KOLAR Document ID: 1597832

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

Name:	
Feet from North / South Li	
City: State: Zip:	∃ast
Contact Person:	ne of Section
Phone: () NE NW SE SW CONTRACTOR: License #	ne of Section
CONTRACTOR: License #	
Name:	
Name:	
Wellsite Geologist:	xxx.xxxxx)
Purchaser:	
Designate Type of Completion:	_
New Well Re-Entry Workover Field Name:	
Producing Formation:	
Gas DH EOR	
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? ☐ Yes ☐ No	
If Workover/Re-entry: Old Well Info as follows:	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 ☐ Drilling Fluid Management Plan	
Plug Back Liner Conv. to GSW Conv. to Producer (Data must be collected from the Reserve Pit)	
Chloride content:ppm Fluid volume:	bbls
Commingled 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 Quarter Sec. Twp. S. 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: 1597832

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 Survey								Datum			
Cores Taken Yes No Electric Log Run Yes No Geologist Report / Mud Logs Yes No List All E. Logs Run:											
			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	ad Paraant Additivas		
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	Type and Percent 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 Perforation Perforation Bridge Plug Bridge Plug 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	PETERSON TRUST 1-31
Doc ID	1597832

All Electric Logs Run

CDL/CNL		
DIL		
Micro		
Sonic		

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	PETERSON TRUST 1-31
Doc ID	1597832

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	213	Class A		3% cc, 2% gel
Production	7.875	5.5	14	3188	60/40 Poz	225	8% gel
Production	7.875	5.5	14	3188	Thick Set	100	

810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561



Cement or Acid Field Report						
Ticket No	5841					
Foreman	and Gardner					
Camp <u>Fucc</u>	ka					

API# 15-11	1-20553	ULI				L			
Date	Cust. iD#		e & Well Number		Section	Township	Range	County	State
8-19-21	1397	Peter	on Trust #1	1-31	31	165.	10 €.	Lyan	KS
Customer				Safety	Unit #	Dr	iver	Unit#	Driver
mall L	rellins	CAMPANY	, /NC.	Meeting	105		500		
Mailing Address	J	6		1 BG	112	Stc	UC		
1700 N. W	tections	PKWY B.	1 D6 1200	SM					
City		State	Zip Code	1					
Wichite	<u> </u>	KS	67206						
Job Type	ctuee	Hole Dep	oth <u> </u>	<u>B. </u>	Slurry Vol	5 Bb1	Tu	bing	
Casing Depth_	212.72'	6.L Hole Siz	ze <u>12½" </u>		Slurry Wt			ill Pipe	
Casing Size & V	vt. <u>8 % </u>	22# Cement L	eft in Casing _/5	,	Water Gal/SK			her	
Displacement_			ement PSI		Bump Plug to		BF	PM	
Remarks: 5	fety Mes	Sing: Rig	up to 8%"	Cosino	Break	Circulati	61 14/	10 BbI fre	sh water
Mixed 13	35 SKS	Class A (Cement w/	3% E	adz , 2%	Gel. 14	# Flesco	1/5K @ 159	Land wield
1.45 = 35	Bbl stur	re. Disola	ce w/ 131/2	Bbl	Presh was	ter Shu	t dama	Clar cos	or in
Good circu	Motion 6	Call From	es while con	nation	No cea	neat reti	irus to	Surface 1	Juit
30 mins	Ter reas	. + 10 1h	Like sur	lace	ul Waled	14		Call brock 1	?
consent K	7 7"	200	4 tag come	7.518 8 11.7. 1.2. 11.7.	37 000 031	$\frac{a_1 - a_2}{a_1 - a_2} = \frac{a_1}{a_2} = \frac{a_2}{a_2} = $	7 2 7	an set co	\$ ## 67 C
1 - 1	2. A	11.50 SOWAL	and the second	1 2 . 1	<u> </u>	<u> </u>	1 4004	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 1
P. H. B	to surface = 30 sks Class & Count in 1 3/2 casts, 2 /2 Get, 14 theret/sk, Well danding full of complete Rig down.						nding		
full of co	emat co	annulus o	1 X 18 cosing	Dot	2 complete	E. Kig de	torpi ·		<i>}</i>
•						-			

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	/	Pump Charge	890.00	890.00
C/67	60	Mileage	4.20	252.00
C200	// ₀ 5 3x3	Class A Coment	17.35	2862.75
C705	465"	Cocty 34	769	320.85
C206	310 4	Gel 2%	. 2.8	86.80
C209	4/08	Gel 2% Floral Yy#/sk	2.60	104.06
C108B	7.75 Tons	Ton Mileage - Yaslk Truck	1.40	657.00
		Thank You	Sub Total	5,167.40
		7.5 %	Less 5% Sales Tax	271.02 253.08
Authoriz	zation <u>by Ch</u> a		Total	5,149.46

810 E 7TH PO Box 92 EUREKA, KS 67045 (620) 583-5561



Cement or Acid Field Report
Ticket No. 5843
Foreman David Gardner
Camp Eureka

API # 15-111-20553 Cust. ID# Date Lease & Well Number Section Township Range County State 8-25-21 1397 Peterson Trust #1-31 16 S. 10 E Customer Safety Unit# Driver Unif# Driver Mull Drilling Company, INC Meeting 105 Jason DHBW 113 Broker Mailing Address Kevin 115 1700 N. Waterfront PKWY BLOG 1200 Water TRK City State Zip Code KS Wichita 67206

 Job Type Longstring
 Hole Depth 3200 K.B.
 Slurry Vol. 33Bb1 Tail
 Tubing

 Casing Depth 3/88 G.L.
 Hole Size 7% Slurry Wt. 23, 25-79:1
 Drill Pipe

 Casing Size & Wt. 5½ 1/2"
 Cement Left in Casing 4/1 S.T.
 Water Gal/SK
 Other

 Displacement 78 1/2 Bb1
 Displacement PSI 1/00
 Bump Plug to 1/400 PSI
 BPM

Remarks: Safety Meeting: 51/2" 14" Used casing set @ 3188'. Rig up to 51/2" casing w/ Rotating cement swivel. Break circulation w/ 10 Bbl KCL water. Mixed 225 sks 60/40 Pozmix Cement w/8% Gel. 14%, 2" Phenoseal/sk @ 13 "gal, vield 1.60 = (04 Bbl shurry. Tail in w/ 100 sks Thick Set Cement w/5" Kolseal/sk, 2" Phenoseal/sk, 14% CFL:115 @ 13.8 "gal, vield 1.85 = 33 Bbl shurry. Wash out Pump & lines. Shut down Release 51/2" Latch Down Plug. Start Rotating casing. Displace plug to seat w/78"/2 Bbl fresh water. (KCL in 15th 40 Bbl). Final pumping pressure of 1000 PSI. Bump plug to 1400 PSI. Wait 2 mins. helpase pressure. Float & Plug held good. Good circulation @ all times while cementing. Job complete. Rig down.

Plug R.H. + M.H.

Centraliz	ers on # 1, 2	3,4,5,6,8,10 Basket on top of #7.		
Code	Qty or Units	Description of Product or Services	Unit Price	Total
C102	/	Pump Charge	1100.00	1100.00
C107	60	Mileage	4.20	252.00
C203	225 SKS	100/40 Poznix Cement	14.75	3318.75
(206	1550#	Gel 8%) Lead Cement	.28	434.00
C208	4/50#	Phenoseal 2 1/sk	1.45	652.50
CZII	50 [#]	CFL-115 1/4%	12.10	605.00
C201	100 SKS	Thick Set Cement	22.55	2255.00
C207	500 [#]	Kolseal 5H/sk Tail Cement	,52	260.00
CZ08	200#	Phenoseal 2 sk	1,45	290.00
C211	25 [±]	CFL-115 1/4%	12.10	302.50
CroxB	19.17 Tons	Ton Mileage - Bulk Trucks	1.40	1274,28
C11.3	6 HRS	80 Bbl Vac Truck	90.00 / HR	540.00
6224	3300 Gals	City Water	11,00/1000	36.30
C222	7 Ga15	KCL (10 Bb) Ahead water & 1st 40 Bb) Displacement water)	30.00	210.00
C661	/	5/2" AFU Float Shoe	340.00	340.00
CG81	1	5/2" Flogt Collar Body Only w/Latch Down Insert	237.00	237.00
C421	1	5/2" Latch Down Plug	266.00	266.00
C504	8	5/2" x 7% Centralizers	55.00	440.00
C604	/	5/2" Cement Basket	260.00	260.00
C781	/	5/2" Stop Collar	35.00	35.00
C//2 Authoriz	ration	Rotating Cement Swivel	105.00	105.00
Audionz		Title	545 Total	13,213,33

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office. 753.53



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC Rig #1 Elevation: 1341 Est Field Name: Wildcat

Pool: Wildcat Job Number: 507

API #: 15-111-20553-00-00

DATE August

22 2021 **DST #1** Formation: Test Interval: 2890 -Total Depth: 2895'

2895'

Time On: 15:11 08/22 Time Off: 21:45 08/22

Time On Bottom: 17:43 08/22 Time Off Bottom: 19:58 08/22

Electronic Volume Estimate:

2'

1st Open Minutes: 5 **Current Reading:** .1" at 5 min

Max Reading: .1"

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

Max Reading: 0"

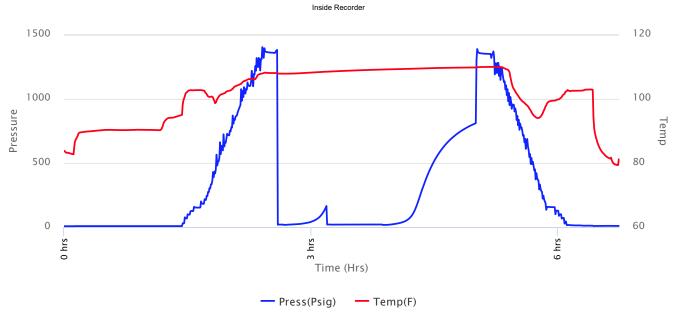
2nd Open Minutes: 40 **Current Reading:** 0" at 40 min

Max Reading: 0"

2nd Close Minutes: 60 **Current Reading:**

0" at 60 min

Max Reading: 0"





Uploading recovery &

pressures

Company: Mull Drilling
Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC Rig #1

Elevation: 1341 Est Field Name: Wildcat Pool: Wildcat Job Number: 507

API #: 15-111-20553-00-00

<u>DATE</u> August

22

2021

DST #1

Formation:

Test Interval: 2890 -

Total Depth: 2895'

2895'

Time On: 15:11 08/22

Time Off: 21:45 08/22

Time On Bottom: 17:43 08/22 Time Off Bottom: 19:58 08/22

Recovered

Foot BBLS 2 0.00984

Description of Fluid
M (trace O)

Gas %

0

<u>Oil %</u> .1 Water % 0 Mud % 99.9

Total Recovered: 2 ft

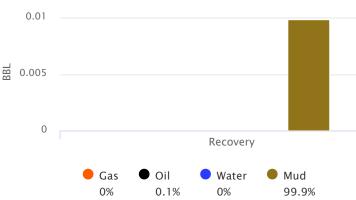
Total Barrels Recovered: 0.00984

Reversed Out NO

Initial Hydrostatic Pressure	1365	PSI
Initial Flow	19 to 20	PSI
Initial Closed in Pressure	165	PSI
Final Flow Pressure	21 to 20	PSI
Final Closed in Pressure	806	PSI
Final Hydrostatic Pressure	1357	PSI
Temperature	110	°F
Pressure Change Initial	0.0	%

Close / Final Close

Recovery at a glance



GIP cubic foot volume: 0



Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC Rig #1

Elevation: 1341 Est Field Name: Wildcat Pool: Wildcat Job Number: 507

API #: 15-111-20553-00-00

DATE August 22 DST #1 Formation: Test Interval: 2890 - Total Depth: 2895'

2895'

Time On: 15:11 08/22 Time Off: 21:45 08/22

Time On Bottom: 17:43 08/22 Time Off Bottom: 19:58 08/22

2021 BUCKET MEASUREMENT:

1st Open: Weak surface Blow built built to a strong surface blow in 5 minutes.

1st Close: No Return Blow.

2nd Open: No Blow over 40 minutes.

2nd Close: No Return Blow

REMARKS:

Tool Sample: 0% Gas .1% Oil 0% Water 99.9% Mud



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC Rig #1

Elevation: 1341 Est Field Name: Wildcat Pool: Wildcat Job Number: 507

API #: 15-111-20553-00-00

DATE August 22

2021

DST #1 Formation: Test Interval: 2890 - Total Depth: 2895'

2895'

Time On: 15:11 08/22 Time Off: 21:45 08/22

Time On Bottom: 17:43 08/22 Time Off Bottom: 19:58 08/22

Down Hole Makeup

Heads Up: 30.57 FT Packer 1: 2885 FT

Drill Pipe: 2583.26 FT **Packer 2:** 2890 FT

ID-3 1/2 Top Recorder: 2874.42 FT

Weight Pipe: 0 FT

Bottom Recorder: 2893 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: 304.74 FT

ID-2 1/4

Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Jars Safety Joint

Total Anchor: 5

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 1 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 3 FT

4 1/2-FH



Company: Mull Drilling

Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC Rig #1 Elevation: 1341 Est Field Name: Wildcat

Pool: Wildcat Job Number: 507

API #: 15-111-20553-00-00

DATE August

22 2021

DST #1 Formation:

Test Interval: 2890 -

Total Depth: 2895'

2895'

Time On: 15:11 08/22 Tin

Time Off: 21:45 08/22

Time On Bottom: 17:43 08/22 Time Off Bottom: 19:58 08/22

Mud Properties

Mud Type: Chem. Weight: 9 Viscosity: 35 Filtrate: 13.6 Chlorides: 530 ppm



Company: Mull Drilling

Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC Rig #1 Elevation: 1341 Est Field Name: Wildcat Pool: Wildcat

Job Number: 507

API #: 15-111-20553-00-00

DATE
August
22
2021

DST #1 Formation:

Test Interval: 2890 -

Total Depth: 2895'

2895'

Time On: 15:11 08/22 Time Off: 21:45 08/22

Time On Bottom: 17:43 08/22 Time Off Bottom: 19:58 08/22

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open				
Time	Orifice	PSI	MCF/D	



Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507 API #: 15-111-20553-00-00

Operation: Uploading recovery & pressures

> **DATE** August 23

DST #2 Formation: Viola Test Interval: 2991 -

Total Depth: 3004'

3004'

Time On: 08:45 08/23 Time Off: 15:28 08/23

Time On Bottom: 10:35 08/23 Time Off Bottom: 13:10 08/23

Electronic Volume Estimate:

2021

271'

1st Open Minutes: 5 **Current Reading:** 1.3" at 5 min

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

Current Reading: 11.8" at 60 min

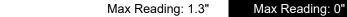
2nd Open

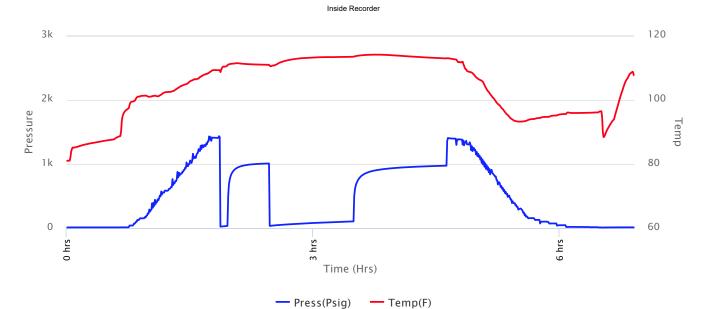
Minutes: 60

Max Reading: 11.8"

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

Max Reading: 0"







pressures

Company: Mull Drilling Company, Inc Lease: Peterson Trust #1-31

Operation: Uploading recovery & SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

DATE August 23 2021

Total Depth: 3004' DST #2 Formation: Viola Test Interval: 2991 -

3004'

Time On: 08:45 08/23 Time Off: 15:28 08/23

Time On Bottom: 10:35 08/23 Time Off Bottom: 13:10 08/23

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	Oil %	Water %	Mud %
230	1.1316	Ο	0	100	0	0
10	0.0492	HMCO	0	60	0	40

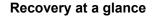
Total Recovered: 240 ft

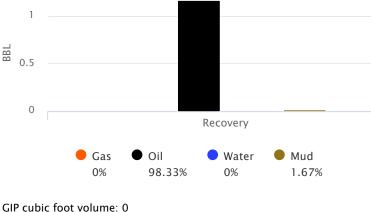
Total Barrels Recovered: 1.1808

Reversed Out
NO

Initial Hydrostatic Pressure	1410	PSI
Initial Flow	23 to 33	PSI
Initial Closed in Pressure	1008	PSI
Final Flow Pressure	35 to 103	PSI
Final Closed in Pressure	974	PSI
Final Hydrostatic Pressure	1401	PSI
Temperature	115	°F
Pressure Change Initial	3.4	%
Close / Final Close		

Gas







Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507 API #: 15-111-20553-00-00

DATEAugust **23**2021

DST #2 Formation: Viola Test Interval: 2991 - Total Depth: 3004'

3004'

Time On: 08:45 08/23 Time Off: 15:28 08/23

Time On Bottom: 10:35 08/23 Time Off Bottom: 13:10 08/23

BUCKET MEASUREMENT:

1st Open: Surface Blow built to 1-1/4" over 5 minutes.

1st Close: No Return Blow over 30 minutes. 2nd Open: BoB in 44 minutes 15 seconds. 2nd Close: No Return Blow over 60 minutes.

REMARKS:

Tool Sample: 0% Gas 30% Oil 0% Water 70% Mud

Gravity: 23.2 @ 60 °F



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507

API #: 15-111-20553-00-00

DATE August 23

2021

DST #2 Formation: Viola Test Interval: 2991 -Total Depth: 3004'

3004'

Time On: 08:45 08/23 Time Off: 15:28 08/23

Time On Bottom: 10:35 08/23 Time Off Bottom: 13:10 08/23

Down Hole Makeup

Heads Up: 22.99 FT Packer 1: 2986 FT

Drill Pipe: 2676.68 FT Packer 2: 2991 FT

ID-3 1/2 Top Recorder: 2975.42 FT

Weight Pipe: 0 FT **Bottom Recorder:** 3002 FT

ID-2 7/8 Well Bore Size: 7 7/8

Collars: 304.74 FT **Surface Choke:** 1" ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars Safety Joint

Total Anchor: 13

Anchor Makeup

1 FT

Packer Sub: Perforations: (top): 9 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 3 FT

4 1/2-FH



Company: Mull Drilling

Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507 API #: 15-111-20553-00-00

DATEAugust **23**2021

DST #2 Formation: Viola Test Interval: 2991 - Total Depth: 3004'

3004'

Time On: 08:45 08/23 Time Off: 15:28 08/23

Time On Bottom: 10:35 08/23 Time Off Bottom: 13:10 08/23

Mud Properties

Mud Type: Chem. Weight: 9.0 Viscosity: 47 Filtrate: 10.6 Chlorides: 700 ppm



Uploading recovery &

pressures

Company: Mull Drilling
Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat

Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

DATEAugust **23**2021

DST #2 Formation: Viola Test Interval: 2991 - Total Depth: 3004'

3004'

Time On: 08:45 08/23 Time Off: 15:28 08/23

Time On Bottom: 10:35 08/23 Time Off Bottom: 13:10 08/23

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open				
CF/D				



Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507 API #: 15-111-20553-00-00

Operation: Uploading recovery & pressures

> **DATE** August 24 2021

DST #3 Formation: Viola

Test Interval: 3024 -

Total Depth: 3090'

3090'

Time On: 00:34 08/24 Time Off: 07:10 08/24

Time On Bottom: 02:41 08/24 Time Off Bottom: 04:46 08/24

Electronic Volume Estimate: 2772'

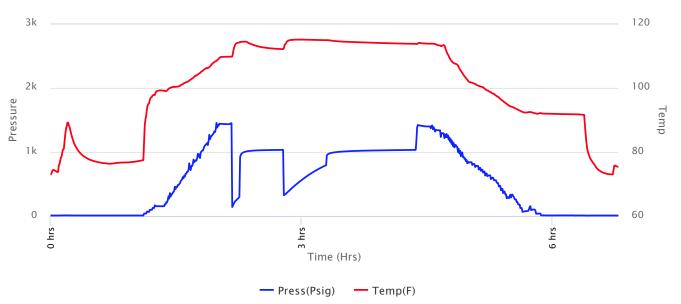
1st Open Minutes: 5 **Current Reading:** 52.4" at 5 min Max Reading: 52.4"

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

2nd Open Minutes: 30 **Current Reading:** 344.6" at 30 min Max Reading: 344.6"

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

Inside Recorder





Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

Operation: Uploading recovery & pressures

DATE	
August	
24	
2021	

Total Depth: 3090' DST #3 Formation: Viola Test Interval: 3024 -

3090'

Time On: 00:34 08/24 Time Off: 07:10 08/24

Time On Bottom: 02:41 08/24 Time Off Bottom: 04:46 08/24

Recovered

<u>Foot</u>	<u>BBLS</u>	Description of Fluid	<u>Gas %</u>	<u>Oil %</u>	Water %	<u>Mud %</u>
378	5.37894	SLOCHWCM	0	10	30	60
315	4.48245	SLOCHMCW	0	5	55	40
252	3.58596	SLOCSLMCW	0	5	82	13
504	7.1277906	SLOCSLMCW	0	1	93	6
290	1.4268	SLOCSLMCW	0	1	96	3
10	0.0492	SLOCM	0	1	0	99

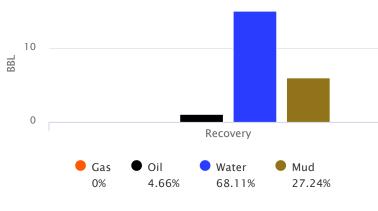
Total Recovered: 1749 ft

Total Barrels Recovered: 22.0511406

Reversed Out
NO

Initial Hydrostatic Pressure	1439	PSI
Initial Flow	142 to 297	PSI
Initial Closed in Pressure	1033	PSI
Final Flow Pressure	362 to 789	PSI
Final Closed in Pressure	1033	PSI
Final Hydrostatic Pressure	1410	PSI
Temperature	115	°F
Pressure Change Initial	0.1	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Operation:
Uploading recovery & pressures

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507

API #: 15-111-20553-00-00

DATE August 24 DST #3 Formation: Viola Test Interval: 3024 - Total Depth: 3090'

3090'

Time On: 00:34 08/24 Time Off: 07:10 08/24

Time On Bottom: 02:41 08/24 Time Off Bottom: 04:46 08/24

2021 BUCKET MEASUREMENT:

1st Open: BoB in 41 seconds.

1st Close: No Return Blow over 30 min.

2nd Open: BoB in 52 seconds.

2nd Close: No Return Blow over 60 min.

REMARKS:

Tool Sample: 0% Gas 10% Oil 75% Water 15% Mud

Ph: 7

Measured RW: .5 @ 76 degrees °F

RW at Formation Temp: 0.34 @ 115 °F

Chlorides: 18000 ppm



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507

API #: 15-111-20553-00-00

DATE August

24

2021

DST #3 Formation: Viola Test Interval: 3024 - Total Depth: 3090'

3090'

Time On: 00:34 08/24 Time Off: 07:10 08/24

Time On Bottom: 02:41 08/24 Time Off Bottom: 04:46 08/24

Down Hole Makeup

Heads Up: 52.53 FT **Packer 1:** 3018.53 FT

Drill Pipe: 2738.75 FT **Packer 2:** 3023.53 FT

ID-3 1/2 Top Recorder: 3007.95 FT

Weight Pipe: FT Bottom Recorder: 3088 FT

ID-2 7/8

Collars: 304.74 FT Well Bore Size: 7 7/8

ID-2 1/4 Surface Choke: 1"

Test Tool: 33.57 FT Bottom Choke: 5/8"

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 66.47

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 30 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 31.47 FT

ID-3 1/2

Change Over: .5 FT

Perforations: (below): 3 FT

4 1/2-FH



Company: Mull Drilling

Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

Total Depth: 3090'

DATEAugust **24**2021

DST #3 Formation: Viola Test Interval: 3024 -

3090'

Time On: 00:34 08/24 Time Off: 07:10 08/24

Time On Bottom: 02:41 08/24 Time Off Bottom: 04:46 08/24

Mud Properties

Mud Type: Chem. Weight: 9.0 Viscosity: 47 Filtrate: 10.6 Chlorides: 700 ppm



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat

Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

DATEAugust **24**2021

DST #3 Formation: Viola Test Interval: 3024 - Total Depth: 3090'

3090'

Time On: 00:34 08/24 Time Off: 07:10 08/24

Time On Bottom: 02:41 08/24 Time Off Bottom: 04:46 08/24

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open						
Time	Orifice	PSI	MCF/D			



Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507 API #: 15-111-20553-00-00

Operation:
Uploading recovery & pressures

DATE August 24

2021

DST #4 Formation: Simpson snd.

Test Interval: 3089 -

Total Depth: 3110'

3110'

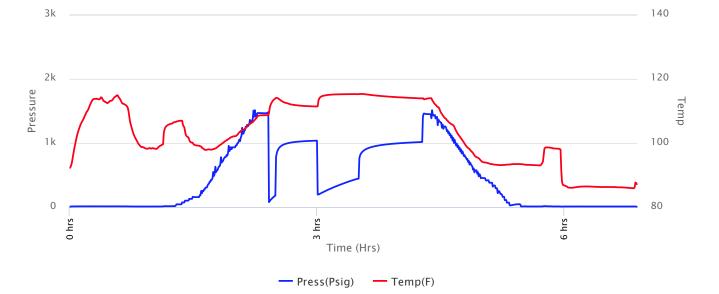
Time On: 14:08 08/24 Time Off: 20:51 08/24

Time On Bottom: 16:30 08/24 Time Off Bottom: 18:20 08/24

Electronic Volume Estimate: 1161' 1st Open Minutes: 5 Current Reading: 23.7" at 5 min Max Reading: 23.7" 1st Close Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"

2nd Open Minutes: 30 Current Reading: 111.3" at 30 min Max Reading: 111.3" 2nd Close Minutes: 45 Current Reading: 0" at 45 min Max Reading: 0"

Inside Recorder





Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

Operation:
Uploading recovery & pressures

DATE	
August	
24	
2021	

DST #4	Formation: Simpson	Test Interval: 3089 -	Total Depth: 3110'
	snd.	3110'	

Time On: 14:08 08/24 Time Off: 20:51 08/24

Time On Bottom: 16:30 08/24 Time Off Bottom: 18:20 08/24

Recovered

<u>Foot</u>	<u>BBLS</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
229	3.25867	SLOCSLWCM	0	1	15	84
189	2.68947	SLMCW (trace O)	0	.1	86.9	13
542	4.9686306	SLMCW	0	0	97	3
10	0.0492	WCM	0	0	25	75

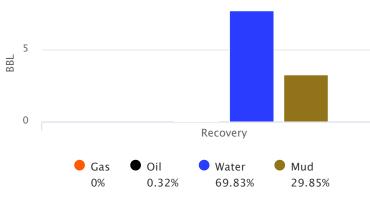
Total Recovered: 970 ft

Total Barrels Recovered: 10.9659706

Reversed	Out
NO	

Initial Hydrostatic Pressure	1465	PSI
Initial Flow	77 to 172	PSI
Initial Closed in Pressure	1037	PSI
Final Flow Pressure	196 to 444	PSI
Final Closed in Pressure	1015	PSI
Final Hydrostatic Pressure	1452	PSI
Temperature	116	°F
Pressure Change Initial	2.1	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 0



Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

DATE August 24 2021 DST #4 Formation: Simpson Test Interval: 3089 - Total Depth: 3110' snd. 3110'

Time On: 14:08 08/24 Time Off: 20:51 08/24

Time On Bottom: 16:30 08/24 Time Off Bottom: 18:20 08/24

BUCKET MEASUREMENT:

1st Open: B.o.B. in 2 minutes 13 seconds. 1st Close: No Return Blow over 30 minutes. 2nd Open: BoB in 2 minutes 37 seconds. 2nd Close: No Return Blow over 45 minutes.

REMARKS:

Tool Sample: 0% Gas 5% Oil 90% Water 5% Mud

Ph: 7

Measured RW: 2 @ 80 degrees °F

RW at Formation Temp: 1.414 @ 116 °F

Chlorides: 12000 ppm



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507 API #: 15-111-20553-00-00

DATE August 24

2021

DST #4 Formation: Simpson Test Interval: 3089 -Total Depth: 3110' snd.

3110'

Time On: 14:08 08/24 Time Off: 20:51 08/24

Time On Bottom: 16:30 08/24 Time Off Bottom: 18:20 08/24

Down Hole Makeup

Heads Up: 49.18 FT Packer 1: 3084 FT

Drill Pipe: 2800.87 FT Packer 2: 3089 FT

ID-3 1/2 Top Recorder: 3073.42 FT

Weight Pipe: 0 FT **Bottom Recorder:** 3108 FT

ID-2 7/8

Well Bore Size: 7 7/8 Collars: 304.74 FT

Surface Choke: 1" ID-2 1/4

Bottom Choke: 5/8" **Test Tool:** 33.57 FT

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor: 21

Anchor Makeup

1 FT

Packer Sub:

Perforations: (top): 17 FT

4 1/2-FH

Change Over: 0 FT

Drill Pipe: (in anchor): 0 FT

ID-3 1/2

Change Over: 0 FT

Perforations: (below): 3 FT

4 1/2-FH



Company: Mull Drilling

Company, Inc

DST #4

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT

Job Number: 507

API #: 15-111-20553-00-00

DATEAugust **24**2021

Formation: Simpson snd.

Test Interval: 3089 -

Total Depth: 3110'

3110'

Time On: 14:08 08/24 Time Off: 20:51 08/24

Time On Bottom: 16:30 08/24 Time Off Bottom: 18:20 08/24

Mud Properties

Mud Type: Chem. Weight: 9.0 Viscosity: 47 Filtrate: 10.6 Chlorides: 700 ppm



Company: Mull Drilling

Company, Inc

Lease: Peterson Trust #1-31

SEC: 31 TWN: 16S RNG: 10E

County: LYON State: Kansas

Drilling Contractor: Lighthouse Drilling

LLC - Rig #1 Elevation: 1341 EGL Field Name: Wildcat Pool: WILDCAT Job Number: 507

API #: 15-111-20553-00-00

PSI

MCF/D

DATEAugust **24**2021

DST #4 Formation: Simpson snd.

Test Interval: 3089 -

Total Depth: 3110'

d. 3110'

Time On: 14:08 08/24 Time Off: 20:51 08/24

Time On Bottom: 16:30 08/24 Time Off Bottom: 18:20 08/24

Gas Volume Report

1st Open			2nd Ope			
Time	Orifice	PSI	MCF/D	Time	Orifice	P

