

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
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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](mailto: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) (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	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	Top	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







**Company: Mull Drilling  
Company, Inc**  
**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

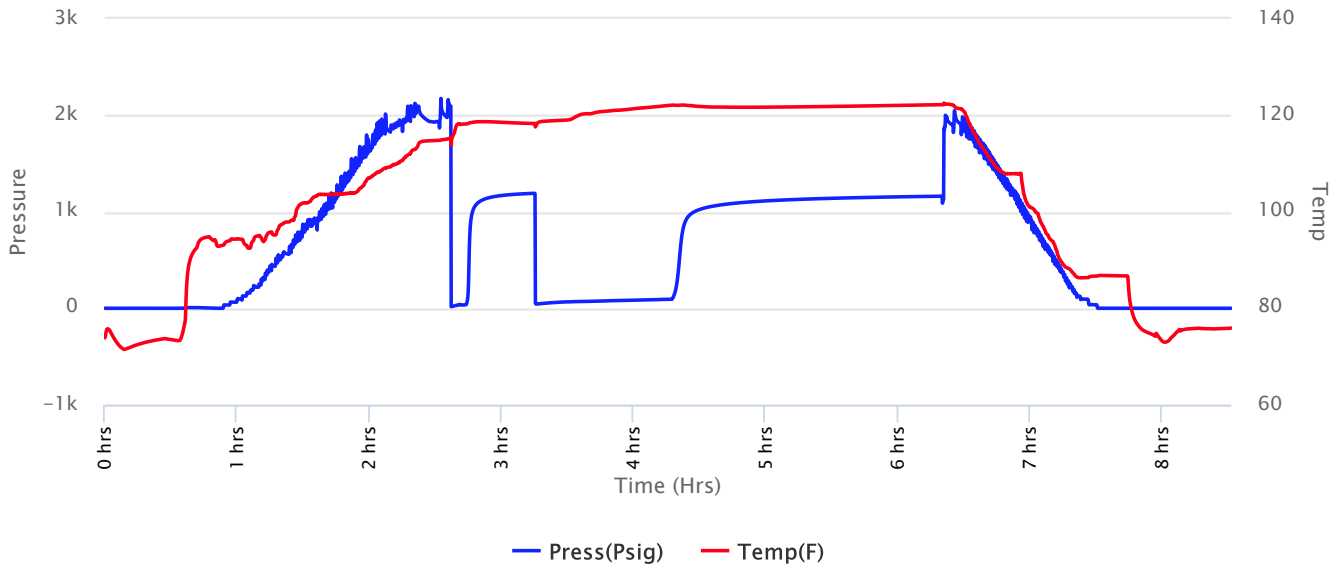
**DATE**  
June  
**05**  
2019

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

Electronic Volume  
Estimate:  
187'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 5	Minutes: 30	Minutes: 60	Minutes: 120
Current Reading: 2.25" at 5 min	Current Reading: 0" at 30 min	Current Reading: 8.1" at 60 min	Current Reading: 0" at 120 min
Max Reading: 2.25"	Max Reading: 0"	Max Reading: 8.1"	Max Reading: 0"

Inside Recorder





**Company: Mull Drilling  
Company, Inc  
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**  
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**DST #1**      **Formation: Lans H**      **Test Interval: 4030 - 4070'**      **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

Recovered

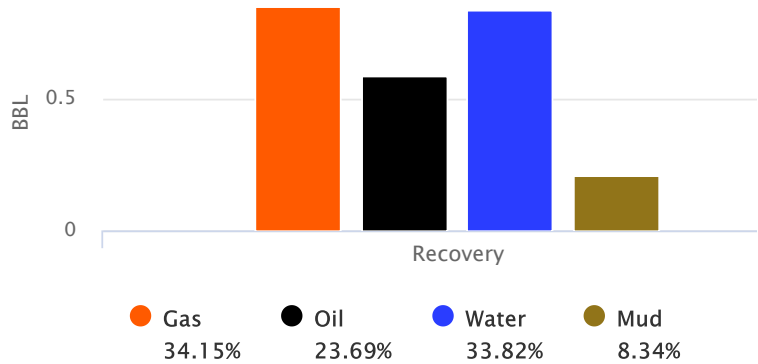
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
59	0.83957	G	100	0		
35	0.49805	O	0	100	0	0
158	1.1545081	SLGCSLOCSLMCW	1	8	73	18

Total Recovered: 252 ft  
Total Barrels Recovered: 2.4921281

Reversed Out  
NO

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

**Recovery at a glance**



GIP cubic foot volume: 4.77859





**Company: Mull Drilling  
Company, Inc**  
**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**  
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**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



**Company: Mull Drilling  
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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**  
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**DST #1      Formation: Lans H      Test Interval: 4030 - 4070'      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

**Down Hole Makeup**

<b>Heads Up:</b> 13.93 FT	<b>Packer 1:</b> 4025 FT
<b>Drill Pipe:</b> 3893.87 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4030 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4014.42 FT
<b>Collars:</b> 117.49 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4035 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 40	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 36 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling  
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**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**  
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**DST #1**      **Formation: Lans H**      **Test Interval: 4030 - 4070'**      **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

**Mud Properties**

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



**Company: Mull Drilling  
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**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

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**05**  
2019

**DST #1**      **Formation: Lans H**      **Test Interval: 4030 - 4070'**      **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
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Time	Orifice	PSI	MCF/D
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**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

**Operation:**  
Uploading recovery &  
pressures

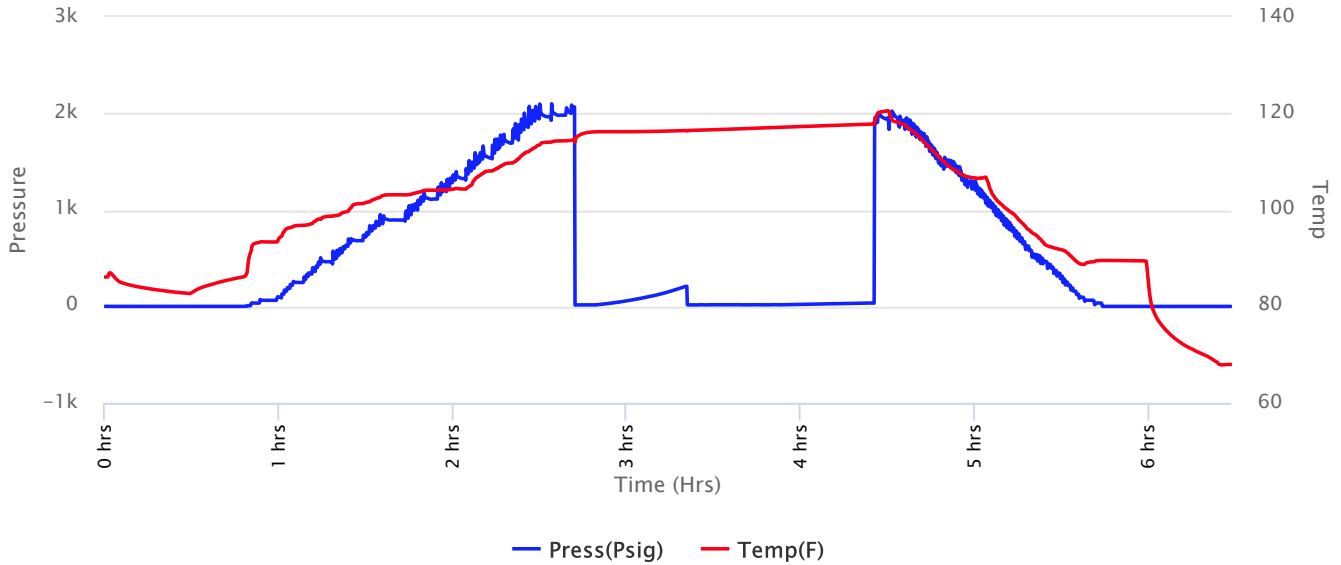
**DATE**  
June  
**05**  
2019

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

Electronic Volume  
Estimate:  
8'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 5	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: .25" at 5 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min
Max Reading: .25"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





**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

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
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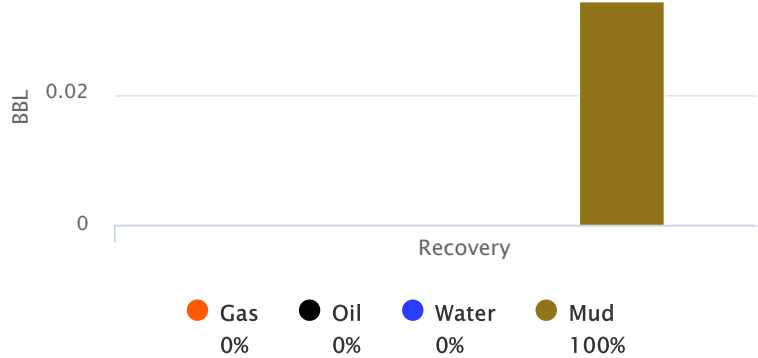
**DST #2**      **Formation: Lans J**      **Test Interval: 4090 - 4125'**      **Total Depth: 4125'**  
Time On: 19:28 06/05      Time Off: 01:45 06/06  
Time On Bottom: 22:06 06/05      Time Off Bottom: 23:41 06/05

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
7	0.03444	M	0	0	0	100

Total Recovered: 7 ft  
Total Barrels Recovered: 0.03444

Reversed Out  
NO

**Recovery at a glance**



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

GIP cubic foot volume: 0



**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

**Operation:**  
Uploading recovery &  
pressures

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

**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











**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

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 June  
**06**  
 2019

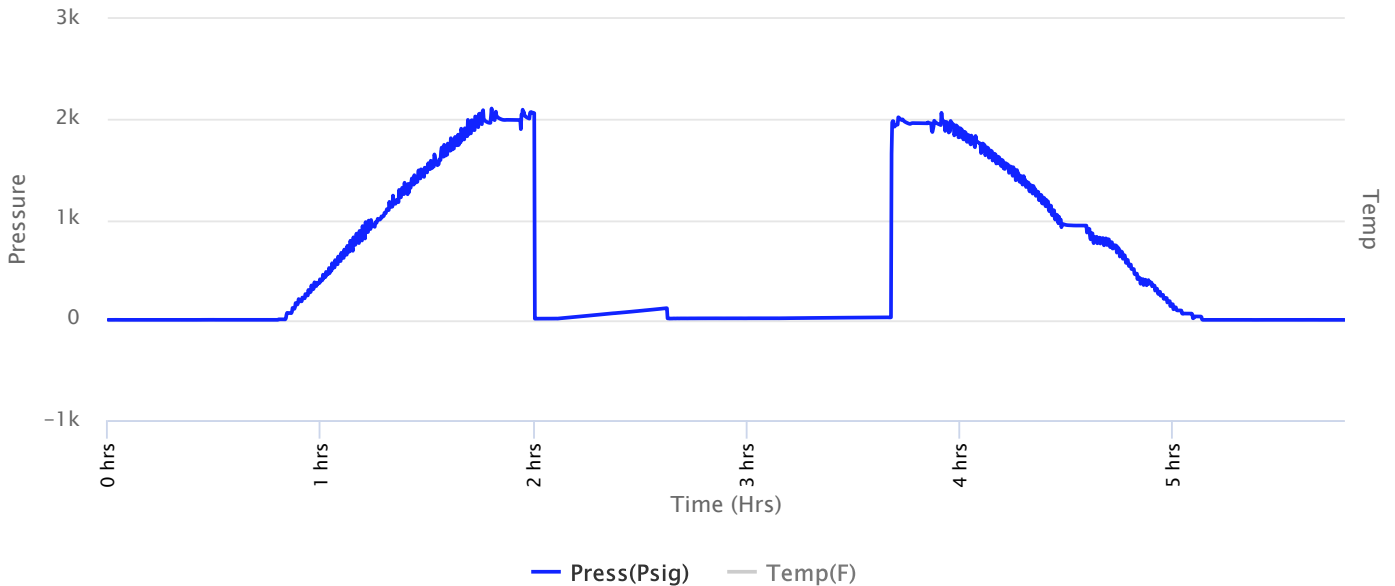
**DST #3      Formation: Lans L      Test Interval: 4135 - 4175'      Total Depth: 4175'**

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>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 5	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: .25" at 5 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min	Current Reading: 0" at 30 min
Max Reading: .25"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





**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

**Operation:**  
Uploading recovery & pressures

**DATE**  
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**06**  
2019

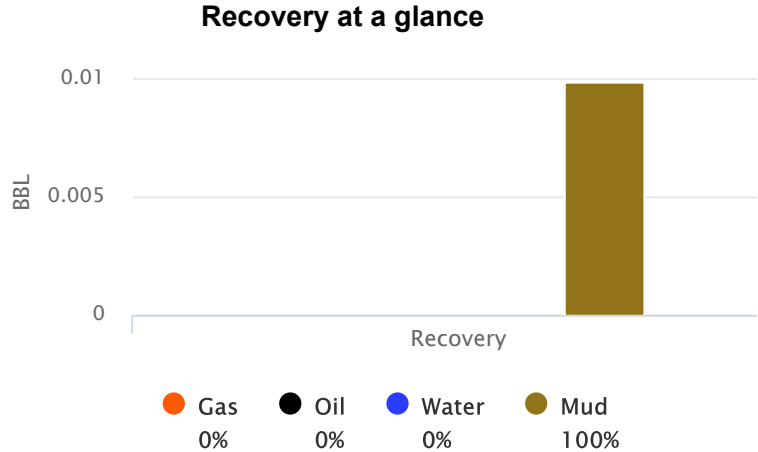
**DST #3      Formation: Lans L      Test Interval: 4135 - 4175'      Total Depth: 4175'**  
Time On: 11:50 06/06      Time Off: 17:28 06/06  
Time On Bottom: 13:47 06/06      Time Off Bottom: 15:22 06/06

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
2	0.00984	M	0	0	0	100

Total Recovered: 2 ft  
Total Barrels Recovered: 0.00984

Reversed Out  
NO

Initial Hydrostatic Pressure	1993	PSI
Initial Flow	12 to 13	PSI
<b>Initial Closed in Pressure</b>	<b>116</b>	<b>PSI</b>
Final Flow Pressure	15 to 17	PSI
<b>Final Closed in Pressure</b>	<b>25</b>	<b>PSI</b>
Final Hydrostatic Pressure	1994	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	78.9	%



GIP cubic foot volume: 0



**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

**Operation:**

Uploading recovery &  
pressures

**DATE**

June

**06**

2019

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



**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

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**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

**Down Hole Makeup**

<b>Heads Up:</b> 2.999999999999999 FT	<b>Packer 1:</b> 4130 FT
<b>Drill Pipe:</b> 3987.94 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4135 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4119.42 FT
<b>Collars:</b> 117.49 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4140 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 40	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 36 FT <i>4 1/2-FH</i>	



**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

**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

**Mud Properties**

**Mud Type:** Chem

**Weight:** 9.4

**Viscosity:** 53

**Filtrate:** 6.8

**Chlorides:** 3200 ppm









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SEC: 30 TWN: 13S RNG: 27W  
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State: Kansas  
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Rig 8  
Elevation: 2697 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 351  
API #: 15-063-222358

**Operation:**  
Uploading recovery &  
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**DATE**  
June  
**07**  
2019

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

Electronic Volume  
Estimate:  
8'

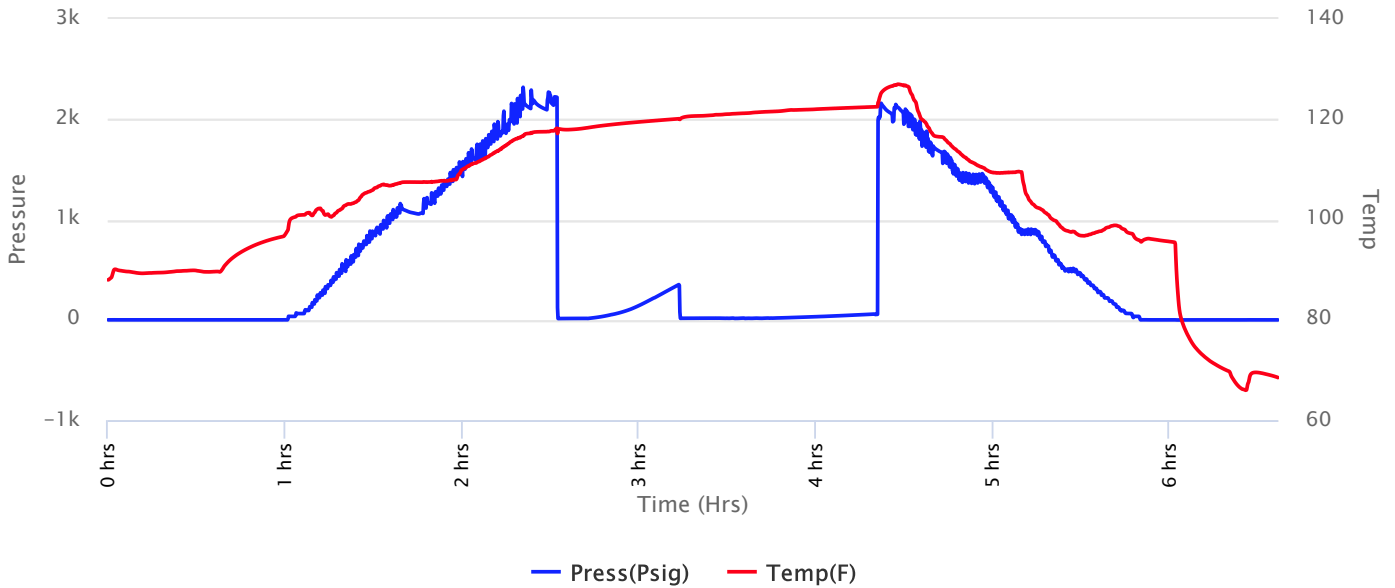
1st Open  
Minutes: 5  
Current Reading:  
.25" at 5 min  
Max Reading: .25"

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

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

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

Inside Recorder





**Company: Mull Drilling  
Company, Inc**  
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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 - 4405'**    **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

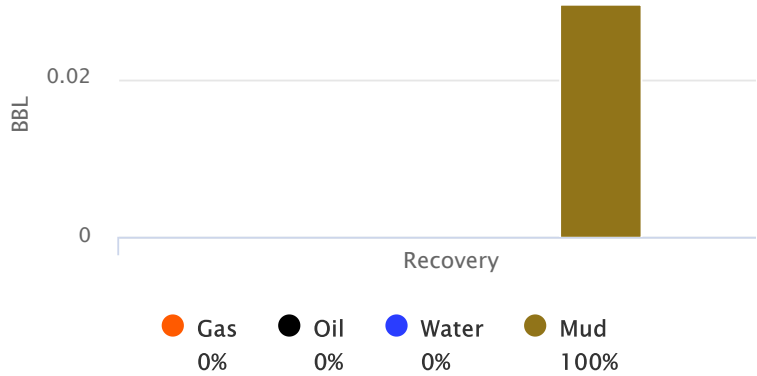
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
6	0.02952	M	0	0	0	100

Total Recovered: 6 ft  
Total Barrels Recovered: 0.02952

Reversed Out  
NO

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

Recovery at a glance



GIP cubic foot volume: 0



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Lease: Beougher #1-30**

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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:**  
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**DATE**  
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**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

**BUCKET MEASUREMENT:**

1st Open: 1/4" Blow. Blow Didnt Build.  
1st Close: NOBB  
2nd Open: No Blow  
2nd Close: NOBB



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County: GOVE  
State: Kansas  
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Rig 8  
Elevation: 2697 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 351  
API #: 15-063-222358

**Operation:**  
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pressures

**DATE**  
June  
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**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**

<b>Heads Up:</b> 18.29 FT	<b>Packer 1:</b> 4335.09 FT
<b>Drill Pipe:</b> 4208.32 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4340.09 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4324.51 FT
<b>Collars:</b> 117.49 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4378 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 64.91	<b>Surface Choke:</b> 1"
<b><u>Anchor Makeup</u></b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31.41 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 28 FT <i>4 1/2-FH</i>	



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

**Operation:**

Uploading recovery &  
pressures

**DATE**

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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



**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

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
June  
**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
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Time	Orifice	PSI	MCF/D
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# KEVIN L. KESSLER

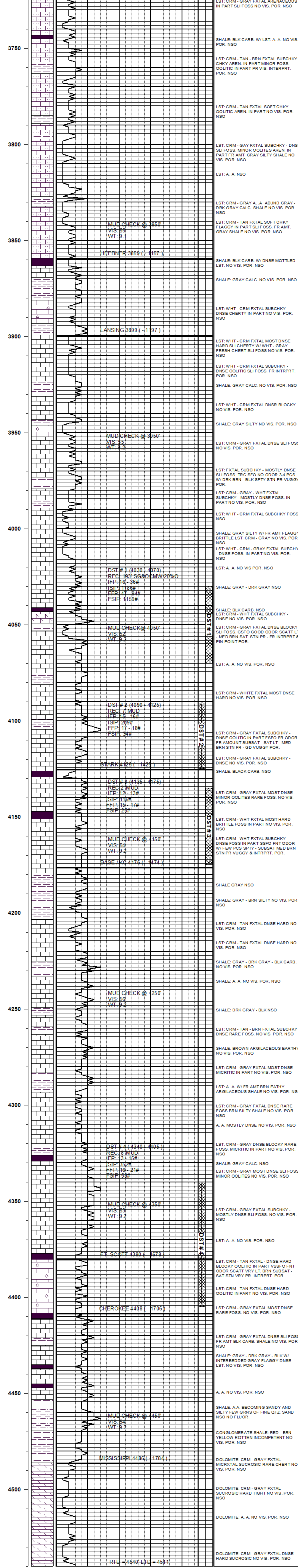
## CONSULTING PETROLEUM GEOLOGIST

( 316 ) 522 - 7338

<b>OPERATOR :</b> MULL DRILLING CO. INC.		<b>ELEVATION</b>  <b>KB:</b> 2702'  <b>GL:</b> 2697'  MEASUREMENTS FROM: <b>KB</b>
<b>LEASE :</b> BEOUGHER	<b>WELL # :</b> 1 - 30	
<b>LOCATION :</b> 2337' FNL & 1330' FEL		
<b>SEC :</b> 30	<b>TWP :</b> 13 S <b>RGE :</b> 27 W	
<b>COUNTY :</b> GOVE		<b>STATE :</b> KANSAS
<b>CONTRACTOR:</b> W W RIG # 8		<b>CASING RECORD:</b> <b>SURFACE:</b> 8 5/8" @ 209' <b>PRODUCTION:</b> NONE
<b>COMM:</b> 05 - 31 - 2019	<b>COMP:</b> 06 - 08 - 2019	
<b>RTD:</b> 4540'	<b>LTD:</b> 4541'	
<b>GEOLOGICAL SUPERVISION FROM:</b> 3700' <b>TO:</b> RTD		
<b>SAMPLES SAVED FROM:</b> 3700' <b>TO:</b> RTD		

<b>FORMATION:</b>	<b>TOP</b>	<b>LOG DATUM</b>	<b>TOP</b>	<b>SAMPLE DATUM</b>	<b>COMP.</b>	<b>ELECTRICAL SURVEYS:</b>  DIL CNL/CDL  MICRO  SONIC
HEEBNER	3859	- 1157	3859	- 1157	- 04	
LANSING	3899	- 1197	3899	- 1197	- 04	
STARK	4125	- 1425	4125	- 1425	- 05	
BASE/KC	4176	- 1474	4176	- 1474	- 01	
FORT SCOTT	4380	- 1678	4380	- 1678	+ 03	
CHEROKEE	4408	- 1706	4408	- 1706	- 01	
MISSISSIPPI	4486	- 1784	4486	- 1784	- 07	

**REFERENCE WELL FOR STRUCTURAL COMPARISON:**  
MULL 1-29 COBELY-BEOUGHER UNIT 29-13S-27W GOVE CO KS



**COMMENTS :**  
DUE TO NEGATIVE TEST RESULTS THIS WELL WAS PLUGGED AND ABANDONED

KEVIN L. KESSLER