

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 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	BLOOM 1-3
Doc ID	1371007

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
Sonic

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BLOOM 1-3
Doc ID	1371007

Tops

Name	Top	Datum
Anhydrite	2545	+ 463
B/Anhydrite	2574	+ 434
Heebner Shale	4020	- 1012
Lansing	4062	- 1054
Stark Shale	4284	- 1276
B/KC	4346	- 1338
Marmaton	4375	- 1367
Pawnee	4466	- 1458
Fort Scott	4532	- 1524
Cherokee Shale	4560	- 1552
Cherokee Sand	4614	- 1606
Mississippian	4646	- 1638



0001
8423

TICKET NUMBER 53533
 LOCATION Ogden KS
 FOREMAN Miles Shaw

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

FIELD TICKET & TREATMENT REPORT
 CEMENT

Invoice # 810699 US

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
7-7-17	5659	Bloom 1-3	3	11S	31W	Gove	
CUSTOMER <u>Mull Drilling</u>		Kamp's b/s 1/2W into		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>1700N. Waterfront Parkway, Bldg. 1200</u>				<u>731</u>	<u>Miles S</u>		
CITY <u>Wichita</u>		STATE <u>KS</u>	ZIP CODE <u>67206-6637</u>	<u>479</u>	<u>Spencer</u>		

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 260' CASING SIZE & WEIGHT 5 1/8 24#
 CASING DEPTH 260' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 6.36 WATER gal/sk _____ CEMENT LEFT in CASING 20
 DISPLACEMENT 15.2565 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and response NW drilling Reg #2 Circulate casing m. 1905x
Surface blend # Class A cement w/ 3% calcium 2852 disp 15 1/4 b/s water
Shut in cement did circulate

Thanks Miles Shaw

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	5	MILEAGE	7.15	35.75
CE0811	8.93 TONS	Ton mileage delivery	m. +	666.00
CE5871	190.5x	Surface blend II	23.00	4370.00
			Subtotal	6215.75
			less 30% discount	1864.72
			Subtotal	4351.03
			SALES TAX	260.02
			ESTIMATED TOTAL	4611.05

Ravin 3737

AUTHORIZATION [Signature] TITLE Pusher DATE 7-7-17



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

SEC: 3 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
Job Number: 17

Mobile: 620-617-7261
Email: ray.dtlc@gmail.com

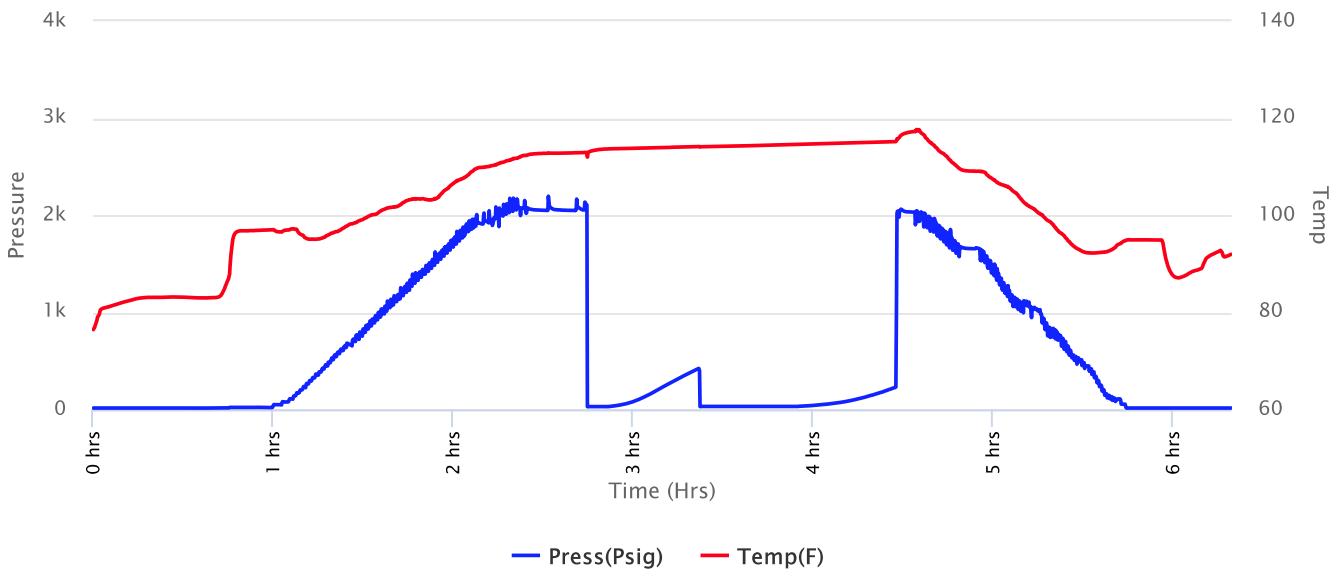
Telephone: 316-522-7338
Mobile: 316-706-6636
Email: kkessler1199@aol.com

DATE
July
12
2017

DST #1 Formation: Lans I/J Test Interval: 4220 - 4285' Total Depth: 4285'

Time On: 10:07 07/12 Time Off: 16:16 07/12
Time On Bottom: 12:47 07/12 Time Off Bottom: 14:22 07/12

Electronic Volume Estimate:	<u>1st Open</u> Minutes: 5	1st Close Minutes: 25	<u>2nd Open</u> Minutes: 30	2nd Close Minutes: 30
20'	.6" at 5 min	0" at 25 min	0" at 30 min	0" at 30 min





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Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
Job Number: 17

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Email: kessler1199@aol.com

DATE
July
12
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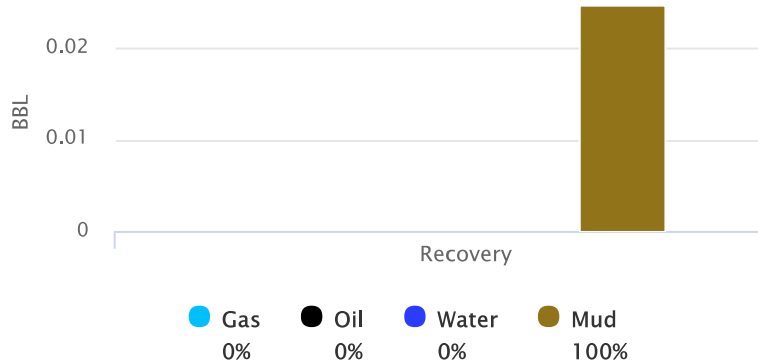
Recovered

<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

Recovery at a glance



Initial Hydrostatic Pressure	2053	PSI
Initial Flow	28 to 27	PSI
Initial Closed in Pressure	421	PSI
Final Flow Pressure	29 to 31	PSI
Final Closed in Pressure	230	PSI
Final Hydrostatic Pressure	2055	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	45.5	%



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Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
Job Number: 17

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DATE
July
12
2017

DST #1 Formation: Lans I/J Test Interval: 4220 - 4285' Total Depth: 4285'
Time On: 10:07 07/12 Time Off: 16:16 07/12
Time On Bottom: 12:47 07/12 Time Off Bottom: 14:22 07/12

Down Hole Makeup

Heads Up: 27.15 FT	Packer 1: 4214.73 FT
Drill Pipe: 4095.98 FT <i>ID-3 1/2</i>	Packer 2: 4219.73 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4204.15 FT
Collars: 118.33 FT <i>ID-2 1/4</i>	Bottom Recorder: 4258 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7.875
Total Anchor: 65.27	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 31.77 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 28 FT <i>4 1/2-FH</i>	



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SEC: 3 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
Job Number: 17

DATE July 12 2017
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DST #1 Formation: Lans I/J Test Interval: 4220 - 4285' Total Depth: 4285'
Time On: 10:07 07/12 Time Off: 16:16 07/12
Time On Bottom: 12:47 07/12 Time Off Bottom: 14:22 07/12

Mud Properties

Mud Type: Chem **Weight:** 9 **Viscosity:** 57 **Filtrate:** 6.4 **Chlorides:** 2000 ppm



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 Time On: 10:07 07/12 Time Off: 16:16 07/12
 Time On Bottom: 12:47 07/12 Time Off Bottom: 14:22 07/12

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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County: GOVE
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Drilling Contractor: WW Drilling, LLC -
Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
Job Number: 17

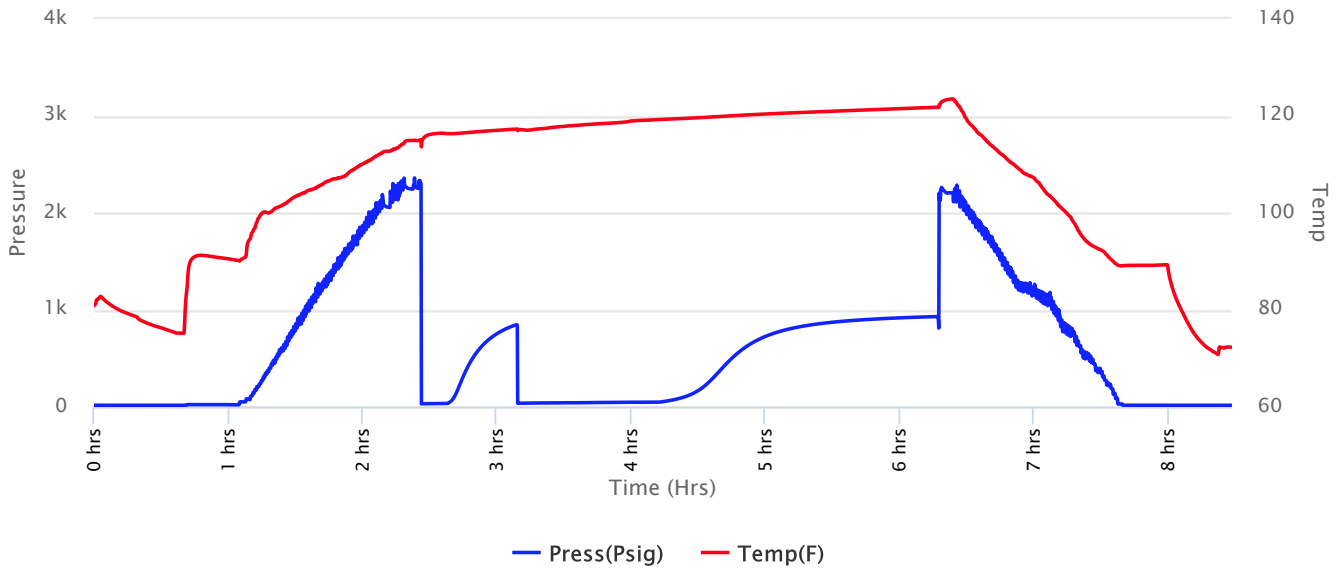
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DATE
July
14
2017

DST #2 **Formation:** Cherokee Sand **Test Interval: 4550 - 4645'** **Total Depth: 4645'**
Time On: 23:06 07/13 Time Off: 07:19 07/14
Time On Bottom: 01:28 07/14 Time Off Bottom: 06:03 07/14

Electronic Volume Estimate: 67'	<u>1st Open</u> Minutes: 5 1.1" at 5 min	<u>1st Close</u> Minutes: 30 0" at 30 min	<u>2nd Open</u> Minutes: 60 .8" at 60 min	<u>2nd Close</u> Minutes: 120 0" at 120 min
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SEC: 3 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
Job Number: 17

DATE
July
14
2017

DST #2 **Formation: Cherokee Sand** **Test Interval: 4550 - 4645'** **Total Depth: 4645'**
Time On: 23:06 07/13 Time Off: 07:19 07/14
Time On Bottom: 01:28 07/14 Time Off Bottom: 06:03 07/14

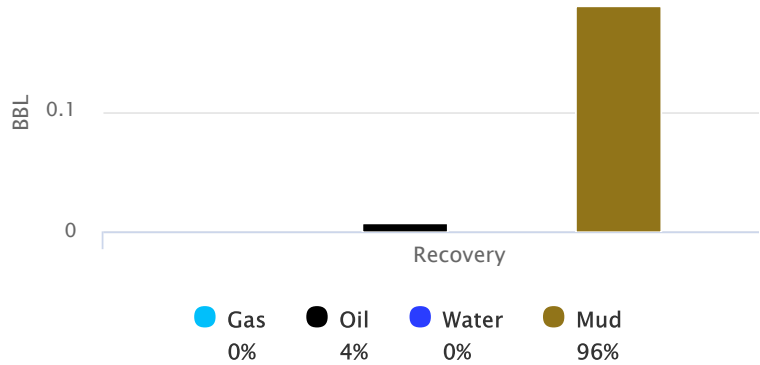
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
40	0.1968	SLOCM	0	4	0	96

Total Recovered: 40 ft
Total Barrels Recovered: 0.1968

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2243	PSI
Initial Flow	28 to 33	PSI
Initial Closed in Pressure	846	PSI
Final Flow Pressure	35 to 47	PSI
Final Closed in Pressure	929	PSI
Final Hydrostatic Pressure	2245	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	0.0	%



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SEC: 3 TWN: 11S RNG: 31W
County: GOVE
State: Kansas
Drilling Contractor: WW Drilling, LLC -
Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
Job Number: 17

DATE July 14 2017
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DST #2	Formation: Cherokee Sand	Test Interval: 4550 - 4645'	Total Depth: 4645'
	Time On: 23:06 07/13	Time Off: 07:19 07/14	
	Time On Bottom: 01:28 07/14	Time Off Bottom: 06:03 07/14	

REMARKS:

Tool sample: 10% O 90% M



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14
2017

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	Time On: 23:06 07/13	Time Off: 07:19 07/14	
	Time On Bottom: 01:28 07/14	Time Off Bottom: 06:03 07/14	

Down Hole Makeup

Heads Up: 14.04 FT	Packer 1: 4545.24 FT
Drill Pipe: 4413.38 FT <i>ID-3 1/2</i>	Packer 2: 4550.24 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 4534.66 FT
Collars: 118.33 FT <i>ID-2 1/4</i>	Bottom Recorder: 0 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7.875
Total Anchor: 94.76	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: .5 FT	
Drill Pipe: (in anchor): 63.26 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 26 FT <i>4 1/2-FH</i>	



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Rig 4
Elevation: 3003 GL
Field Name: Wildcat
Pool: Unnamed
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DATE July 14 2017
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	Time On: 23:06 07/13	Time Off: 07:19 07/14	
	Time On Bottom: 01:28 07/14	Time Off Bottom: 06:03 07/14	

Mud Properties

Mud Type: Chem	Weight: 9.1	Viscosity: 61	Filtrate: 8.8	Chlorides: 2400 ppm
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KEVIN L. KESSLER

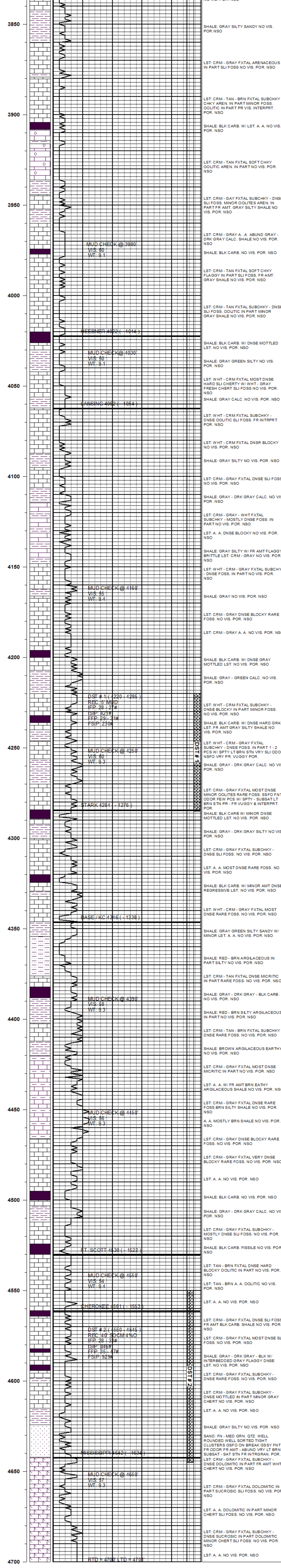
CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : MULL DRILLING CO. INC.		ELEVATION	
LEASE : BLOOM	WELL # : 1 - 3	KB: 3008'	
LOCATION : 2382' FNL & 2128' FWL		GL: 3004'	
SEC : 03	TWP : 11 S	RGE : 31 W	MEASUREMENTS FROM:
COUNTY : GOVE	STATE : KANSAS		KB
CONTRACTOR: W W DRILLING RIG # 2		CASING RECORD:	
COMM: 07 - 07 - 2017	COMP: 07 - 14 - 2017	SURFACE:	
RTD: 4700'	LTD: 4701'	8 5/8" @ 260'	
GEOLOGICAL SUPERVISION FROM: 3800'		PRODUCTION:	
SAMPLES SAVED FROM: 3800'		NONE	

FORMATION:	TOP	LOG	DATUM	TOP	SAMPLE	DATUM	COMP.	ELECTRICAL SURVEYS:
HEEBNER	4022	-	1014	4022	-	1014	- 14	DIL CNL / CDL MICRO SONIC
LANSING	4062	-	1054	4062	-	1054	- 06	
STARK	4284	-	1276	4284	-	1276	- 14	
BASE/ KC	4346	-	1338	4346	-	1338	- 18	
FORT SCOTT	4530	-	1522	4530	-	1522	- 12	
CHEROKEE	4561	-	1553	4561	-	1553	- 15	
MISSISSIPPI	4642	-	1634	4642	-	1634	- 22	

REFERENCE WELL FOR STRUCTURAL COMPARISON:
ABERCROMBIE # 1 BLOOM B 02 - 11 S - 31 W GOVE CO. KS.



COMMENTS :

DUE TO NEGATIVE DST RESULTS THIS WELL WAS PLUGGED AND ABANDONED

KEVIN L. KESSLER