

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	BOUZIDEN UNIT 3-10
Doc ID	1481575

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN UNIT 3-10
Doc ID	1481575

Tops

Name	Top	Datum
Anhydrite	1242	+ 1010
B/Anhydrite	1285	+ 967
Lansing	4560	- 2308
Stark	4977	- 2725
Pawnee	5175	- 2923
Cherokee	5277	- 2975
Morrow	5345	- 3093
Mississippian	5377	- 3125

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN UNIT 3-10
Doc ID	1481575

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	17.5	13.375	48	76	Common	135	2% gel, 3% cc, 1/2# PS
Surface	12.25	8.625	23	619	MDC	125	3% cc, 1/2# PS
Surface	12.25	8.625	23	619	Common	150	2% gel, 3% cc, 1/2# PS
Production	7.875	5.5	17	5428	50/50 Poz	235	10% salt, 2% gel

QUALITY WELL SERVICE, INC.

7163

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410
Fax 620-672-3663

Rich's Cell 620-727-3409
Brady's Cell 620-727-6964

Date	7-11-19	Sec.	10	Twp.	32S	Range	23W	County	Clack	State	Ks	On Location		Finish	
Lease	Bouziden Unit			Well No.	3-10			Location	Ashland Ks 1W 5th W 1/4						
Contractor	DUKE Delg 2g '1							Owner	To Quality Well Service, Inc.						
Type Job	Cnd							You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size	17 1/2			T.D.	97'			Charge To	Mull Drilling Company Inc						
Csg.	13 3/8 48'			Depth	76'			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	15			Shoe Joint	15			Cement Amount Ordered	135 sc Common						
Meas Line				Displace	10.37			21 FEL 3 1/2 CC 1/2 PS							
EQUIPMENT															
Pumptrk	8 No.						Common	135 sc							
Bulktrk	10 No.			JAKE			Poz. Mix								
Bulktrk	No.						Gel.	254 lbs							
Pickup	No.						Calcium	381 lbs							
JOB SERVICES & REMARKS								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal 67.5 lbs							
Centralizers								Kol-Seal							
Baskets								Mud CLR 48							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
Run 2 #16 13 3/8 48' set d 81								Sand							
CS6 on Bottom Hook up to CS6								Handling 143							
Break Circ Wlens								Mileage 65/9295							
START Pumping HES 10 W/L								FLOAT EQUIPMENT							
START Mix Pump 135 sc @ 14.9' / min								Guide Shoe							
START DISP								Centralizer							
12.4 B/L								Baskets							
Close Valve on CS6								AFU Inserts							
Good Circ thru 103								Float Shoe							
Circ out to RT								Latch Down							
								SERVICE SUPV 1 EA							
								LNV 65							
Thank you								Pumptrk Charge Cond							
PLEASE CALL AGAIN								Mileage 130							
TODAY TO JAKE															
Signature								Tax							
								Discount							
								Total Charge							

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6618

Home Office 324 Simpson St., Pratt, KS 67124

Office 620-727-3410

Fax 620-672-3663

Rich's Cell 620-727-3409

Brady's Cell 620-727-6964

Date	7-12-19	Sec.	10	Twp.	32	Range	23	County	CLARK	State	K.S.	On Location	4:45 AM	Finish	
Lease	BOWZDEN		Well No.	3-10		Location additional 1w bar used site									
Contractor	Mull Drilling					Owner Mull Drilling									
Type Job	Surface					To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Hole Size	12 1/2		T.D.	620'											
Csg.	8 1/2		Depth												
Tbg. Size			Depth	Charge To Mull Drilling											
Tool			Depth	Street 1900 N Waterfront PKWY Bldg 1200											
Cement Left in Csg.			Shoe Joint	City WICHITA State K.S.											
Meas Line			Displace	36.75		The above was done to satisfaction and supervision of owner agent or contractor.									
				Cement Amount Ordered		125 sl max 3 1/2" 1/2" PS									
				EQUIPMENT		150 Common 2 1/2" Gel 3 1/2" 1/2" PS									
Pumptrk	6	No.	Rich		Common 150 sl										
Bulktrk	10	No.	TV		Poz. Mix 125 sl										
Bulktrk	11	No.	Water		Gel. 282 lbs										
Pickup		No.			Calcium 776 lb										
				JOB SERVICES & REMARKS		Hulls									
Rat Hole					Salt										
Mouse Hole					Flowseal 137.5 lb.										
Centralizers					Kol-Seal										
Baskets					Mud CLR 48										
D/V or Port Collar					CFL-117 or CD110 CAF 38										
				pumped 10 BBL H2O		Sand									
				125 sl max 3 1/2" 1/2"		Handling 299									
				Pump with 150 sls		Mileage 65/9555									
				Tail cement Disp 36.75		89lb FLOAT EQUIPMENT									
				shut in 4hr		Guide Shoe									
				Gell 1" in 8min		Centralizer									
						Baskets 2 EA									
						AFU Inserts 1 EA BOFFIE Plate									
						Float Shoe 1 EA WOODS AUG.									
						Latch Down									
						SERVICE SPI 1 EA									
						LMV 65									
						Pumptrk Charge SURFACE									
						Mileage 195									
												Tax			
												Discount			
												Total Charge			
X Signature <i>Alb. Cook</i>															



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

Customer:	Mull Drilling Company	Cement Pump No.:	37223 19572 14HRS	Operator TRK No.:	78868
Address:		Ticket #:	1718 19537 L	Bulk TRK No.:	19827 37725 Oscar 19827 37725
City, State, Zip:		Job Type:	Z42 - Cement Production Casing		
Service District:	1718-Liberal KS	Well Type:	OIL		
Well Name and No.:	Bouziden #3-10	Well Location:	10,32,23	County:	Clark
				State:	Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
50/50 Poz	285	10%Salt, .5 Defoamer, 5%Gypsum, .5 Fluid Loss, 5#Gilsonite, 2%Gel	19827 37725 Oscar	Front	Back
			19827 37725	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	13.8	1.52	6.64	433.2	TT Man Hours:	42
Tail:					# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLs)	Pumps		Pressure(Psi)		Description of Operation and Materials
			T	C	Tubing	Casing	
11:00am							Arrived at location
15:30pm							Spot trucks/Rig up
17:08pm						2500	Pressure test lines to 2500psi
17:10pm	3	23				zero	Pump 23bbbls of ultra flush
17:30pm	3	13				zero	Pump 13bbbls to fill rat and mouse hole from 50sks at 13.8lbs
17:41pm	6	63				30	Pump 63sks of cement from 235sks at 13.8lbs
18:02pm							Shut down/Drop plug/Wash pump and lines to pit
18:13pm							Start Displacement of 125bbs of H2O/per comp.man
18:17pm	6	20				40	20bbls gone
18:21pm	6	40				40	40bbls gone
18:25pm	6	60				50	60bbls gone
18:29pm	6	80				50	80bbls gone
18:33pm	6	100				600	100bbls gone
18:36pm	6	115				500	115bbls gone/Slow down rate
18:38pm	3	125				1200	Bump plug/Hold pressure for 5 minutes
18:43pm							Release pressure to check if float holds
							Pressure test casing for 15minutes with psi
							Rig down
							Job completed
							Thanked company man and rig crew

Size Hole	7 7/8	Depth	5424		TYPE	Latch down baffle	
Size & Wt. Csg.	5 1/2 17#	Depth	5427.37	New / Used	Latch Down	5388.37	Depth
Landing Psi	500+	Depth			Retainer		Depth
Shoe Joint	39	Type			Perfs		CIBP

Customer Signature: <i>X W L</i>	Basic Representative:	Victor A. Corona
	Basic Signature:	<i>Victor A. Corona</i>
	Date of Service:	7/22/2019



Company: Mull Drilling
 Company, Inc
 Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
 County: CLARK
 State: Kansas
 Drilling Contractor: Duke Drilling
 Company, Inc - Rig 1
 Elevation: 2240 GL
 Field Name: Big Bear Creek
 Pool: Infield
 Job Number: 373
 API #: 15-025-21609-00-00

Operation:
 Uploading recovery &
 pressures

DATE
 July
17
 2019

DST #1 Formation: Lansing Test Interval: 4600 - Total Depth: 4630'
 B 4630'
 Time On: 14:50 07/17 Time Off: 23:24 07/17
 Time On Bottom: 17:10 07/17 Time Off Bottom: 20:45 07/17

Electronic Volume
 Estimate:
 N/A

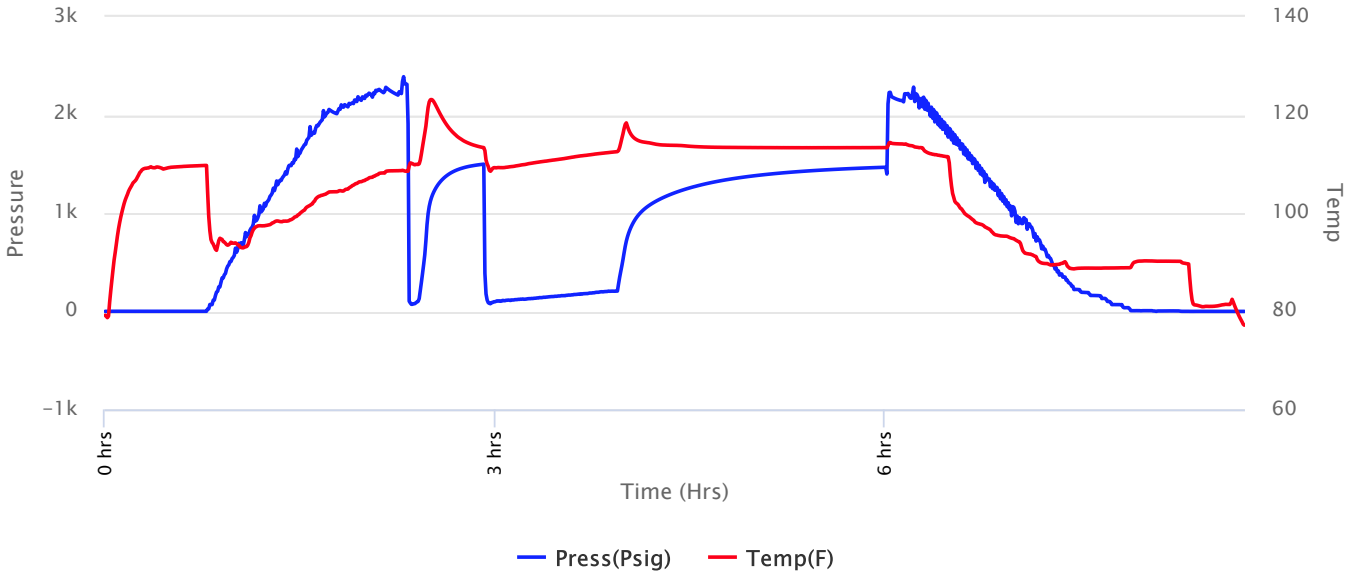
1st Open
 Minutes: 5
 Current Reading:
 199" at 5 min
 Max Reading: 199"

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

2nd Open
 Minutes: 60
 Current Reading:
 Gg" at 60 min
 Max Reading: Gg"

2nd Close
 Minutes: 120
 Current Reading:
 23.5" at 120 min
 Max Reading: 30.6"

Inside Recorder





Company: Mull Drilling Company, Inc

Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 1
Elevation: 2240 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 373
API #: 15-025-21609-00-00

Operation:
Uploading recovery & pressures

DATE
July
17
2019

DST #1 **Formation: Lansing B** **Test Interval: 4600 - 4630'** **Total Depth: 4630'**
Time On: 14:50 07/17 Time Off: 23:24 07/17
Time On Bottom: 17:10 07/17 Time Off Bottom: 20:45 07/17

Recovered

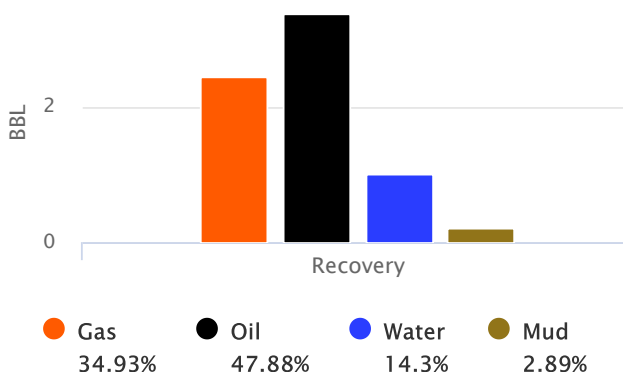
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
118	1.67914	SLWCSTMCO	0	87	3	10
63	0.89649	SLMCSLWCGCO	20	76	3	1
126	1.79298	G	100	0	0	0
63	0.89649	SLMCSLGCWCO	5	65	27	3
63	0.89649	HGCO	30	70	0	0
63	0.89649	SLOGCW	20	3	77	0

Total Recovered: 496 ft
Total Barrels Recovered: 7.05808

Reversed Out
NO

Initial Hydrostatic Pressure	2213	PSI
Initial Flow	70 to 100	PSI
Initial Closed in Pressure	1498	PSI
Final Flow Pressure	77 to 205	PSI
Final Closed in Pressure	1467	PSI
Final Hydrostatic Pressure	2180	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	2.1	%

Recovery at a glance



GIP cubic foot volume: 13.84169



Company: Mull Drilling Company, Inc

Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 1
Elevation: 2240 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 373
API #: 15-025-21609-00-00

Operation:

Uploading recovery & pressures

DATE

July
17
2019

DST #1 Formation: Lansing B Test Interval: 4600 - 4630' Total Depth: 4630'
Time On: 14:50 07/17 Time Off: 23:24 07/17
Time On Bottom: 17:10 07/17 Time Off Bottom: 20:45 07/17

BUCKET MEASUREMENT:

1st Open: 1/4" Bob in 30 sec

1st Close: Nobb

2nd Open: Bob instantly gts in 6 min

2nd Close: Built to 30 1/2"

REMARKS:

tool sample blew out

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

Ph: 7

Measured RW: .1 @ 85 degrees °F

RW at Formation Temp: 0.071 @ 123 °F

Chlorides: 64600 ppm



**Company: Mull Drilling
Company, Inc
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Company, Inc - Rig 1
Elevation: 2240 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 373
API #: 15-025-21609-00-00

Operation:
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DST #1 Formation: Lansing Test Interval: 4600 - Total Depth: 4630'
 B **4630'**
Time On: 14:50 07/17 Time Off: 23:24 07/17
Time On Bottom: 17:10 07/17 Time Off Bottom: 20:45 07/17

Mud Properties

Mud Type: 9.2 Weight: 53 Viscosity: 10 Filtrate: 7200 Chlorides: ppm



Company: Mull Drilling Company, Inc
Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
 County: CLARK
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1
 Elevation: 2240 GL
 Field Name: Big Bear Creek
 Pool: Infield
 Job Number: 373
 API #: 15-025-21609-00-00

Operation:
 Uploading recovery & pressures

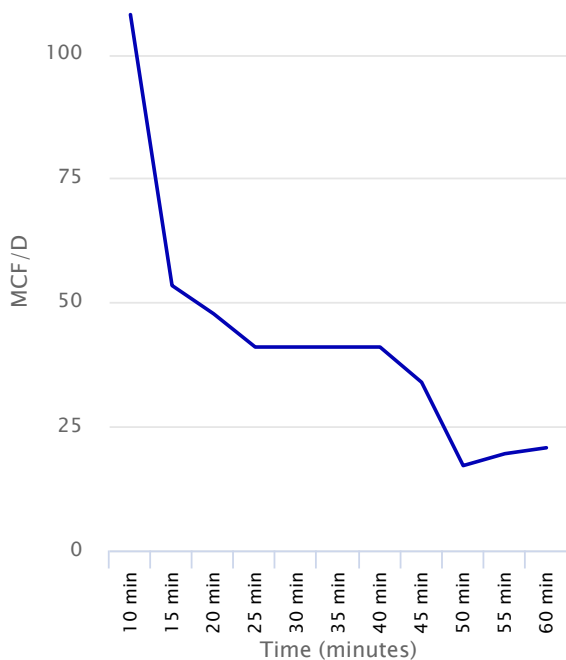
DATE
 July
17
 2019

DST #1 **Formation: Lansing B** **Test Interval: 4600 - 4630'** **Total Depth: 4630'**
 Time On: 14:50 07/17 Time Off: 23:24 07/17
 Time On Bottom: 17:10 07/17 Time Off Bottom: 20:45 07/17

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D
10	0.75	2.0	108
15	0.50	2.5	53.4
20	0.50	2.0	47.7
25	0.50	1.5	41.0
30	0.50	1.5	41.0
35	0.50	1.5	41.0
40	0.50	1.5	41.0
45	0.50	1.0	33.9
50	0.25	3.5	17.1
55	0.25	4.5	19.5
60	0.25	5.0	20.7

2nd Open			
Time	Orifice	PSI	MCF/D





Company: Mull Drilling Company, Inc
Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
 County: CLARK
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1
 Elevation: 2240 GL
 Field Name: Big Bear Creek
 Pool: Infield
 Job Number: 373
 API #: 15-025-21609-00-00

Operation:
 Uploading recovery & pressures

DATE
 July
18
 2019

DST #2 **Formation: Lansing H** **Test Interval: 4790 - 4820'** **Total Depth: 4820'**
 Time On: 16:27 07/18 Time Off: 01:48 07/19
 Time On Bottom: 18:44 07/18 Time Off Bottom: 22:19 07/18

Electronic Volume Estimate:
 N/A

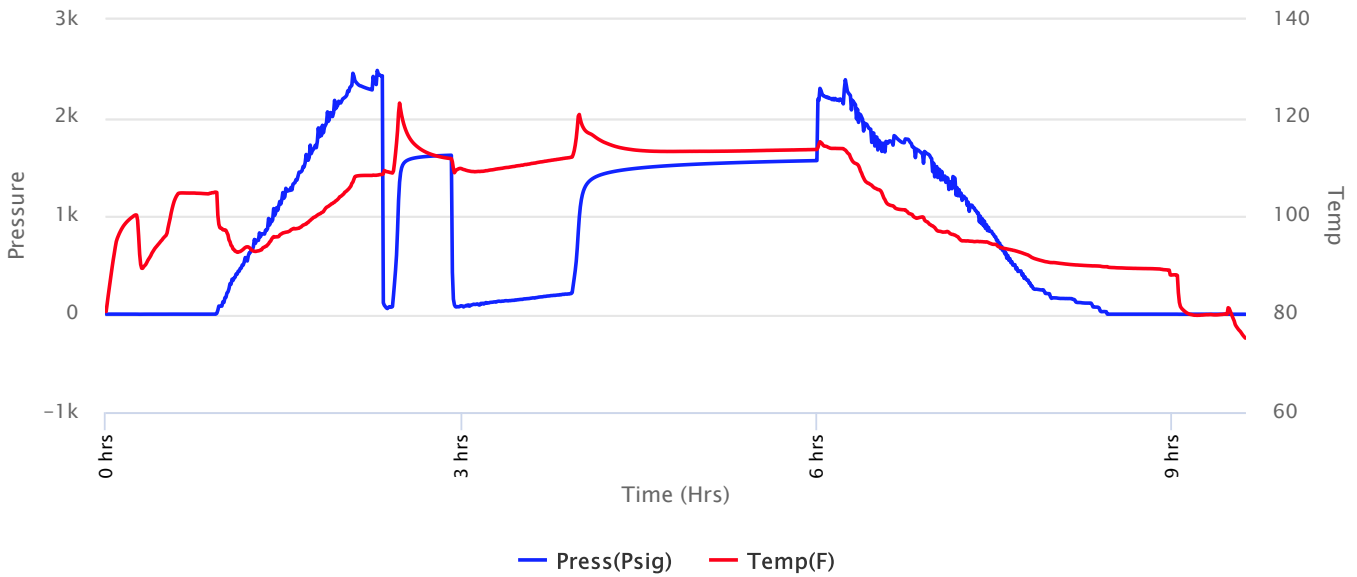
1st Open
 Minutes: 5
 Current Reading:
 234.6" at 5 min
 Max Reading: 234.6"

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

2nd Open
 Minutes: 60
 Current Reading:
 Gg" at 60 min
 Max Reading: Gg"

2nd Close
 Minutes: 120
 Current Reading:
 Bleeding off" at 120 min
 Max Reading: Bleeding off"

Inside Recorder





Company: Mull Drilling Company, Inc
Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
 County: CLARK
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 1
 Elevation: 2240 GL
 Field Name: Big Bear Creek
 Pool: Infield
 Job Number: 373
 API #: 15-025-21609-00-00

Operation:
 Uploading recovery & pressures

DATE
 July
18
 2019

DST #2 **Formation: Lansing H** **Test Interval: 4790 - 4820'** **Total Depth: 4820'**
 Time On: 16:27 07/18 Time Off: 01:48 07/19
 Time On Bottom: 18:44 07/18 Time Off Bottom: 22:19 07/18

Recovered

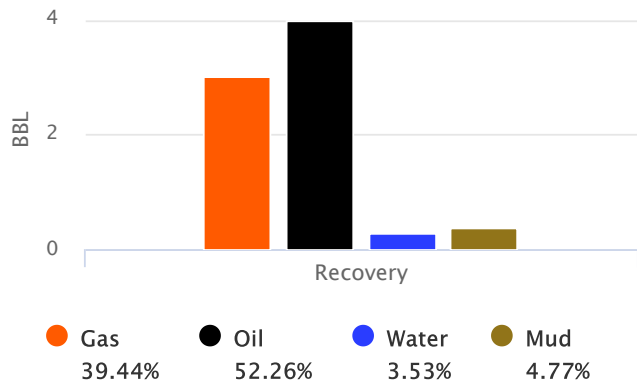
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
94	1.33762	SLMCSLGCO	10	87	0	3
63	0.89649	SLGCSLWCMCO	5	65	10	20
189	2.68947	G	100	0	0	0
63	0.89649	SLWCSLMCO	0	80	10	10
63	0.89649	SLMCSLWCSLGCO	10	77	10	3
63	0.89649	SLMCSLGCO	5	92	0	3

Total Recovered: 535 ft
 Total Barrels Recovered: 7.61305

Reversed Out
 NO

Initial Hydrostatic Pressure	2296	PSI
Initial Flow	57 to 77	PSI
Initial Closed in Pressure	1618	PSI
Final Flow Pressure	76 to 208	PSI
Final Closed in Pressure	1563	PSI
Final Hydrostatic Pressure	2278	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	3.4	%

Recovery at a glance



GIP cubic foot volume: 16.8577



**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 1
Elevation: 2240 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 373
API #: 15-025-21609-00-00

Operation:

Uploading recovery &
pressures

DATE

July
18
2019

DST #2	Formation: Lansing H	Test Interval: 4790 - 4820'	Total Depth: 4820'
	Time On: 16:27 07/18	Time Off: 01:48 07/19	
	Time On Bottom: 18:44 07/18	Time Off Bottom: 22:19 07/18	

BUCKET MEASUREMENT:

1st Open: Bob in 30 sec

1st Close: Nobb

2nd Open: Gts in 3 1/2 min

2nd Close: Could not bleed off so let it bleed out the whole final shut in..

REMARKS:

tool sample blew out.

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



Company: Mull Drilling Company, Inc

Lease: Bouziden Unit #3-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 1
Elevation: 2240 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 373
API #: 15-025-21609-00-00

Operation:
Uploading recovery & pressures

DATE
July
18
2019

DST #2 **Formation: Lansing H** **Test Interval: 4790 - 4820'** **Total Depth: 4820'**
Time On: 16:27 07/18 Time Off: 01:48 07/19
Time On Bottom: 18:44 07/18 Time Off Bottom: 22:19 07/18

Down Hole Makeup

Heads Up: 27.44 FT	Packer 1: 4785 FT
Drill Pipe: 4784.87 FT <i>ID-3 1/2</i>	Packer 2: 4790 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4774.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4792 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
	Surface Choke: 1"
	Bottom Choke: 5/8"

Total Anchor: 30

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/2

Change Over: FT

Perforations: (below): 29 FT
4 1/2-FH



**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #3-10

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Company, Inc - Rig 1
Elevation: 2240 GL
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	Time On: 16:27 07/18	Time Off: 01:48 07/19	
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Mud Properties

Mud Type: Chemical **Weight:** 9.35 **Viscosity:** 50 **Filtrate:** 10 **Chlorides:** 7800 ppm



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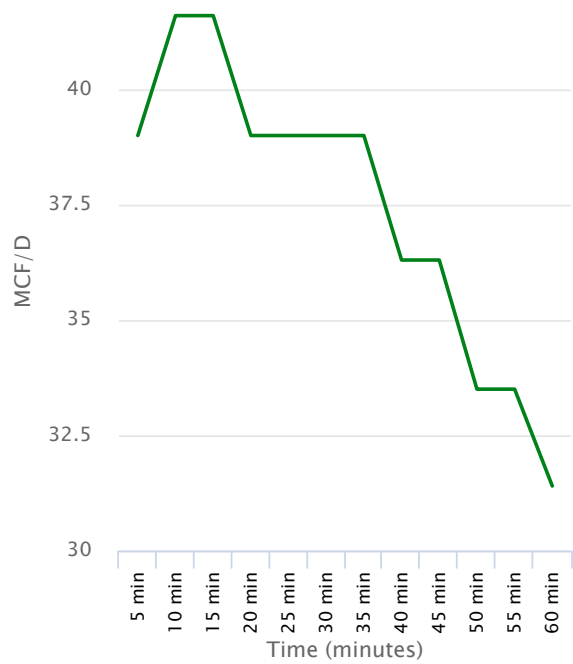
DATE
 July
18
 2019

DST #2 Formation: Lansing H Test Interval: 4790 - 4820' Total Depth: 4820'
 Time On: 16:27 07/18 Time Off: 01:48 07/19
 Time On Bottom: 18:44 07/18 Time Off Bottom: 22:19 07/18

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D
5	0.375	4.0	39.0
10	0.375	4.5	41.6
15	0.375	4.5	41.6
20	0.375	4.0	39.0
25	0.375	4.0	39.0
30	0.375	4.0	39.0
35	0.375	4.0	39.0
40	0.375	3.5	36.3
45	0.375	3.5	36.3
50	0.375	3.0	33.5
55	0.375	3.0	33.5
60	0.375	2.5	31.4





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Company, Inc**
Lease: Bouziden Unit #3-10

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Company, Inc - Rig 1
Elevation: 2240 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 373
API #: 15-025-21609-00-00

Operation:
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DATE
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DST #3 **Formation: Pawnee / myrick** **Test Interval: 5170 - 5200'** **Total Depth: 5200'**
Time On: 10:15 07/20 Time Off: 18:10 07/20
Time On Bottom: 12:23 07/20 Time Off Bottom: 15:58 07/20

Electronic Volume
Estimate:
125'

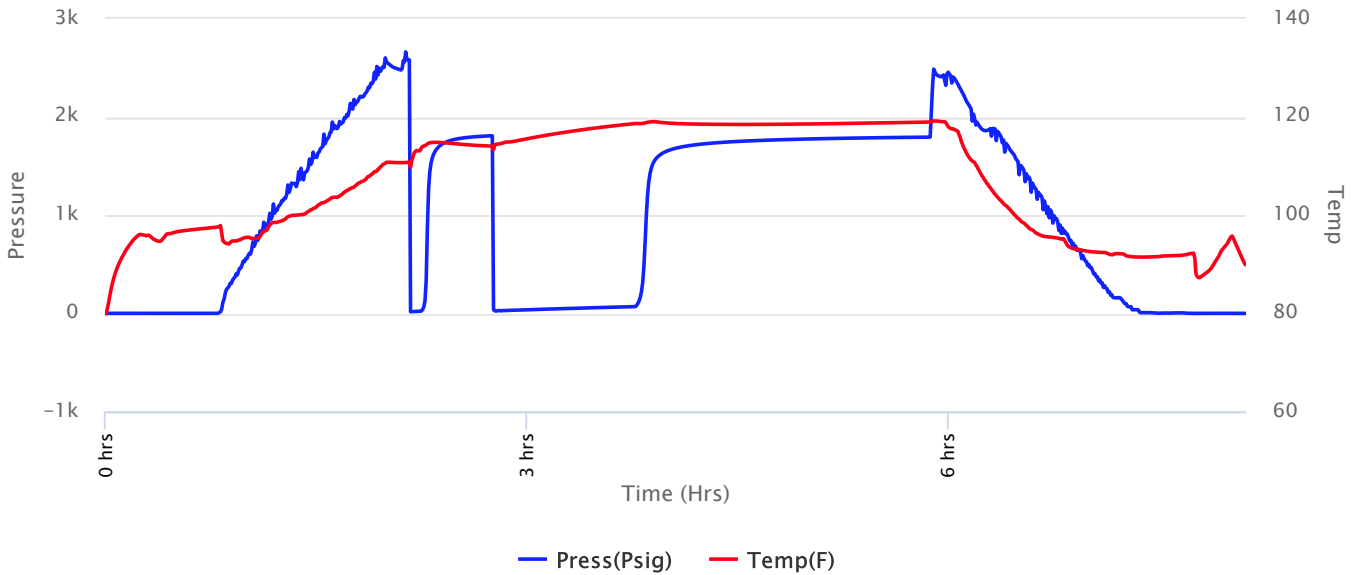
1st Open
Minutes: 5
Current Reading:
1.3" at 5 min
Max Reading: 1.3"

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

2nd Open
Minutes: 60
Current Reading:
7.8" at 60 min
Max Reading: 7.8"

2nd Close
Minutes: 120
Current Reading:
0" at 120 min
Max Reading: 0"

Inside Recorder





**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #3-10

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County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 1
Elevation: 2240 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 373
API #: 15-025-21609-00-00

Operation:
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DST #3 **Formation: Pawnee / myrick** **Test Interval: 5170 - 5200'** **Total Depth: 5200'**
Time On: 10:15 07/20 Time Off: 18:10 07/20
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Recovered

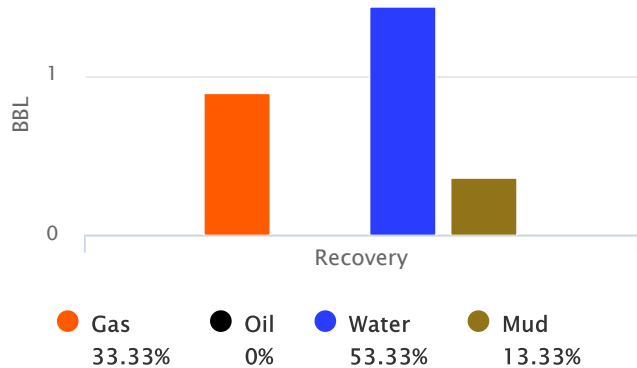
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
63	0.89649	G	100	0	0	0
63	0.89649	HMCW	0	0	70	30
63	0.89649	SLMCW	0	0	90	10

Total Recovered: 189 ft
Total Barrels Recovered: 2.68947

Reversed Out
NO

Initial Hydrostatic Pressure	2482	PSI
Initial Flow	16 to 23	PSI
Initial Closed in Pressure	1808	PSI
Final Flow Pressure	22 to 68	PSI
Final Closed in Pressure	1794	PSI
Final Hydrostatic Pressure	2456	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	0.8	%

Recovery at a glance



GIP cubic foot volume: 5.03334



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Time On: 10:15 07/20 Time Off: 18:10 07/20
Time On Bottom: 12:23 07/20 Time Off Bottom: 15:58 07/20

BUCKET MEASUREMENT:

1st Open: Wsb built to 1 1/4"
1st Close: Nobb
2nd Open: Wsb built to 7 3/4"
2nd Close: Nobb

REMARKS:

Tool Sample: 0% Gas 1% Oil 96% Water 3% Mud

Ph: 7

Measured RW: .1 @ 101 degrees °F

RW at Formation Temp: 0.085 @ 120 °F

Chlorides: 53800 ppm



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DST #3 **Formation: Pawnee / myrick** **Test Interval: 5170 - 5200'** **Total Depth: 5200'**
Time On: 10:15 07/20 Time Off: 18:10 07/20
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Down Hole Makeup

Heads Up: 26.98 FT	Packer 1: 5165 FT
Drill Pipe: 5164.41 FT <i>ID-3 1/2</i>	Packer 2: 5170 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 5154.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 5172 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
	Surface Choke: 1"
	Bottom Choke: 5/8"

Total Anchor: 30

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): FT
4 1/2-FH

Change Over: FT

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Perforations: (below): 29 FT
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Time On: 10:15 07/20 Time Off: 18:10 07/20
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Mud Properties

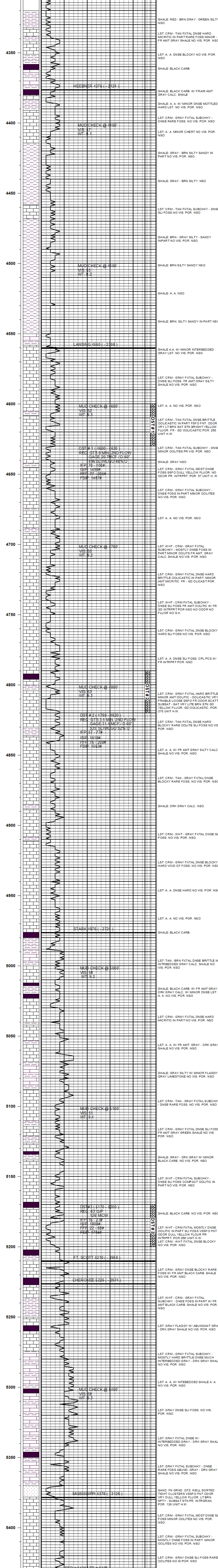
Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 53 **Filtrate:** 9.2 **Chlorides:** 8350 ppm

KEVIN L. KESSLER

CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : MULL DRILLING CO. INC.		ELEVATION	
LEASE : BOUZIDEN UNIT	WELL # : 3 - 10	KB: 2252'	
LOCATION : 1621' FNL & 2315' FEL		GL: 2240'	
SEC : 10	TWP : 32 S	RGE : 23 W	MEASUREMENTS FROM:
COUNTY : CLARK	STATE : KANSAS		KB
CONTRACTOR: DUKE RIG # 1		CASING RECORD:	
COMM: 07 - 10 - 2019		COMP: 07 - 22 - 2019	
RTD: 5430'		LTD: 5426'	
GEOLOGICAL SUPERVISION FROM: 4300'		TO: RTD	
SAMPLES SAVED FROM: 4300'		TO: RTD	
FORMATION:	TOP	LOG	SAMPLE
		DATUM	DATUM
			COMP.
HEEBNER	4376	- 2124	4376 - 2124 + 04
LANSING	4560	- 2308	4560 - 2308 + 02
STARK	4976	- 2724	4976 - 2724 + 04
FORT SCOTT	5210	- 2958	5210 - 2958 FLAT
CHEROKEE	5226	- 2974	5226 - 2974 FLAT
MISSISSIPPI	5378	- 3126	5378 - 3126 - 04
REFERENCE WELL FOR STRUCTURAL COMPARISON:			
MULL # 2-10 BOUZIDEN UNIT 10-32S-23W CLARK CO. KS.			



COMMENTS :
5 1/2" PRODUCTION CASING WAS RUN TO FURTHER TEST THE PRODUCTIVITY OF THIS WELL