FT <i>ID-3 1/2</i>	Packer 2: 4497.96 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4482.38 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4538 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 52.04	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 4 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 32.04 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc**

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
01
2021

DST #3 **Formation:**
Mississippian **Test Interval: 4498 -**
4550' **Total Depth: 4550'**
Time On: 22:20 12/01 Time Off: 07:39 12/02
Time On Bottom: 01:23 12/02 Time Off Bottom: 05:03 12/02

Mud Properties

Mud Type: Chemical **Weight:** 7.2 **Viscosity:** 50 **Filtrate:** 7.2 **Chlorides:** 2,400 ppm



**Company: Mull Drilling
Company, Inc**
Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
01
2021

DST #3 **Formation:**
Mississippian **Test Interval: 4498 -**
4550' **Total Depth: 4550'**

Time On: 22:20 12/01 Time Off: 07:39 12/02
Time On Bottom: 01:23 12/02 Time Off Bottom: 05:03 12/02

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
02
2021

DST #4 **Formation: Mississippian** **Test Interval: 4545 - 4560'** **Total Depth: 4560'**
Time On: 14:32 12/02 Time Off: 22:46 12/02
Time On Bottom: 17:00 12/02 Time Off Bottom: 20:05 12/02

Electronic Volume
Estimate:
579'

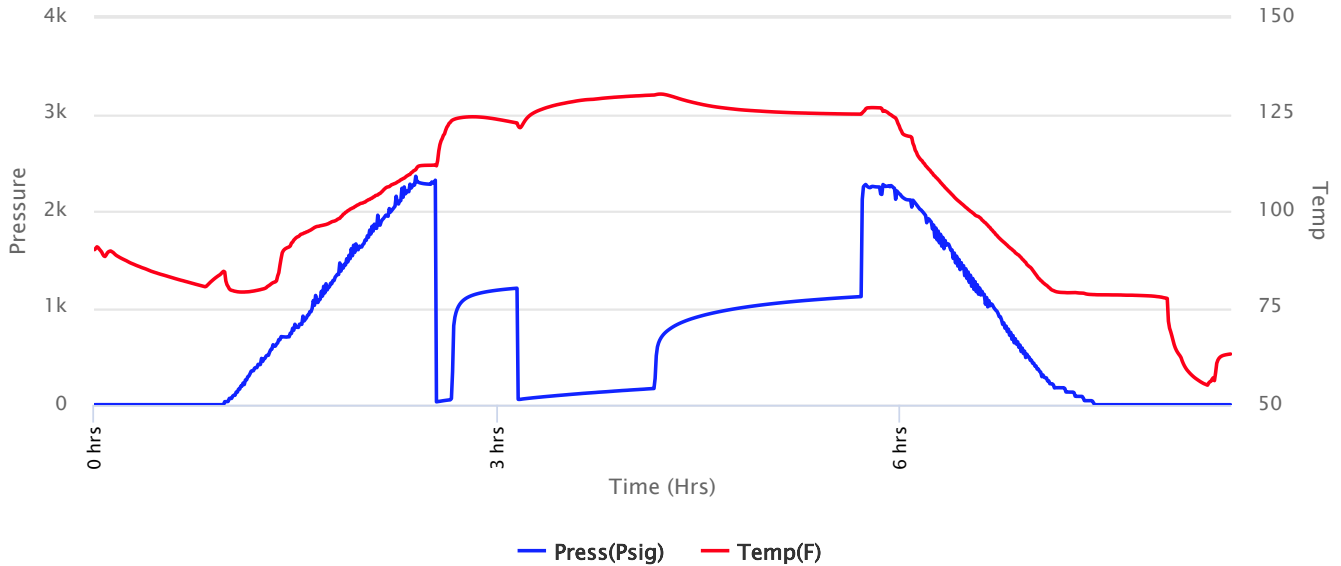
1st Open
Minutes: 5
Current Reading:
6.4" at 5 min
Max Reading: 6.4"

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

2nd Open
Minutes: 60
Current Reading:
41.4" at 60 min
Max Reading: 41.4"

2nd Close
Minutes: 90
Current Reading:
0" at 90 min
Max Reading: 0"

Inside Recorder





**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
02
2021

DST #4 **Formation:**
Mississippian **Test Interval: 4545 -**
4560' **Total Depth: 4560'**
Time On: 14:32 12/02 Time Off: 22:46 12/02
Time On Bottom: 17:00 12/02 Time Off Bottom: 20:05 12/02

Recovered

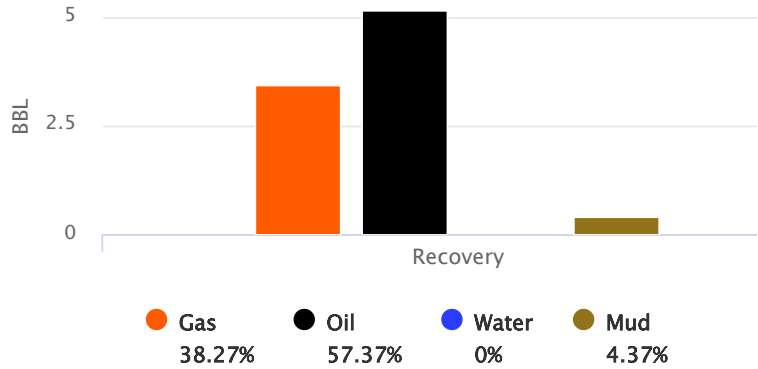
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
210	2.9883	G	100	0	0	0
310	4.4113	SLGCO	4	96	0	0
110	1.5653	SLGCMCO	17	58	0	25

Total Recovered: 630 ft
Total Barrels Recovered: 8.9649

Reversed Out
NO

Initial Hydrostatic Pressure	2286	PSI
Initial Flow	31 to 51	PSI
Initial Closed in Pressure	1203	PSI
Final Flow Pressure	56 to 168	PSI
Final Closed in Pressure	1116	PSI
Final Hydrostatic Pressure	2273	PSI
Temperature	131	°F
Pressure Change Initial Close / Final Close	7.2	%

Recovery at a glance



GIP cubic foot volume: 19.26252



**Company: Mull Drilling
Company, Inc**

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
02
2021

DST #4	Formation: Mississippian	Test Interval: 4545 - 4560'	Total Depth: 4560'
	Time On: 14:32 12/02	Time Off: 22:46 12/02	
	Time On Bottom: 17:00 12/02	Time Off Bottom: 20:05 12/02	

BUCKET MEASUREMENT:

1st Open: 1/4" blow building to 6 1/4"

1st Close: No BB

2nd Open: 1/4" blow building to BOB 14 1/2 min.

2nd Close: No BB

REMARKS:

Tool Sample: 5% Gas 53% Oil 0% Water 42% Mud

Gravity: 30.3 @ 60 °F



**Company: Mull Drilling
Company, Inc
Lease: JJ #1-6**

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
02
2021

DST #4 **Formation:** **Test Interval: 4545 -** **Total Depth: 4560'**
Mississippian **4560'**
Time On: 14:32 12/02 Time Off: 22:46 12/02
Time On Bottom: 17:00 12/02 Time Off Bottom: 20:05 12/02

Down Hole Makeup

Heads Up: 27.77 FT	Packer 1: 4540 FT
Drill Pipe: 4540.2 FT <i>ID-3 1/2</i>	Packer 2: 4545 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4529.42 FT
Collars: 0 FT <i>ID-2 1/4</i>	Bottom Recorder: 4547 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 15	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 14 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc**

Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
02
2021

DST #4 **Formation:**
Mississippian **Test Interval: 4545 -**
4560' **Total Depth: 4560'**
Time On: 14:32 12/02 Time Off: 22:46 12/02
Time On Bottom: 17:00 12/02 Time Off Bottom: 20:05 12/02

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 54 **Filtrate:** 8.0 **Chlorides:** 3,000 ppm



**Company: Mull Drilling
Company, Inc**
Lease: JJ #1-6

SEC: 6 TWN: 16S RNG: 26W
County: NESS
State: KS
Drilling Contractor: Duke Drilling
Company, Inc - Rig 4
Elevation: 2647 GL
Field Name: Prairie Ridge North Ext
Pool: WILDCAT
Job Number: 536
API #: 15-135-26129-00-00

Operation:
Uploading recovery &
pressures

DATE
December
02
2021

DST #4 **Formation:** **Test Interval: 4545 -** **Total Depth: 4560'**
Mississippian **4560'**
Time On: 14:32 12/02 Time Off: 22:46 12/02
Time On Bottom: 17:00 12/02 Time Off Bottom: 20:05 12/02

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D

Well Name: JJ #1-6
API: SE/4 NW/4_16S-26W-sec. 6
Location: SE/4 NW/4_16S-26W-sec. 6
License Number: 16-25/27-66
Spud Date: _____
Surface Coordinates: SE/4 NW/4_16S-26W-sec. 6
 1739' FNL & 2245' FWL
Region: NESS Cty.
Drilling Completed: _____

Bottom Hole Coordinates: _____
Ground Elevation (ft): 2647
K.B. Elevation (ft): 2658
Logged Interval (ft): 3800
To: RTD Total Depth (ft): _____
Formation: MS>MA>LKC
Type of Drilling Fluid: CHEMICAL MUD DISPLACED @
 Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: MULL DRILLING COMPANY
Address: MULL DRILLING COMPANY

GEOLOGIST

Name: Blake Miller
Company: Blake S. Miller - Wellsite & Consulting Geologist
Address: 235 N. Zelta
 Wichita, KS 67206

COMMENTS

Surface Casing: _____
Production Casing: _____

Deviation Surveys: _____
Pipe Strap @ Contractor Bit Record:
 1.) 7 7/8" PDC
 2.) 7 7/8" TRI-CONE

Gas Detector: _____
Mud System: _____
DSTs: _____

DSTs

DIAMOND TESTING - TIM K.
 1.) DST #1 LANSING (4025-4077) 10-30-60-60, (1) SURF<1.6", (2) SURF<6.8", 120' HWCM (33%W), [1043-1025] FP: 16-25/27-66
 2.) DST #2 MUNCIE CREEK (4118-4138) 10-30-30-30, (1) SURF<0.5", (2) SURF<1", 55' M w/ TR O (0.5%), [1164-912] FP: 33-35/35-39
 3.) DST #3 MISS (4498-4550) 10-30-60-120, (1) SURF<1", (2) SURF<1/2", 2' CO, 45' SOCM (19%O), [1147-1179] FP: 25-26/28-33

CREWS

TOOL PUSHER: HECTOR TORRES
DAYLIGHT: JAVY (DRILLER)
EVENING: ROSS (DRILLER)
MORNING: JOHN (DRILLER)

ROCK TYPES

Anhy Bent Brecc Cht Clyst Coal Congl Sdy dolo	Shy dolo Dol Gyp Sdy lmst Lmst Shylst Salt Shale	Stst Ss Black sh Gry sh Shale Shylstst Ss sh Ss 2	Shale 3 Silty dol Dol lmst Dol 2 Granite wash Lmst Calc dol Shale 3
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ACCESSORIES

MINERAL Anhy Arg Bent Bit Breccfrag Calc Carb Chtdk Chtit Dol Ferrpel Ferr Glau Gyp Marl Nodule Phos Pyr Salt Sandy Silt	Chlorite Sand Sily	FOSSIL Algae Amph Belm Biocist Brach Bryozoa Cephal Coral Crin Echin Fish Foram Fossil Gastro Oolite	STRINGER Anhy Arg Bent Coal Dol Gyp Ls Nlstrg Sstrg Carsh Clystn Dol	Pelec Pellet Pisolite Plant Strom Fuss Oomoldic	Grysh Grysl Lms Sandylms Sh Ststn	TEXTURE Boundst Chalky Crayln Earthy Finexin Lithogr Microxln Mudst Packst Wackest
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