KOLAR Document ID: 1471045

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:			est
Address 2:		Feet from North / South Line of Sect	tion
City: State:	++	Feet from East / West Line of Sect	tion
Contact Person:		Footages Calculated from Nearest Outside Section Corner:	
Phone: ()		□NE □NW □SE □SW	
CONTRACTOR: License #		GPS Location: Lat:, Long:	
Name:		(e.g. xx.xxxxx) (e.gxxx.xxxxx)	
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84	
Purchaser:		County:	
Designate Type of Completion:		Lease Name: Well #:	—
New Well Re-Entr	y Workover	Field Name:	
] SWD	Producing Formation:	
Gas DH] SWB] EOR	Elevation: Ground: Kelly Bushing:	
	GSW	Total Vertical Depth: Plug Back Total Depth:	
CM (Coal Bed Methane)	_	Amount of Surface Pipe Set and Cemented at: F	eet
	ol., etc.):	Multiple Stage Cementing Collar Used? Yes No	
If Workover/Re-entry: Old Well Info as		If yes, show depth set: F	eet
Operator:		If Alternate II completion, cement circulated from:	
Well Name:		feet depth to:w/sx c	cmt.
Original Comp. Date:			
Deepening Re-perf. Plug Back Liner	Conv. to EOR Conv. to SWD Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)	
□ O		Chloride content:ppm Fluid volume:b	bls
_ •	rmit #:	Dewatering method used:	
	rmit #: rmit #:		
	rmit #:	Location of fluid disposal if hauled offsite:	
	rmit #:	Operator Name:	
_ 33		Lease Name: License #:	
Spud Date or Date Reached	Completion Data co	Quarter Sec TwpS. R	/est
Recompletion Date	d TD Completion Date or 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 Approved by: Date:

KOLAR Document ID: 1471045

Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	rpS	S. R	Eas	st West	County:					
	l, flowing an	d shut-in pres	sures, wh	ether shut-in pre	ssure reached	static	level, hydrostat	ic pressures, bo		val tested, time tool erature, fluid recovery,
Final Radioactivi files must be sub							gs must be emai	led to kcc-well-l	ogs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests (Attach Addit)		Yes No		Lo		n (Top), Depth a		Sample
Samples Sent to	Geological	Survey		Yes No		Name			Тор	Datum
Cores Taken Electric Log Run Geologist Report List All E. Logs F	t / Mud Log	s		Yes No Yes No Yes No						
			Rep	CASING	RECORD [Nev		on, etc.		
Purpose of St	tring	Size Hole Drilled		Size Casing let (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING /	SQUE	EEZE RECORD		<u>'</u>	
Purpose: Perforate		Depth Top Bottom	Тур	pe of Cement	# Sacks Use	ed		Type and	Percent Additives	
Protect Ca										
Plug Off Z										
Did you perform Does the volume Was the hydraul	e of the total	base fluid of the	hydraulic	fracturing treatment		-	Yes S? Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Produ Injection:	ction/Injectio	n or Resumed P	roduction/	Producing Meth	od:		Gas Lift O	ther <i>(Explain)</i>		
Estimated Product Per 24 Hours		Oil	Bbls.		Mcf	Water			Gas-Oil Ratio	Gravity
DISPO	OSITION OF	GAS:		N	METHOD OF CO	MPLET	ΓΙΟΝ:			DN INTERVAL: Bottom
Vented		Used on Lease		Open Hole		Dually (Submit A		nmingled nit ACO-4)	Тор	BOLLOTTI
,	ed, Submit AC							·		
Shots Per Foot	Perforation Top	on Perfor Bott		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeeze and of Material Used)	
TUBING RECORI	D: S	Size:	Set A	: -	Packer At:					

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BEOUGHER 1-30
Doc ID	1471045

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BEOUGHER 1-30
Doc ID	1471045

Tops

Name	Тор	Datum
Anhydrite	2168	+ 534
B/Anhydrite	2208	+ 494
Heebner	3858	- 1156
Lansing	3898	- 1196
Stark	4125	- 1423
Marmaton	4235	- 1533
Pawnee	4326	- 1624
Ft. Scott	4383	- 1681
Cherokee	4409	- 1707
Mississippian	4473	- 1771

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BEOUGHER 1-30
Doc ID	1471045

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	23	209	Class A	3% cc, 2% gel



Customer: Mull	Well:	Beougher 1-30	Ticket:	ICT2036
City, State: Gove KS	County:	Gove	Date:	5/31/2019
Field Rep: Scott	S-T-R:	31-7-54	Service:	Cement

nation	Downhole Infor
12.13	Hole Size:
209	Hole Depth:
8.625	Casing Size:
209	Casing Depth:
24	Casing weight
	Depth:
	Tool / Packer:
	Depth:
12	Displacement:

14.8 #/sx	Weight:
140 171 34	
6 7/8 gal / sx	Water / Sx:
1 2/5 ft³ / sx	Yield:
0.0637	Bbls / Ft.:
209 ft	Depth:
bbls	Volume:
125% %	Excess:
41 bbls	Total Slurry:
165 sx	Total Sacks:

C	ement Blend	
Product	%	#
Class A	100.0	15510
Gel	2.0	465
CaCI	3.0	310
Metso		
KolSeal		
PhenoSeal		
Salt		
	Total	16,285

												Total	16,285
TIME	RATE	PSI	BBLs		REMARKS		TIME	RATE	PSI	BBLs		REMARKS	
3:00 PM				Arr	ive on location								
3:05 PM				s	afety meeting								
3:10 PM				Rig	ı up equipment								
4:15 PM					sing on bottom								
4:30 PM				F	Rig circulates								
4:35 PM	3.0	200.0	1.0	1655x	Water ahead	CLA	5 A						
4:38 PM	5.0	250.0	41.0		cks at14.8ppg,1.41								***************************************
4:45 PM	5.0	250.0	12.0		Displace								
4:50 PM		150.0			Shut in well								
4:55 PM				Was	h up equipment								
5:20 PM				D	epart location								
						· • • • • • • • • • • • • • • • • • • •							
			·······	1	$ \eta$		- 1			 			
				Hug	Dono	2	00 for	r					
										ļ			
										 			
											I		
										[[[[· · · · · · · · · · · · · · · · · · ·	
										ļ	<u> </u>		
							<u> </u>				<u> </u>		
		CREW			UNIT						SUMMAR	Ý	0.0
Cen	nenter:		Dane Refzloff		78			Average Rate		Average Pressure		Total Fluid	
Pump Op			Josh Mo		231			4.333333		212.50 psi		54.00 bbls	
	ulk #1:		hael Reb		181/254	***************************************							
	ulk #2:						1						



Lease: Beougher #1-30

Operation:

Test Complete

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 8 Elevation: 2697 GL Field Name: Wildcat Pool: Wildcat Job Number: 351 API #: 15-063-222358

DATE

June

05 2019 **DST #1** Formation: Lans H Test Interval: 4030 -Total Depth: 4070'

4070'

Time On: 01:33 06/05 Time Off: 09:50 06/05

Time On Bottom: 04:06 06/05 Time Off Bottom: 07:41 06/05

Electronic Volume Estimate:

187'

1st Open Minutes: 5 **Current Reading:**

2.25" at 5 min

Max Reading: 2.25"

1st Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

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

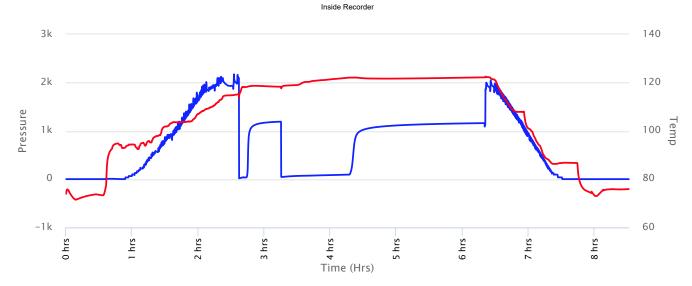
8.1" at 60 min

Max Reading: 8.1"

2nd Close Minutes: 120 **Current Reading:**

0" at 120 min

Max Reading: 0"



Temp(F)

Press(Psig)



Operation:

Test Complete

Lease: Beougher #1-30

Drilling Contractor: Duke Drilling Company, Inc - Rig 8 Elevation: 2697 GL Field Name: Wildcat

County: GOVE State: Kansas

SEC: 30 TWN: 13S RNG: 27W

Pool: Wildcat Job Number: 351 API #: 15-063-222358

DATE June 05 2019

Formation: Lans H Test Interval: 4030 -Total Depth: 4070' 4070'

Time On: 01:33 06/05 Time Off: 09:50 06/05

Time On Bottom: 04:06 06/05 Time Off Bottom: 07:41 06/05

Recovered

<u>Foot</u>	BBLS	Description of Fluid	<u>Gas %</u>
59	0.83957	G	100
35	0.49805	Ο	0
158	1.1545081	SLGCSLOCSLMCW	1

DST #1

Gas %	Oil %	Water %	Mud %
100	0		
0	100	0	0
1	8	73	18

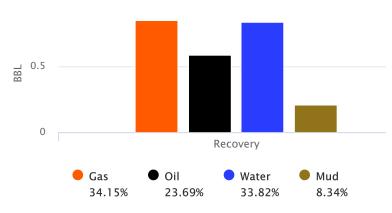
Total Recovered: 252 ft

Total Barrels Recovered: 2.4921281

Reversed Out
NO

Initial Hydrostatic Pressure	1933	PSI
Initial Flow	16 to 36	PSI
Initial Closed in Pressure	1186	PSI
Final Flow Pressure	47 to 94	PSI
Final Closed in Pressure	1159	PSI
Final Hydrostatic Pressure	1932	PSI
Temperature	122	°F
Pressure Change Initial	2.2	%
Close / Final Close		

Recovery at a glance



GIP cubic foot volume: 4.77859



SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 8 Elevation: 2697 GL Field Name: Wildcat Pool: Wildcat Job Number: 351 API #: 15-063-222358

Operation: Test Complete

DATE

June 05

2019

DST #1 Formation: Lans H Test Interval: 4030 -

Total Depth: 4070'

4070'

Time On: 01:33 06/05 Time Off: 09:50 06/05

Time On Bottom: 04:06 06/05 Time Off Bottom: 07:41 06/05

BUCKET MEASUREMENT:

1st Open: 1/2" Built to 2 1/4 inches in 5 mins

1st Close: NOBB

2nd Open: 1/4 Blow. Built to 8 inches in 60 mins

2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 3% Oil 0% Water 97% Mud

Gravity: 35.2 @ 60 °F

Ph: 7

Measured RW: .18 @ 76 degrees °F

RW at Formation Temp: 0.116 @ 122 °F

Chlorides: 40,000 ppm



Test Complete

Company: Mull Drilling Company, Inc

Lease: Beougher #1-30

DST #1

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 8 Elevation: 2697 GL Field Name: Wildcat Pool: Wildcat

Job Number: 351 API #: 15-063-222358

4025 FT

DATE

June 05 2019

Formation: Lans H

Test Interval: 4030 -

Total Depth: 4070'

4070'

Time On: 01:33 06/05

Time Off: 09:50 06/05

Packer 1:

Time On Bottom: 04:06 06/05 Time Off Bottom: 07:41 06/05

Down Hole Makeup

Heads Up: 13.93 FT

Drill Pipe: 3893.87 FT Packer 2: 4030 FT

ID-3 1/2 4014.42 FT Top Recorder:

Weight Pipe: 0 FT

Bottom Recorder: 4035 FT ID-2 7/8

Well Bore Size: 7 7/8 Collars: 117.49 FT

ID-2 1/4 **Surface Choke:** 1"

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

ID-3 1/2-FH

Jars

Safety Joint

Total Anchor:

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 36 FT

4 1/2-FH



Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 8 Elevation: 2697 GL Field Name: Wildcat Pool: Wildcat Job Number: 351 API #: 15-063-222358

Operation:

Test Complete

DATE

June

05

2019

DST #1

Formation: Lans H

Test Interval: 4030 -

Total Depth: 4070'

4070'

Time On: 01:33 06/05

Time Off: 09:50 06/05

Time On Bottom: 04:06 06/05 Time Off Bottom: 07:41 06/05

Mud Properties

Mud Type: Chem Weight: 9.3 Viscosity: 55 Filtrate: 6.4 Chlorides: 1600 ppm



Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: Duke Drilling

Company, Inc - Rig 8 Elevation: 2697 GL Field Name: Wildcat Pool: Wildcat Job Number: 351 API #: 15-063-222358

Operation:

Test Complete

DATE June

05 2019

DST #1 Formation: Lans H Test Interval: 4030 - Total Depth: 4070'

Time On: 01:33 06/05 Time Off: 09:50 06/05

Time On Bottom: 04:06 06/05 Time Off Bottom: 07:41 06/05

Gas Volume Report

1st Open 2nd Open

Time Orifice PSI MCF/D Time Orifice PSI MCF/D)
---	---



Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation:

Uploading recovery & pressures

> **DATE** June 05

DST #2 Formation: Lans J Test Interval: 4090 -Total Depth: 4125' 4125'

> Time On: 19:28 06/05 Time Off: 01:45 06/06

Time On Bottom: 22:06 06/05 Time Off Bottom: 23:41 06/05

Electronic Volume Estimate:

2019

8'

1st Open Minutes: 5 **Current Reading:** .25" at 5 min

Max Reading: .25"

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

Max Reading: 0"

2nd Open Minutes: 30 **Current Reading:**

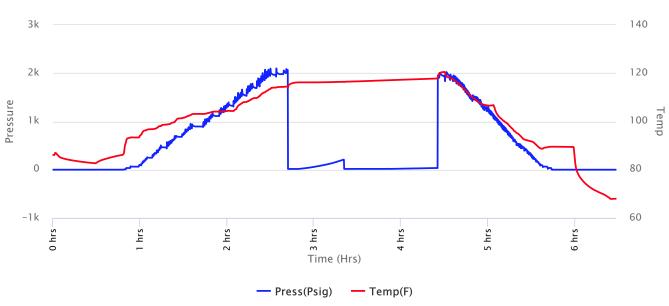
0" at 30 min

2nd Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0" Max Reading: 0"







Uploading recovery &

Company: Mull Drilling Company, Inc

Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

pressures

DATE June

05 2019

DST #2 Formation: Lans J Test Interval: 4090 - Total Depth: 4125'

Time On: 19:28 06/05 Time Off: 01:45 06/06

Time On Bottom: 22:06 06/05 Time Off Bottom: 23:41 06/05

Recovered

 Foot
 BBLS
 Description of Fluid
 Gas %
 Oil %
 Water %
 Mud %

 7
 0.03444
 M
 0
 0
 0
 100

Total Recovered: 7 ft

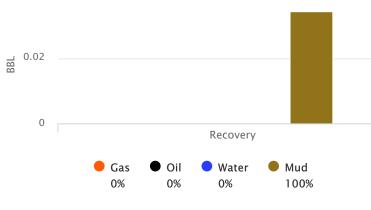
Total Barrels Recovered: 0.03444

Reversed Out
NO

Initial Hydrostatic Pressure	1967	PSI
Initial Flow	15 to 16	PSI
Initial Closed in Pressure	209	PSI
Final Flow Pressure	17 to 18	PSI
Final Closed in Pressure	34	PSI
Final Hydrostatic Pressure	1966	PSI
Temperature	118	°F
Pressure Change Initial	84.1	%

Close / Final Close GIP cubic foot volume: 0

Recovery at a glance





Uploading recovery &

pressures

Company: Mull Drilling Company, Inc

Lease: Beougher #1-30

DST #2

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

DATEJune

05 2019

Formation: Lans J Test Interval: 4090 - Total Depth: 4125'

4125'

Time On: 19:28 06/05 Time Off: 01:45 06/06

Time On Bottom: 22:06 06/05 Time Off Bottom: 23:41 06/05

BUCKET MEASUREMENT:

1st Open: 1/2 Blow. Blow didn't build.

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

REMARKS:

Tool Sample: 0% Gas 1% Oil 0% Water 99% Mud



Uploading recovery &

pressures

Company: Mull Drilling

Company, Inc

Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

4074.42 FT

DATE June

05 2019

DST #2 Formation: Lans J Test Interval: 4090 - Total Depth: 4125'

4125'

Time On: 19:28 06/05 Time Off: 01:45 06/06

Time On Bottom: 22:06 06/05 Time Off Bottom: 23:41 06/05

Down Hole Makeup

Heads Up: 16.58 FT **Packer 1:** 4085 FT

Drill Pipe: 3956.52 FT **Packer 2:** 4090 FT

ID-3 1/2 Top Recorder:

Weight Pipe: FT

ID-2 7/8 Bottom Recorder: 4095 FT

Collars: 117.49 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: 35

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 31 FT

4 1/2-FH



Uploading recovery &

pressures

Company: Mull Drilling

Company, Inc

Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

DATE

June

05 2019

DST #2 Formation: Lans J Test Interval: 4090 - Total Depth: 4125'

4125'

Time On: 19:28 06/05 Time Off: 01:45 06/06

Time On Bottom: 22:06 06/05 Time Off Bottom: 23:41 06/05

Mud Properties

Mud Type: Chem Weight: 9.4 Viscosity: 60 Filtrate: 6.2 Chlorides: 3200 ppm



Company: Mull Drilling Company, Inc

Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Uploading recovery & pressures

DATEJune **05**2019

DST #2 Formation: Lans J Test Interval: 4090 - Total Depth: 4125'

4125'

Time On: 19:28 06/05 Time Off: 01:45 06/06

Time On Bottom: 22:06 06/05 Time Off Bottom: 23:41 06/05

Gas Volume Report

1st Open 2nd Open

Time	Orifice	PSI	MCF/D	Time	Orifice	PSI	MCF/D



Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation:

Uploading recovery & pressures

DATE June 06

2019

DST #3 Formation: Lans L

Test Interval: 4135 -

Total Depth: 4175'

4175'

Time On: 11:50 06/06 Time Off: 17:28 06/06

Time On Bottom: 13:47 06/06 Time Off Bottom: 15:22 06/06

Electronic Volume Estimate:

8'

<u>1st Open</u> Minutes: 5 Current Reading:

.25" at 5 min

Max Reading: .25"

1st Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

2nd Open Minutes: 30 Current Reading:

0" at 30 min

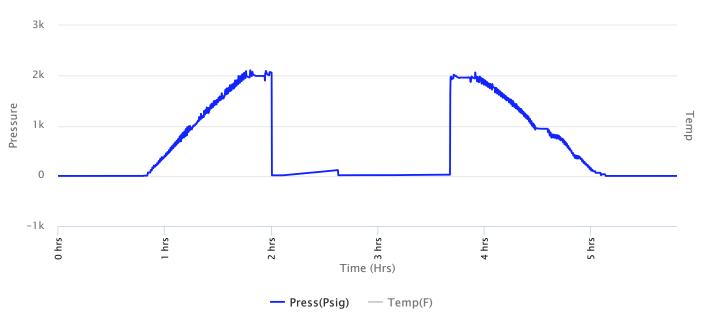
Max Reading: 0"

2nd Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

Inside Recorder





Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation: Uploading recovery & pressures

> **DATE** June 06 2019

DST #3 Formation: Lans L Test Interval: 4135 -

Total Depth: 4175'

4175'

Time On: 11:50 06/06 Time Off: 17:28 06/06

Time On Bottom: 13:47 06/06 Time Off Bottom: 15:22 06/06

Gas %

0

Recovered

<u>Foot</u> **BBLS** 2 0.00984 **Description of Fluid** M

Reversed Out

Oil %

0 0

Water %

Mud %

100

Total Recovered: 2 ft

Total Barrels Recovered: 0.00984

Close / Final Close

		NO
Initial Hydrostatic Pressure	1993	PSI
Initial Flow	12 to 13	PSI
Initial Closed in Pressure	116	PSI
Final Flow Pressure	15 to 17	PSI
Final Closed in Pressure	25	PSI
Final Hydrostatic Pressure	1994	PSI
Temperature	115	°F
Pressure Change Initial	78.9	%

0%

GIP cubic foot volume: 0

Recovery at a glance 0.01 显 0.005 Recovery Mud Oil Water 100% 0% 0%



SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation: Uploading recovery & pressures

> **DATE** June

> > 06

2019

DST #3 Formation: Lans L Test Interval: 4135 -Total Depth: 4175' 4175'

Time On: 11:50 06/06 Time Off: 17:28 06/06

Time On Bottom: 13:47 06/06 Time Off Bottom: 15:22 06/06

BUCKET MEASUREMENT:

1st Open: 1/4 Blow. Blow Didn't Build

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

REMARKS:

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



Operation:

Uploading recovery & pressures

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API#: 15-063-222358

DATE June

06

2019

DST#3 Test Interval: 4135 -Total Depth: 4175' Formation: Lans L

4175'

Time On: 11:50 06/06 Time Off: 17:28 06/06

Time On Bottom: 13:47 06/06 Time Off Bottom: 15:22 06/06

Down Hole Makeup

Heads Up: 2.999999999999 FT Packer 1: 4130 FT

Drill Pipe: 3987.94 FT Packer 2: 4135 FT

ID-3 1/2

Top Recorder: 4119.42 FT

Weight Pipe: FT **Bottom Recorder:** 4140 FT ID-2 7/8

Well Bore Size: 7 7/8

Surface Choke: 1" ID-2 1/4

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

ID-3 1/2-FH

Collars:

117.49 FT

Jars

Safety Joint

Total Anchor: 40

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT

ID-3 1/2

Change Over: FT

Perforations: (below): 36 FT

4 1/2-FH



SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation:
Uploading recovery & pressures

DATEJune

06

2019

DST #3 Formation: Lans L Test Interval: 4135 - Total Depth: 4175'

4175'

Time On: 11:50 06/06 Time Off: 17:28 06/06

Time On Bottom: 13:47 06/06 Time Off Bottom: 15:22 06/06

Mud Properties

Mud Type: Chem Weight: 9.4 Viscosity: 53 Filtrate: 6.8 Chlorides: 3200 ppm



Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API#: 15-063-222358

Operation:

Uploading recovery & pressures

> **DATE** June

> > 06

2019

DST #3 Formation: Lans L Test Interval: 4135 -Total Depth: 4175'

4175'

Time Off: 17:28 06/06 Time On: 11:50 06/06

Time On Bottom: 13:47 06/06 Time Off Bottom: 15:22 06/06

Gas Volume Report

1st Open 2nd Open

Time Ori	ce PSI	MCF/D	Time	Orifice	PSI	MCF/D
----------	--------	-------	------	---------	-----	-------



Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation:

Uploading recovery & pressures

DATEJune **07**2019

DST #4 Formation: Ft. Scott Test Interval: 4340 - Total Depth: 4405'

4405'

Time On: 16:15 06/07 Time Off: 22:41 06/07

Time On Bottom: 18:44 06/07 Time Off Bottom: 20:19 06/07

Electronic Volume Estimate:

8'

1st Open Minutes: 5 Current Reading: 0 .25" at 5 min

Max Reading: .25"

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

Max Reading: 0"

2nd Open Minutes: 30 Current Reading:

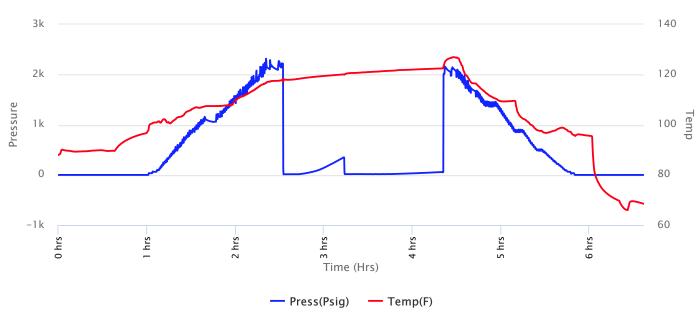
0" at 30 min Max Reading: 0"

2nd Close Minutes: 30 Current Reading:

0" at 30 min

Max Reading: 0"

Inside Recorder





Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation: Uploading recovery & pressures

> **DATE** June 07 2019

DST #4 Formation: Ft. Scott Test Interval: 4340 -Total Depth: 4405' 4405'

GIP cubic foot volume: 0

Time On: 16:15 06/07 Time Off: 22:41 06/07

Time On Bottom: 18:44 06/07 Time Off Bottom: 20:19 06/07

Recovered

Total Barrels Recovered: 0.02952

Close / Final Close

Foot BBLS Description of Fluid Gas % Oil % Water % Mud % 0 100 6 0.02952 M 0 0

Total Recovered: 6 ft Recovery at a glance

Reversed Out

NO

Initial Hydrostatic Pressure PSI 2110 **Initial Flow** 13 to 15 PSI **Initial Closed in Pressure** 352 PSI Final Flow Pressure 16 to 21 PSI **Final Closed in Pressure** 58 PSI Final Hydrostatic Pressure 2106 PSI Temperature 123 °F Pressure Change Initial % 83.5

0.02 BBL Recovery Mud Gas Oil Water 100% 0% 0% 0%



Uploading recovery &

pressures

Company: Mull Drilling Company, Inc Lease: Beougher #1-30 SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

DATEJune

07

2019

DST #4 Formation: Ft. Scott Test Interval: 4340 - Total Depth: 4405'

Time On: 16:15 06/07 Time Off: 22:41 06/07

Time On Bottom: 18:44 06/07 Time Off Bottom: 20:19 06/07

BUCKET MEASUREMENT:

1st Open: 1/4" Blow. Blow Didnt Build.

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



── Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation:

Uploading recovery & pressures

DATEJune

07

2019

DST #4 Formation: Ft. Scott Test Interval: 4340 - Total Depth: 4405'

4405'

Time On: 16:15 06/07 Time Off: 22:41 06/07

Time On Bottom: 18:44 06/07 Time Off Bottom: 20:19 06/07

Down Hole Makeup

Heads Up: 18.29 FT **Packer 1:** 4335.09 FT

Drill Pipe: 4208.32 FT **Packer 2:** 4340.09 FT

ID-3 1/2

Top Recorder: 4324.51 FT
Weight Pipe: FT

ID-2 7/8 Bottom Recorder: 4378 FT

Collars: 117.49 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: 64.91

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT

4 1/2-FH

Change Over: .5 FT

Drill Pipe: (in anchor): 31.41 FT

ID-3 1/2

Change Over: 1 FT

Perforations: (below): 28 FT

4 1/2-FH



SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

Operation:

Uploading recovery & pressures

DATEJune

07

2019

DST #4 Formation: Ft. Scott Test Interval: 4340 - Total Depth: 4405'

4405'

Time On: 16:15 06/07 Time Off: 22:41 06/07

Time On Bottom: 18:44 06/07 Time Off Bottom: 20:19 06/07

Mud Properties

Mud Type: Chem Weight: 9.3 Viscosity: 59 Filtrate: 6 Chlorides: 3200 ppm



Operation:

Uploading recovery & pressures

Lease: Beougher #1-30

SEC: 30 TWN: 13S RNG: 27W

County: GOVE State: Kansas

Drilling Contractor: WW Drilling, LLC -

Rig 8

Elevation: 2697 GL Field Name: Wildcat Pool: WILDCAT Job Number: 351 API #: 15-063-222358

DATEJune

07

2019

DST #4 Formation: Ft. Scott Test Interval: 4340 - Total Depth: 4405'

4405'

Time On: 16:15 06/07 Time Off: 22:41 06/07

Time On Bottom: 18:44 06/07 Time Off Bottom: 20:19 06/07

Gas Volume Report

1st Open 2nd Open

Time	Orifice	PSI	MCF/D		Time	Orifice	PSI	MCF/D
------	---------	-----	-------	--	------	---------	-----	-------

KEVIN L. KESSLER CONSULTING PETROLEUM GEOLOGIST (316) 522 - 7338 **ELEVATION OPERATOR:** MULL DRILLING CO. INC. LEASE : BEOUGHER **KB**: 2702' **WELL #:** 1 - 30 LOCATION: 2337' FNL & 1330' FEL **GL**: 2697' **SEC**: 30 **TWP**: 13 S **RGE**: 27 W MEASURMENTS FROM: **COUNTY**: GOVE **STATE:** KANSAS KB CONTRACTOR: W W RIG # 8 CASING RECORD: COMP: 06 - 08 - 2019 SURFACE: COMM: 05 - 31 - 2019 8 5/8" @ 209' RTD: 4540' LTD: 4541' PRODUCTION: GEOLOGICAL SUPERVISION FROM: 3700' TO: RTD NONE SAMPLES SAVED FROM: 3700' TO: RTD SAMPLE TOP DATUM TOP LOG DATUM COMP. FORMATION: **ELECTRICAL SURVEYS:** DIL 3859 **HEEBNER** - 1157 - 1157 - 04 3859 CNL/CDL 3899 LANSING - 1197 3899 - 1197 - 04 **MICRO** 4125 - 05 STARK - 1425 4125 - 1425 SONIC BASE/KC - 1474 4176 - 01 4176 - 1474 4380 FORT SCOTT - 1678 + 03- 1678 4380 - 1706 4408 CHEROKEE 4408 - 1706 - 01 **MISSISSIPPI** - 07 4486 - 1784 4486 - 1784 REFERENCE WELL FOR STRUCTURAL COMPARISON: MULL 1-29 COBELY-BEOUGHER UNIT 29-13S-27W GOVE CO KS 3700 -LST: CRM - GRAY FXTAL SUBCHKY -DNSE SLI FOSS. MINOR GRAY SHALE NO VIS. POR. NSO LST: CRM - GRAY FXTAL ARENACEOUS IN PART SLI FOSS NO VIS. POR. NSO SHALE: BLK CARB. W/ LST. A. A. NO VIS. POR. NSO 3750 -LST: CRM - TAN - BRN FXTAL SUBCHKY -CHKY AREN. IN PART MINOR FOSS. OOLITIC IN PART PRIVIS. INTERPRT. POR. NSO LST: CRM - TAN FXTAL SOFT CHKY OOLITIC AREN. IN PART NO VIS. POR. 3800 -LST: CRM - GAY FXTAL SUBCHKY - DNSE SLI FOSS. MINOR OOLITES AREN. IN PART FR AMT. GRAY SILTY SHALE NO VIS. POR. NSO LST: A. A. NSO LST: CRM - GRAY A . . A ABUND GRAY -DRK GRAY CALC. SHALE NO VIS. POR. LST: CRM - TAN FXTAL SOFT CHKY CHECK @ MUI 185°0' FLAGGY IN PART SLI FOSS, FR AMT. GRAY SHALE NO VIS. POR. NSO W/T 3850 HEEBN -R 3859 (- 157 SHALE: BLK CARB. W/ DNSE MOTTLED LST. NO VIS. POR. NSO SHALE: GRAY CALC. NO VIS. POR. NSO LST: WHT - CRM FXTAL SUBCHKY -DNSE CHERTY IN PART NO VIS. POR. LANSIN G 3899 (- 11 97:) 3900 LST: WHT - CRM FXTAL MOST DNSE HARD SLI CHERTY W/ WHT - GRAY FRESH CHERT SLI FOSS NO VIS. POR. NSO LST: WHT - CRM FXTAL SUBCHKY -DNSE OOLITIC SLI FOSS. FR INTRPRT. POR. NSO SHALE: GRAY CALC. NO VIS. POR. NSO LST: WHT - CRM FXTAL DNSR BLOCKY NO VIS. POR. NSO SHALE: GRAY SILTY NO VIS. POR. NSO 3950 -MUD CHECK @ 3 LST: CRM - GRAY FXTAL DNSE SLI FOSS. М NO VIS. POR. NSO LST: FXTAL SUBCHKY - MOSTLY DNSE SLI FOSS. TRC SFO NO ODOR 3-4 PCS W/ DRK BRN - BLK SPTY STN PR VUGGY POR. LST: CRM - GRAY - WHT FXTAL SUBCHKY - MOSTLY DNSE FOSS. IN PART NO VIS. POR. NSO LST: WHT - CRM FXTAL SUBCHKY FOSS. NSO 4000 SHALE: GRAY SILTY W/ FR AMT FLAGGY BRITTLE LST. CRM - GRAY NO VIS. POR. NSO LST: WHT - CRM - GRAY FXTAL SUBCHY DNSE FOSS. IN PART NO VIS. POR. NSO LST: A. A. NO VIS POR. NSO # 1 (4030 - 4070) IFP. SHALE: GRAY - DRK GRAY NSO ISIP: 1186# FFP 47 - 94# 1159# F\$IF SHALE: BLK CARB, NSO LST: CRM - WHT FXTAL SUBCHKY -DNSE NO VIS. POR. NSO S 4050 MUI CHECK@ 4050' LST: CRM - GRAY FXTAL DNSE BLOCKY # SLI FOSS. GSFO GOOD ODOR SCATT LT VIS - MED BRN SAT. STN PR - FR INTRPRT & W/T PIN POINT POR. LST: A. A. NO VIS. POR. NSO LST: CRM - WHITE FXTAL MOST DNSE HARD NO VIS. POR. NSO # 2 (4090 - 4125) DST REC: 7 MUD IFP: 15 - 16# IFP: 4100 -ISIP: 209# FFP: Ś F\$IF LST: CRM - GRAY FXTAL SUBCHKY -34# DNSE OOLITIC IN PARTIFSFO FR ODOR # FR AMOUNT SUBSAT - SAT LT - MED BRN STN FR - GD VUGGY POR. LST: CRM - GRAY FXTAL SUBCHKY -DNSE NO VIS. POR. NSO TARK SHALE: BLACK CARB. NSO DST # 3 (4135 - 4175) REC 2' MUD IFP: 12 - 13# LST: CRM - GRAY FXTAL MOST DNSE IFP. MINOR OOLITES RARE FOSS. NO VIS. ISIP: 116# POR. NSO FFP: 15 FSIP 25# 4150 -LST: CRM - WHT FXTAL MOST HARD ΣT BRITTLE FOSS IN PART NO VIS. POR. NSO MUD CHECK @ 4 LST: CRM - WHT FXTAL SUBCHKY -150' DNSE FOSS IN PART SSFO FNT ODOR W/ FEW PCS SPTY - SUBSAT MED BRN VV/T STN PR VUGGY & INTRPRT. POR. CC 4176 (474) SHALE GRAY NSO SHALE: GRAY - BRN SILTY NO VIS. POR. NSO 4200 -LST: CRM - TAN FXTAL DNSE HARD NO VIS. POR. NSO LST: CRM - TAN FXTAL DNSE HARD NO VIS. POR. NSO SHALE: GRAY - DRK GRAY - BLK CARB. NO VIS. POR. NSO SHALE: A. A. NO VIS. POR. NSO CHECK @ 4 MUI 250' VIS W/T 4250 SHALE: DRK GRAY - BLK NSO LST: CRM - TAN - BRN FXTAL SUBCHKY -SHALE: BROWN ARGILACEOUS EARTHY NO VIS. POR. NSO LST: CRM - GRAY FXTAL MOST DNSE MICRITIC IN PART NO VIS. POR. NSO LST: A. A. W/ FR AMT BRN EATHY ARGILACEOUS SHALE NO VIS. POR. NSO 4300 LST: CRM - GRAY FXTAL DNSE RARE FOSS BRN SILTY SHALE NO VIS. POR. A. A. MOSTLY DNSE NO VIS. POR. NSO LST: CRM - GRAY DNSE BLOCKY RARE # 4 (4340 - 4405) FOSS. MICRITIC IN PART NO VIS. POR. : 8' MUD 3 15# IFP: SHALE: GRAY CALC. NSO 151 FFP: LST: CRM - GRAY MOST DNSE SLI FOSS. FSIP 58# MINOR OOLITES NO VIS. POR. NSO 4350 CHECK @ M 350' LST: CRM - GRAY FXTAL SUBCHKY -MOSTLY DNSE SLI FOSS, NO VIS. POR. WI NSO ū LST: A. A. NO VIS. POR. NSO # SCOTT 4380 (678 LST: CRM - TAN FXTAL - DNSE HARD 0 BLOCKY OOLITIC IN PART VSSFO FNT ODOR SCATT VRY LT. BRN SUBSAT -SAT STN VRY PR. INTRPRT. POR. 0 0 LST: CRM - TAN FXTAL DNSE HARD OOLITIC IN PART NO VIS. POR. NSO 4400 0 1706 LST: CRM - GRAY FXTAL MOST DNSE CHEROKEE 4408 (RARE FOSS. NO VIS. POR. NSO LST: CRM - GRAY FXTAL DNSE SLI FOSS. FR AMT BLK CARB. SHALE NO VIS. POR. SHALE: GRAY - DRK GRAY - BLK W/ INTERBEDDED GRAY FLAGGY DNSE LST. NO VIS. POR. NSO A. A. NO VIS. POR. NSO 4450 SHALE: A.A. BECOMING SANDY AND SILTY FEW GRNS OF FINE QTZ. SAND MUD CHECK @ 4450' NSO NO FLUOR. VV/T CONGLOMERATE SHALE: RED - BRN YELLOW ROTTEN INCOMPETENT NO VIS. POR. NSO MISSISSIPPL4486 (-1784) DOLOMITE: CRM - GRAY FXTAL -MICRXTAL SUCROSIC RARE CHERT NO VIS. POR. NSO DOLOMITE: CRM - GRAY FXTAL 4500 SUCROSIC HARD TIGHT NO VIS. POR. NSO DOLOMITE: A. A. NO VIS. POR. NSO DOLOMITE: CRM - GRAY FXTAL DNSE HARD SUCROSIC NO VIS. POR. NSO =:4540; LTC COMMENTS: DUE TO NEGATIVE TEST RESULTS THIS WELL WAS PLUGGED AND ABANDONED KEVIN L. KESSLER