

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 Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	SLT 1-3
Doc ID	1396544

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	SLT 1-3
Doc ID	1396544

Tops

Name	Top	Datum
Anhydrite	2167	+ 389
B/Anhydrite	2202	+ 354
Topeka	3482	- 926
Heebner	3693	- 1137
Lansing	3732	- 1176
Stark Shale	3906	- 1349
B/KC	3949	- 1393
Marmaton	4003	- 1447
Pawnee	4084	- 1528
Mississippi	4294	- 1738



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

9569/9467

TICKET NUMBER: 54964
LOCATION: Oakley, KS
FOREMAN: Walt Dinkal

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 811851

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-21-17	5659	SLT # 1-3	3	85	28W	Shenandoah
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Mott Dr. Ls			753	Travis Williams		
MAILING ADDRESS				Paul Williams		
1700 N. Waterfront Parkway, Bldg.						
CITY	STATE	ZIP CODE				
Wichita	KS	67206				

Stallley Rd 140E north to corner, 1/4 SE

JOB TYPE: Surface HOLE SIZE: 12 1/4" HOLE DEPTH: 218' CASING SIZE & WEIGHT: 8 5/8" 24#
 CASING DEPTH: 208' DRILL PIPE: TUBING: OTHER:
 SLURRY WEIGHT: 15.2 SLURRY VOL: WATER gal/sk: CEMENT LEFT in CASING: 15-20'
 DISPLACEMENT: 12.0 DISPLACEMENT PSI: MIX PSI: RATE: 4-5 BPM

REMARKS: Safety meeting, rig up on Pickrell Ditch, circ casing on bottom, mix 165 SCS surface bleed II, Displace LIP 12-BBL #20 slurry

Cement Dial Circ
1 BBL to Pit

Thank you
Walt & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
Ceo 471	1	PUMP CHARGE	1,150.00	1,150.00
Ceo 002	30	MILEAGE	7.15	214.50
Ceo 711	7.96	Ton mileage Delivery	1.75	660.00
Ce 5871	14868	165 SCS Surface Bleed II	24.00	3,960.00
				5,984.50
		Less 30% Disc	-1,795.39	4,189.15
			8.50 SALES TAX	235.62
			ESTIMATED TOTAL	4,424.77

RAVIN 3737 AUTHORIZATION: [Signature] TITLE: T.D. DATE: [Blank]

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



Company: Mull Drilling Company, Inc
Lease: SLT #1-3

SEC: 3 TWN: 8S RNG: 26W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: Pickrell Drilling Company, Inc. - Rig 10
 Elevation: 2549 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 82

DATE
 November
26
 2017

DST #1 **Formation: Lansing "A&B"** **Test Interval: 3745 - 3775'** **Total Depth: 3775'**
 Time On: 18:40 11/26 Time Off: 01:36 11/27
 Time On Bottom: 21:09 11/26 Time Off Bottom: 23:14 11/26

Recovered

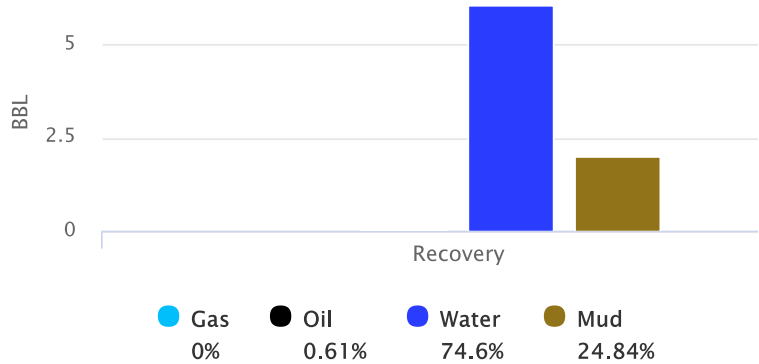
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
320	4.5536	SLOCHMCW	0	1	61	38
250	3.5575	SLMCW (trace O)	0	.1	92	8

Total Recovered: 570 ft
 Total Barrels Recovered: 8.1111

Reversed Out
 NO

Initial Hydrostatic Pressure	1744	PSI
Initial Flow	29 to 83	PSI
Initial Closed in Pressure	1216	PSI
Final Flow Pressure	79 to 273	PSI
Final Closed in Pressure	1178	PSI
Final Hydrostatic Pressure	1743	PSI
Temperature	125	°F
Pressure Change Initial Close / Final Close	3.1	%

Recovery at a glance





**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

<p>DATE November 26 2017</p>
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DST #1	Formation: Lansing "A&B"	Test Interval: 3745 - 3775'	Total Depth: 3775'
	Time On: 18:40 11/26	Time Off: 01:36 11/27	
	Time On Bottom: 21:09 11/26	Time Off Bottom: 23:14 11/26	

REMARKS:

IF: 11" blow
ISI: No BB
FF: BOB 7 1/2 min
FSI: No BB

TOOL SAMPLE: 3% OIL, 73% WATER, 24% MUD

Ph: 6.0

RW: .22 @ 56 degrees F

Chlorides: 51,000 ppm



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
26
2017

DST #1 **Formation: Lansing** **Test Interval: 3745 -** **Total Depth: 3775'**
 "A&B" **3775'**

Time On: 18:40 11/26 Time Off: 01:36 11/27
Time On Bottom: 21:09 11/26 Time Off Bottom: 23:14 11/26

Down Hole Makeup

<p>Heads Up: 34.2 FT</p> <p>Drill Pipe: 3754.04 FT <i>ID-3 1/2</i></p> <p>Weight Pipe: 0 FT <i>ID-2 7/8</i></p> <p>Collars: 0 FT <i>ID-2 1/4</i></p> <p>Test Tool: 26.16 FT <i>ID-3 1/2-FH</i></p> <p>Total Anchor: 30</p> <p style="text-align: center;"><u>Anchor Makeup</u></p> <p>Packer Sub: 1 FT</p> <p>Perforations: (top): 0 FT <i>4 1/2-FH</i></p> <p>Change Over: 0 FT</p> <p>Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i></p> <p>Change Over: 0 FT</p> <p>Perforations: (below): 29 FT <i>4 1/2-FH</i></p>	<p>Packer 1: 3740 FT</p> <p>Packer 2: 3745 FT</p> <p>Top Recorder: 3732 FT</p> <p>Bottom Recorder: 3747 FT</p> <p>Well Bore Size: 7 7/8</p> <p>Surface Choke: 1"</p> <p>Bottom Choke: 5/8"</p>
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**Company: Mull Drilling
Company, Inc**
Lease: SLT #1-3

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE November 26 2017
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DST #1	Formation: Lansing "A&B"	Test Interval: 3745 - 3775'	Total Depth: 3775'
	Time On: 18:40 11/26	Time Off: 01:36 11/27	
	Time On Bottom: 21:09 11/26	Time Off Bottom: 23:14 11/26	

Mud Properties

Mud Type: Chemical **Weight:** 8.8 **Viscosity:** 62 **Filtrate:** 7.6 **Chlorides:** 1,000 ppm



**Company: Mull Drilling
Company, Inc**
Lease: SLT #1-3

SEC: 3 TWN: 8S RNG: 26W
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State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
26
2017

DST #1	Formation: Lansing "A&B"	Test Interval: 3745 - 3775'	Total Depth: 3775'
	Time On: 18:40 11/26	Time Off: 01:36 11/27	
	Time On Bottom: 21:09 11/26	Time Off Bottom: 23:14 11/26	

Gas Volume Report

1st Open

Time	Orifice	PSI	MCF/D
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2nd Open

Time	Orifice	PSI	MCF/D
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**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
27
2017

DST #2 **Formation:**
Lansing"F" **Test Interval: 3797 -**
3825' **Total Depth: 3825'**

Time On: 10:08 11/27 Time Off: 17:52 11/27
Time On Bottom: 12:13 11/27 Time Off Bottom: 15:48 11/27

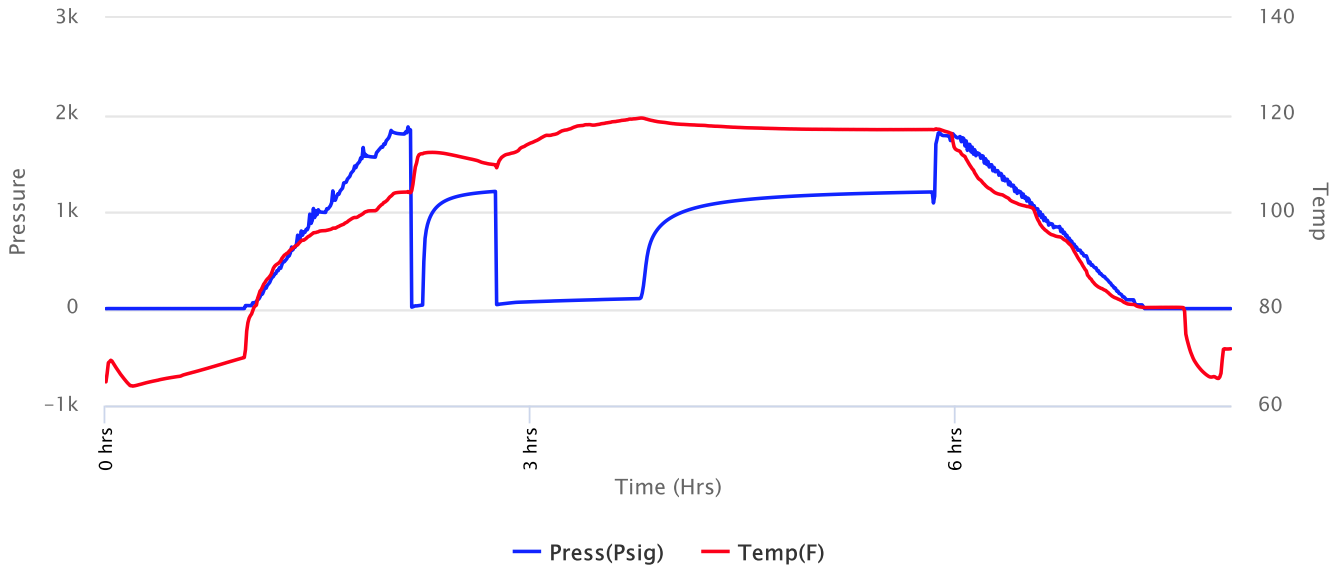
Electronic Volume
Estimate:
225'

1st Open
Minutes: 5
2.6" at 5 min

1st Close
Minutes: 30
0" at 30 min

2nd Open
Minutes: 60
12.1" at 60 min

2nd Close
Minutes: 120
0" at 120 min





**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
27
2017

DST #2 **Formation:**
Lansing" F" **Test Interval: 3797 -** **Total Depth: 3825'**
Time On: 10:08 11/27 Time Off: 17:52 11/27
Time On Bottom: 12:13 11/27 Time Off Bottom: 15:48 11/27

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
5	0.07115	O	0	100	0	0
140	1.4263382	SLOCHMCW	0	1	61	38
60	0.2952	HWCM (trace O)	0	.5	33	67

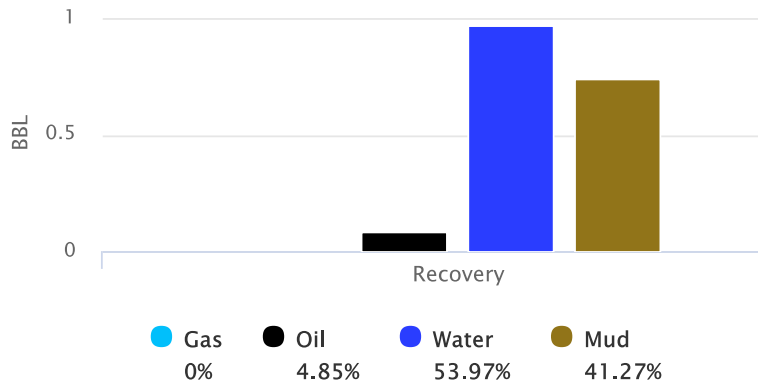
Total Recovered: 205 ft

Total Barrels Recovered: 1.7926882

Reversed Out
NO

Initial Hydrostatic Pressure	1801	PSI
Initial Flow	16 to 37	PSI
Initial Closed in Pressure	1210	PSI
Final Flow Pressure	42 to 104	PSI
Final Closed in Pressure	1204	PSI
Final Hydrostatic Pressure	1790	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	0.5	%

Recovery at a glance





**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE November 27 2017
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DST #2	Formation: Lansing"F"	Test Interval: 3797 - 3825'	Total Depth: 3825'
	Time On: 10:08 11/27	Time Off: 17:52 11/27	
	Time On Bottom: 12:13 11/27	Time Off Bottom: 15:48 11/27	

REMARKS:

IF: 2 1/4" blow
ISI: No BB
FF: 11 3/4" blow
FSI: No BB

TOOL SAMPLE: 19% OIL, 43% WATER, 38% MUD

Gravity: 27.9 @ 60 degrees F

Ph: 7.0

RW: .27 @ 76 degrees F

Chlorides: 30,000 ppm



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

<p>DATE November 27 2017</p>
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DST #2	Formation: Lansing"F"	Test Interval: 3797 - 3825'	Total Depth: 3825'
	Time On: 10:08 11/27	Time Off: 17:52 11/27	
	Time On Bottom: 12:13 11/27	Time Off Bottom: 15:48 11/27	

Down Hole Makeup

Heads Up: 10.32 FT	Packer 1: 3792 FT
Drill Pipe: 3661.38 FT <i>ID-3 1/2</i>	Packer 2: 3797 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3784 FT
Collars: 120.78 FT <i>ID-2 1/4</i>	Bottom Recorder: 3799 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 28	Surface Choke: 1"
	Bottom Choke: 5/8"
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 27 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE November 27 2017
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DST #2	Formation: Lansing"F"	Test Interval: 3797 - 3825'	Total Depth: 3825'
	Time On: 10:08 11/27	Time Off: 17:52 11/27	
	Time On Bottom: 12:13 11/27	Time Off Bottom: 15:48 11/27	

Mud Properties

Mud Type: Chemical **Weight:** 8.9 **Viscosity:** 2,000 **Filtrate:** 7.6 **Chlorides:** 2,000 ppm



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

<p>DATE November 27 2017</p>
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DST #2 **Formation:** **Test Interval: 3797 -** **Total Depth: 3825'**
Lansing"F" **3825'**
Time On: 10:08 11/27 Time Off: 17:52 11/27
Time On Bottom: 12:13 11/27 Time Off Bottom: 15:48 11/27

Gas Volume Report

1st Open

2nd Open

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



Company: Mull Drilling Company, Inc
Lease: SLT #1-3

SEC: 3 TWN: 8S RNG: 26W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: Pickrell Drilling Company, Inc. - Rig 10
 Elevation: 2549 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 82

DATE
 November
28
 2017

DST #3 **Formation: Lans "H&I"** **Test Interval: 3841 - 3890'** **Total Depth: 3890'**
 Time On: 07:42 11/28 Time Off: 15:12 11/28
 Time On Bottom: 09:42 11/28 Time Off Bottom: 13:17 11/28

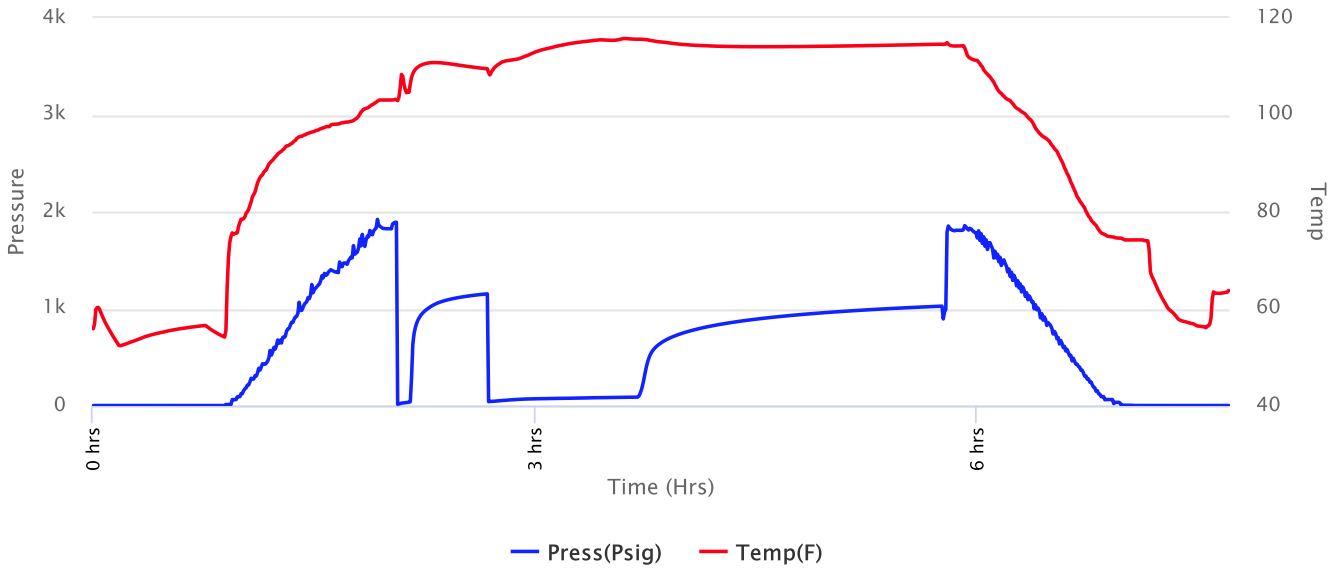
Electronic Volume Estimate:
 173'

1st Open
 Minutes: 5
 2.4" at 5 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 60
 6.9" at 60 min

2nd Close
 Minutes: 120
 0" at 120 min





**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
28
2017

DST #3 **Formation: Lans "H&I"** **Test Interval: 3841 - 3890'** **Total Depth: 3890'**
Time On: 07:42 11/28 Time Off: 15:12 11/28
Time On Bottom: 09:42 11/28 Time Off Bottom: 13:17 11/28

Recovered

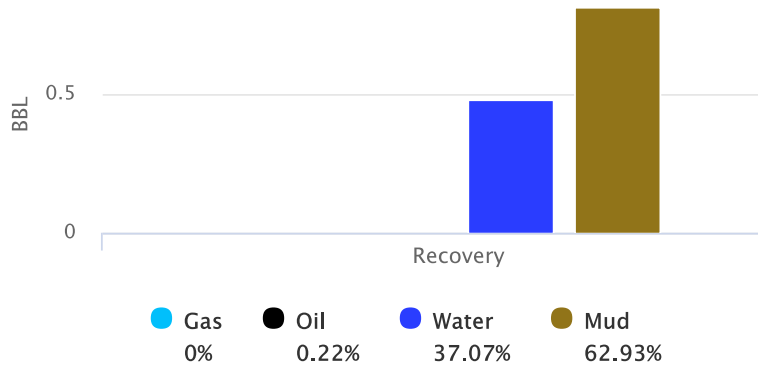
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
110	0.9994382	HWCM (trace oil)	0	.2	30	70
60	0.2952	HMCW (trace oil)	0	.3	61	39

Total Recovered: 170 ft

Total Barrels Recovered: 1.2946382

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	1824	PSI
Initial Flow	14 to 35	PSI
Initial Closed in Pressure	1153	PSI
Final Flow Pressure	40 to 88	PSI
Final Closed in Pressure	1026	PSI
Final Hydrostatic Pressure	1820	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	11.0	%



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

<p>DATE November 28 2017</p>
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DST #3	Formation: Lans "H&I"	Test Interval: 3841 - 3890'	Total Depth: 3890'
	Time On: 07:42 11/28	Time Off: 15:12 11/28	
	Time On Bottom: 09:42 11/28	Time Off Bottom: 13:17 11/28	

REMARKS:

Initial Flow: 2 in. blow.
Initial Shut-in: No blow back.
Final Flow: 6 1/2 in. blow.
Final Shut-in: No blow back.

Tool Sample: Trace oil, 35% water, 65% mud

Ph: 6.0

RW: .27 @ 60 degrees F

Chlorides: 31,000 ppm



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE November 28 2017
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DST #3	Formation: Lans "H&I"	Test Interval: 3841 - 3890'	Total Depth: 3890'
	Time On: 07:42 11/28	Time Off: 15:12 11/28	
	Time On Bottom: 09:42 11/28	Time Off Bottom: 13:17 11/28	

Down Hole Makeup

Heads Up: 28.95 FT	Packer 1: 3835.77 FT
Drill Pipe: 3723.78 FT <i>ID-3 1/2</i>	Packer 2: 3840.77 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3827.77 FT
Collars: 120.78 FT <i>ID-2 1/4</i>	Bottom Recorder: 3878 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 49.23	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.23 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 13 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE November 28 2017
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DST #3	Formation: Lans "H&I"	Test Interval: 3841 - 3890'	Total Depth: 3890'
	Time On: 07:42 11/28	Time Off: 15:12 11/28	
	Time On Bottom: 09:42 11/28	Time Off Bottom: 13:17 11/28	

Mud Properties

Mud Type: Chemical	Weight: 8.9	Viscosity: 57	Filtrate: 7.6	Chlorides: 2,000 ppm
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Company: Mull Drilling Company, Inc
Lease: SLT #1-3

SEC: 3 TWN: 8S RNG: 26W
 County: SHERIDAN
 State: Kansas
 Drilling Contractor: Pickrell Drilling Company, Inc. - Rig 10
 Elevation: 2549 GL
 Field Name: Wildcat
 Pool: WILDCAT
 Job Number: 82

<p>DATE November 28 2017</p>

DST #3 Formation: Lans "H&I" Test Interval: 3841 - 3890' Total Depth: 3890'

Time On: 07:42 11/28 Time Off: 15:12 11/28
 Time On Bottom: 09:42 11/28 Time Off Bottom: 13:17 11/28

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: SLT #1-3**

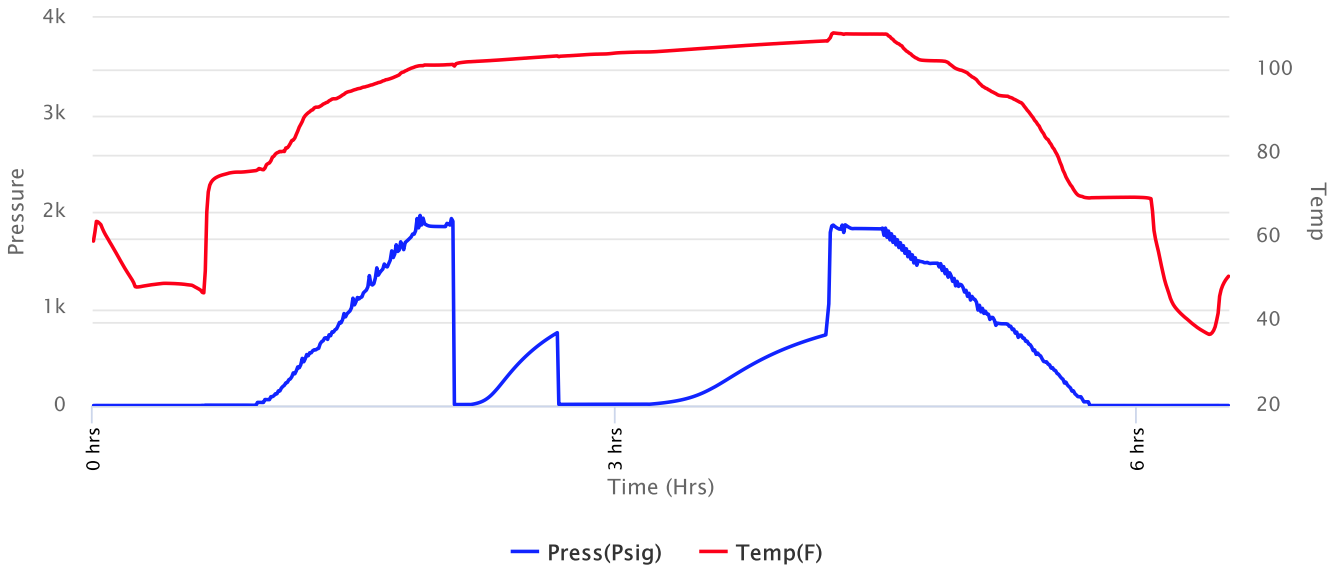
SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
29
2017

DST #4 Formation: Lansing "J&K" Test Interval: 3881 - 3925' Total Depth: 3925'

Time On: 02:16 11/29 Time Off: 08:37 11/29
Time On Bottom: 04:17 11/29 Time Off Bottom: 06:22 11/29

Electronic Volume Estimate:	<u>1st Open</u> Minutes: 5	<u>1st Close</u> Minutes: 30	<u>2nd Open</u> Minutes: 30	<u>2nd Close</u> Minutes: 60
0'	0" at 5 min	0" at 30 min	0" at 30 min	0" at 60 min





**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
29
2017

DST #4 **Formation: Lansing "J&K"** **Test Interval: 3881 - 3925'** **Total Depth: 3925'**
Time On: 02:16 11/29 Time Off: 08:37 11/29
Time On Bottom: 04:17 11/29 Time Off Bottom: 06:22 11/29

Recovered

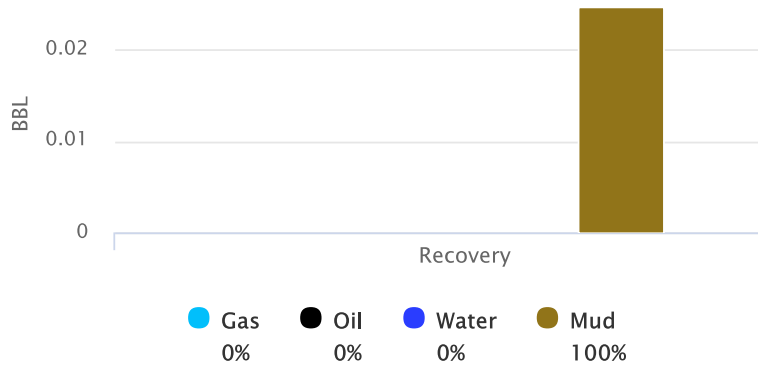
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
5	0.0246	M	0	0	0	100

Total Recovered: 5 ft
Total Barrels Recovered: 0.0246

Reversed Out
NO

Initial Hydrostatic Pressure	1863	PSI
Initial Flow	11 to 11	PSI
Initial Closed in Pressure	753	PSI
Final Flow Pressure	12 to 15	PSI
Final Closed in Pressure	730	PSI
Final Hydrostatic Pressure	1862	PSI
Temperature	107	°F
Pressure Change Initial Close / Final Close	3.0	%

Recovery at a glance





**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

<p>DATE November 29 2017</p>
--

DST #4	Formation: Lansing "J&K"	Test Interval: 3881 - 3925'	Total Depth: 3925'
	Time On: 02:16 11/29	Time Off: 08:37 11/29	
	Time On Bottom: 04:17 11/29	Time Off Bottom: 06:22 11/29	

REMARKS:

IF: 1/4" blow
ISI: No BB
FF: Surface blow
FSI: No BB

Tool Sample: 100% Mud



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE November 29 2017
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DST #4 **Formation: Lansing** **Test Interval: 3881 -** **Total Depth: 3925'**
 "J&K" **3925'**

Time On: 02:16 11/29 Time Off: 08:37 11/29
Time On Bottom: 04:17 11/29 Time Off Bottom: 06:22 11/29

Down Hole Makeup

Heads Up: 20.23 FT	Packer 1: 3875.72 FT
Drill Pipe: 3755.01 FT <i>ID-3 1/2</i>	Packer 2: 3880.72 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3867.72 FT
Collars: 120.78 FT <i>ID-2 1/4</i>	Bottom Recorder: 3918 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 44.28	Surface Choke: 1"
<u>Anchor Makeup</u>	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 2 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.28 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 8 FT <i>4 1/2-FH</i>	



**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE November 29 2017
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DST #4	Formation: Lansing "J&K"	Test Interval: 3881 - 3925'	Total Depth: 3925'
	Time On: 02:16 11/29	Time Off: 08:37 11/29	
	Time On Bottom: 04:17 11/29	Time Off Bottom: 06:22 11/29	

Mud Properties

Mud Type: Chemical	Weight: 8.9	Viscosity: 57	Filtrate: 7.6	Chlorides: 2,000 ppm
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**Company: Mull Drilling
Company, Inc
Lease: SLT #1-3**

SEC: 3 TWN: 8S RNG: 26W
County: SHERIDAN
State: Kansas
Drilling Contractor: Pickrell Drilling
Company, Inc. - Rig 10
Elevation: 2549 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 82

DATE
November
29
2017

DST #4 Formation: Lansing Test Interval: 3881 - Total Depth: 3925'
 "J&K" 3925'
Time On: 02:16 11/29 Time Off: 08:37 11/29
Time On Bottom: 04:17 11/29 Time Off Bottom: 06:22 11/29

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 Co., Inc.
LEASE: 5LT #1-3
ELEVATION: 2556' KB
LOCATION: 603' FSL & 1736' FEL
SEC: 3 TWP: 8 S RGE: 26 W
COUNTY: Sheridan STATE: Kansas
CONTRACTOR: Phil Asbury, Inc. #10
SPUD: 11/21/79
RTD: 4/25/81
LD: 4/25/81
DRILLING TIME KEPT FROM GEOLOGICAL SUPERVISION FROM: 3300'
SAMPLES EXAMINED FROM: 3390'
DRILLING TIME KEPT FROM GEOLOGICAL SUPERVISION FROM: 3300'
GEOLOGIST ON WELL: Phil Asbury, E.G.
FORMER LOG TIPS:

LOG #	DATE	LOGGERS
2167	4/28/79	2167
2168	4/28/79	2167
2169	4/28/79	2167
2170	4/28/79	2167
2171	4/28/79	2167
2172	4/28/79	2167
2173	4/28/79	2167
2174	4/28/79	2167
2175	4/28/79	2167
2176	4/28/79	2167
2177	4/28/79	2167
2178	4/28/79	2167
2179	4/28/79	2167
2180	4/28/79	2167
2181	4/28/79	2167
2182	4/28/79	2167
2183	4/28/79	2167
2184	4/28/79	2167
2185	4/28/79	2167
2186	4/28/79	2167
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2197	4/28/79	2167
2198	4/28/79	2167
2199	4/28/79	2167
2200	4/28/79	2167
2201	4/28/79	2167
2202	4/28/79	2167
2203	4/28/79	2167
2204	4/28/79	2167
2205	4/28/79	2167
2206	4/28/79	2167
2207	4/28/79	2167
2208	4/28/79	2167
2209	4/28/79	2167
2210	4/28/79	2167
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2253	4/28/79	2167
2254	4/28/79	2167
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2256	4/28/79	2167
2257	4/28/79	2167
2258	4/28/79	2167
2259	4/28/79	2167
2260	4/28/79	2167
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2292	4/28/79	2167
2293	4/28/79	2167
2294	4/28/79	2167
2295	4/28/79	2167
2296	4/28/79	2167
2297	4/28/79	2167
2298	4/28/79	2167
2299	4/28/79	2167
2300	4/28/79	2167

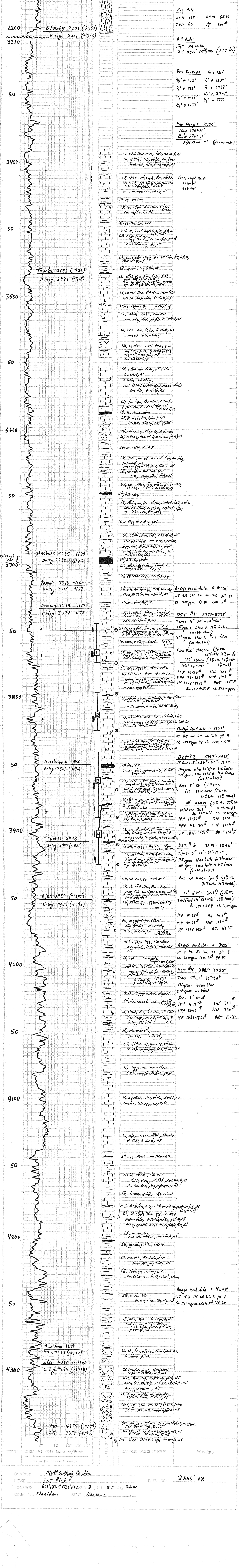
REMARKS:
 The Mull Drilling Co. 5LT #1-3, is structurally low to the key reference well, Ben Tsyper, Nichols #1, located 1/2 mile to the northeast, for the main production zone - Topoka - O/K.
 All sample shows in the Lansing/EC were DST #1 were non-commercial results (DST #1-4). Trace sample shows in the Burlington Topoka were also non-commercial. No other sample shows were noted.
 After review of the E-log, it was decided to plug and abandon this well.

Phil Asbury

LEGEND

	Anhydrite
	Salt
	Sandstone
	Shale
<td>Clay sh.</td>	Clay sh.
	Limestone
	Col. Limestone
	Chert
	Dolomite

SCALE 1" = 100'



COMPANY: Mull Drilling Co., Inc.
LEASE: 5LT #1-3
LOCATION: 603' FSL & 1736' FEL SEC. 3 TWP: 8 S RGE: 26 W
COUNTY: Sheridan STATE: Kansas
ELEVATION: 2556' KB