

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 2-10
Doc ID	1453636

All Electric Logs Run

CNL/CDL
DIL
MICRO
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN UNIT 2-10
Doc ID	1453636

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	17.500	13.375	48	91	Common	135	3% cc, 2% gel, 1/2# CF
Surface	12.25	8.625	23	648	MDC	125	3%% cc, 1/2# PS
Surface	12.25	8.625	23	648	Common	275	3% cc, 2% gel, 1/2# PS
Surface	12.25	8.625	23	648	Common	125	2% cc
Production	7.875	5.5	15.5	5391	50/50 Poz	235	

QUALITY WELL SERVICE, INC.

6980

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	11-19-13	Sec.	10	Twp.	32S	Range	23W	County	Clark	State	Ks	On Location		Finish	
Lease	Bozzides U.			Well No.	2-10		Location Ashland Ks W on 160 to Rd 16								
Contractor	Duke Dalg. Rig #1						Owner G.W. E. Sinto								
Type Job	Cond.						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	17 1/2		T.D.			92'			Charge To MULL Drilling Co. Inc.						
Csg.	13 3/8 40'		Depth			91'			Street						
Tbg. Size				Depth			City								
Tool				Depth			State								
Cement Left in Csg.	15		Shoe Joint			15			The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line				Displace			11.7			Cement Amount Ordered 1355x Common					
EQUIPMENT												2.1 GAL 3/4" 1/2" CF.			
Pumptrk	9	No.	TS			Common			1355x						
Bulktrk	10	No.	TAKS			Poz. Mix									
Bulktrk		No.				Gel.			3 SX						
Pickup		No.				Calcium			5 SX						
JOB SERVICES & REMARKS												Hulls			
Rat Hole												Salt			
Mouse Hole												Flowseal 67.5			
Centralizers												Kol-Seal			
Baskets												Mud CLR 48			
D/V or Port Collar												CFL-117 or CD110 CAF 38			
Ran 2 H's 13 3/8 40' csg set @ 91'												Sand			
csg on Bottom												Handling 143			
Hook up to csg & Break Circ w/ rig												Mileage 65 / 9295			
Start Pumping H2O @ 13blc												FLOAT EQUIPMENT			
Start mix & Pump 135 SX Common												Guide Shoe			
2.1 GAL 3/4" 1/2" RF.												Centralizer			
Start disp												Baskets			
Pump 11.7 blc total												AFU Inserts			
Close Valve on csg 100'												Float Shoe			
Good Circ thru job												Latch Down			
Circ cut to pit												Service Supervisor			
Thank you												LNAV 605			
Please Call Again												Pumptrk Charge Cond			
TDS TO TAKS												Mileage 130			
Signature Mike Spilner												Tax			
												Discount			
												Total Charge			

QUALITY WELL SERVICE, INC.

6982

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Fax 620-672-3663

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

Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-20-13	10	32S	23W	Clark	Ks		
Lease Baridgen Unit		Well No. 2-10		Location Ashland Ks. 1W to rd 16 6W			
Contractor DKS Dely R. g. #1				Owner E. Sink			
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 1/4		T.D. 650'					
Csg. 8 5/8 23'		Depth 648		Charge To MBL Dely Co Inc			
Tbg. Size		Depth		Street			
Tool		Depth		City State			
Cement Left in Csg. 42.26		Shoe Joint 42.26		The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace 33.31		Cement Amount Ordered 125cc mac 31/11 1/2' PS.			
EQUIPMENT				275cc Common 21/66 31/11 1/2' PS			
Pumptrk 8 No.			Common 275cc + 175 = 450cc				
Bulktrk 12 No.	Dillson		Poz. Mix 125cc mac				
Bulktrk 7 No.	JAKE		Gel. 54				
Pickup No.	1000		Calcium 14 SK + 4 = 18cc				
JOB SERVICES & REMARKS				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal 200			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Pin 15 #1 8 7/8 Csg set 2 648'				Sand			
Csg on Bottom Hook up to csg				Handling 419 + 129 = 548			
Pump 12 Bbl H2O				Mileage 65			
Mix Pump 125cc mac 31/11 1/2' PS				FLOAT EQUIPMENT			
Mix Pump 150cc Common 21/66 31/11 1/2' PS				Guide Shoe 1 EA 3 1/2" Woodrow Plug			
SHUT DOWN Release 8 7/8 W Plug				Centralizer			
SAG U.S.O				Baskets 2 EA BELTS			
Pump 3 EA Bbl H2O				AFU Inserts 1 EA BAFFLE Plate			
Last Plug 500'				Float Shoe Add H2O 2 H2O			
CEMENT DIDN'T CURE				Latch Down 2 7/8 Plug Cent.			
Pump 125cc Common 21/66 31/11 1/2' PS				Service Suspension			
DIDN'T SEE CEMENT				LNU 65			
QURE MORE CEMENT				Pumptrk Charge SURFACE			
				Mileage 130			
				Tax			
				Discount			
				Total Charge			
Signature Mike Reddy							

QUALITY WELL SERVICE, INC.

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Date	Sec.	Twp.	Range	County	State	On Location	Finish
11-21-13	10	32S	23W	CLARK	KS		
Lease	Booziden Unit	Well No.	2-10	Location	Ashland, Ks. 1W to Rd 16 6W		
Contractor	Duke Oils Rig #1			Owner	E & S into		
Type Job	Sx FACE			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 1/4	T.D.	650'	Charge To	Mull Oils Co Inc		
Csg.	B5/A 23'	Depth	648'	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.		Shoe Joint		Cement Amount Ordered			
Meas Line		Displace	38.31				

CEMENT on Log
 Mix Pump 75 cc Common 2 1/2 CC
 SHOT down wash up tek
 Work 2 hrs 5.00 tag CMT 110'
 Mix Pump 50 cc Common 2 1/2 CC
 Circ CMT TO PT Cellar Full
 WAIT 30 mins didn't Fall
 Back up Pump tek
 2 1/2 cc 503
 LEAD 125 cc max 3 1/2 CC 1/2" PS
 TAIL 150 cc Common 2 1/2 CC 3 1/2 CC 1/2" PS
 TOP OFF 503
 125 cc Common 2 1/2 CC 3 1/2 CC 1/2" PS
 75 cc Common 2 1/2 CC
 50 cc Common 2 1/2 CC

Thank you
 PLEASE CALL AGAIN
 TODD TS TAKE P/11/13



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

TMA-47

FIELD SERVICE TICKET
1718 17543 A

DATE _____ TICKET NO. _____

DATE OF JOB: 12-1-18	DISTRICT: Pratt Kansas	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: Mull Drilling Company		LEASE: Bouziden			WELL NO: 2-10				
ADDRESS:		COUNTY: Clark		STATE: KS					
CITY:		STATE:		SERVICE CREW: Fennis, R. Kyp/Wade					
AUTHORIZED BY:		JOB TYPE: 5 1/2 inch long string 2-42							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
166779	1						11-30-18	PM	1130
14916	1						12-1-18	AM	0300
								AM	0900
								AM	1000
								AM	1030
						MILES FROM STATION TO WELL	90		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP104	50/50 Poz	SK	235		2365 00	
CP104	50/50 Poz	SK	50		550 00	
CC105	C-41P	lb	48		192 00	
CC111	Salt	lb	1581		790 50	
CC112	Cement Friction Reducer	lb	72		432 00	
CC113	Gypsum	lb	1200		900 00	
CC148	C-17	lb	120		2400 00	
CC201	Gilsonite	lb	1425		954 75	
CF607	5 1/2 Latch down Plug & Baffle (Blue)	EA	1		400 00	
CF1251	5 1/2 Auto Fill Float shoe (Blue)	EA	1		360 00	
CF1631	5 1/2 Tubularizer (Blue)	EA	12		1320 00	
CF704	Claymax KCL substitute	Gal	5		175 00	
CC151	Mud Fluid	Gal	500		750 00	
E100	Pickup Mileage	M.	90		405 00	
E101	Heavy equipment & Mileage	M.	186		1350 00	
A113	Bulk delivery charge per ton mile	Ton/mi	1080		2700 00	
CF206	Depth charge 5000-6000'	DR	1		2880 00	
CF240	Blending & mixing Service Charge	SK	285		309 00	
CF504	Plug container utilization charge	Sub	1		250 00	
6003	Service supervisor First 8 hrs on loc	EA	1		175 00	
					SUB-TOTAL	175 00
					SUB-TOTAL	14968 25
CHEMICAL / ACID DATA:						
SERVICE & EQUIPMENT					%TAX ON \$	
MATERIALS					%TAX ON \$	
					TOTAL	11381 90

SERVICE REPRESENTATIVE: <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer Mull Drilling Camp		Lease No.		Date 12-1-18	
Lease Bouziden		Well # #2-10			
Field Order # 175413	Station Pratt Kansas 1718	Casing 5 1/2	Depth	County Clark	State KS
Type Job 5 1/2 Long string 2-42			Formation	Legal Description 10-32-23	

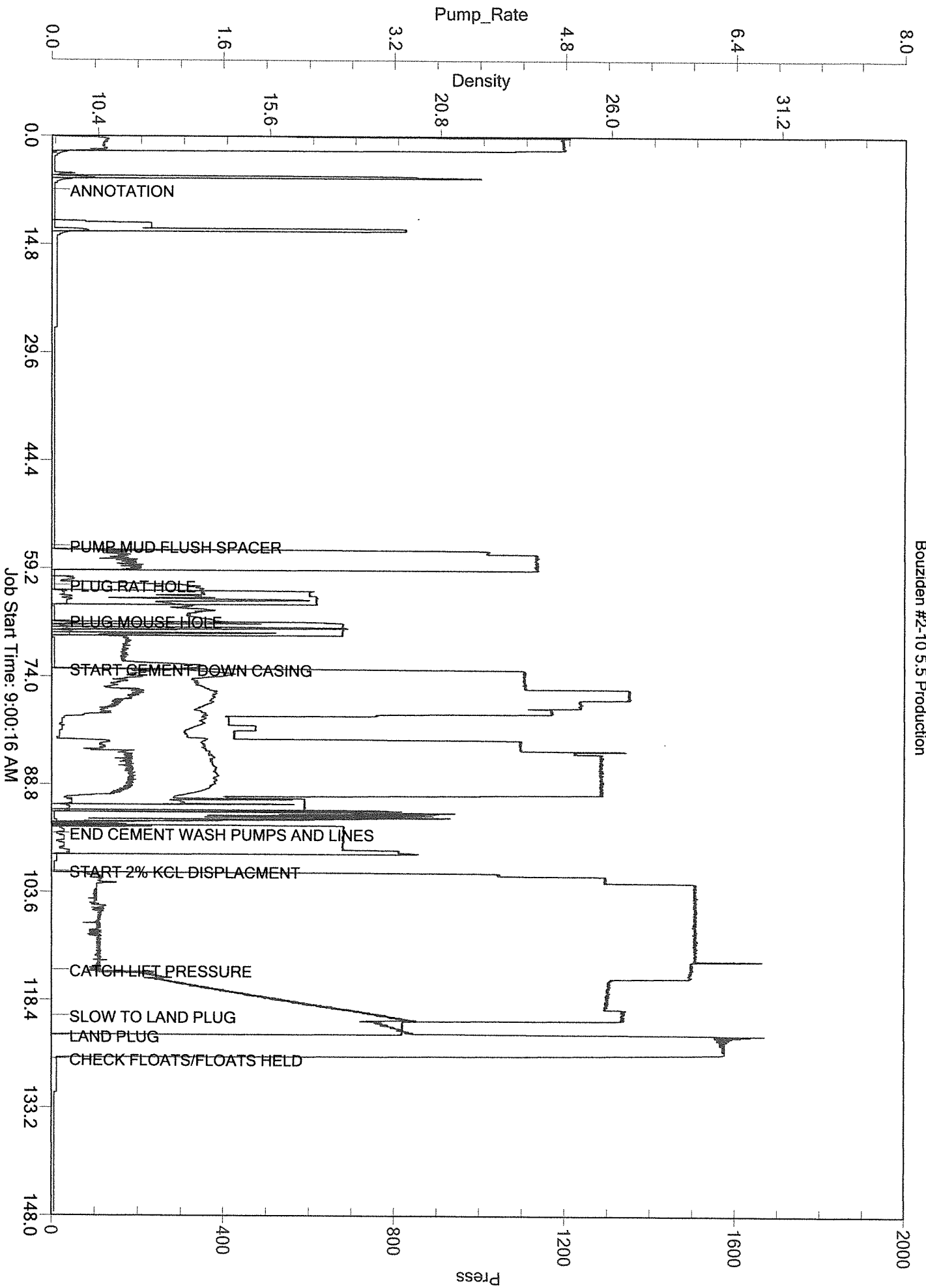
PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
Depth 5390.8	Depth	From	To	Pre Pad		Max		5 Min.
Volume 126.3	Volume	From	To	Pad		Min		10 Min.
Max Press 2500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection 800	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative	Station Manager	Treater
-------------------------	-----------------	---------

Service Units	75568	77686	86774	19960	14916				
Driver Names	Ferris	Riley	Riley	Wade	Wade				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0300					Arrived on location / Safety meeting
0310					Rig up / POC ptment
					Total Pipe RAN - 5390.85' shv - 4343'
					Flt shv / Bottle 3T-1
					Turbolizers - 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23
0701	800				Drop Ball / Blow seat
0855	170		12	4.5	Pump mul Flush
0900	170		5	3	Pump H2O space
0905	60		8	3	Riley RN/MH 50st 50/50 POC 13.6pphr
0910	170		0	4	Start 50/50 POC @ 13.6pphr
0919	170		32	5	117st 50/50 POC away @ 13.6pphr
0928	170		64	3	235st 50/50 POC away @ 13.6pphr
0930					S/D wash pumps + lines
0938	170		0	5	D/P start 2% Kcl displacement
0953	240		80	5	caught lift pressure
1000	750		117	3	slow to land plug
1003	1500		127	3	Land plug
1005					check flows / flows held by 2500 lb ball
1030					Rig down / leave location
					Hor - 2038.83' Tot - 3363.17'
					Thank you! Ferris/Bouziden

Mull Drilling Company
 Bouziden #2-10 S.5 Production





**Company: Mull Drilling
Company, Inc
Lease: Bouziden Unit #2-10**

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2166 Sur
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

Operation:
Test Complete

DATE
November
24
2018

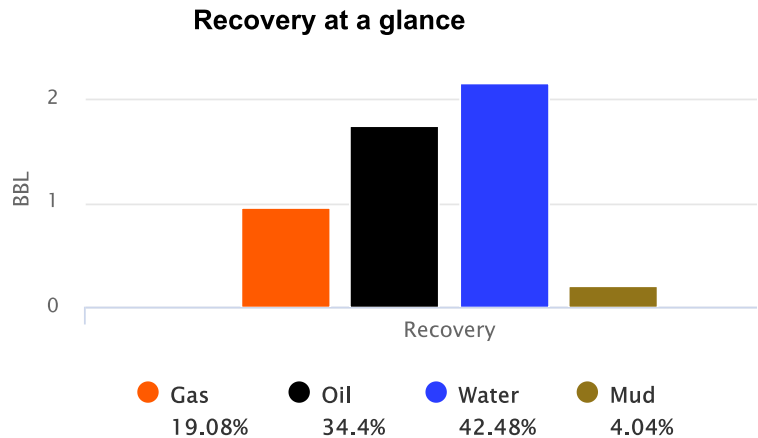
DST #1 Formation: Lansing Test Interval: 4530 - Total Depth: 4550'
B
Time On: 18:05 11/24 Time Off: 03:52 11/25
Time On Bottom: 20:49 11/24 Time Off Bottom: 00:24 11/25

<u>Recovered</u>			<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>	<u>Description of Fluid</u>				
15	0.1935	SLMCO	0	95	0	5
189	2.4381	SLMCSLWCHGCO	35	45	15	5
63	0.8127	SLMCSLGCHWCO	10	53	30	7
126	1.6254	SLMCSLOCSLGCW	2	2	95	1

Total Recovered: 393 ft
Total Barrels Recovered: 5.0697

Reversed Out
NO

Initial Hydrostatic Pressure	2164	PSI
Initial Flow	46 to 58	PSI
Initial Closed in Pressure	1529	PSI
Final Flow Pressure	55 to 198	PSI
Final Closed in Pressure	1530	PSI
Final Hydrostatic Pressure	2124	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%





**Company: Mull Drilling
Company, Inc
Lease: Bouziden Unit #2-10**

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2166 Sur
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

Operation:
Test Complete

DATE
November
24
2018

DST #1	Formation: Lansing B	Test Interval: 4530 - 4550'	Total Depth: 4550'
	Time On: 18:05 11/24	Time Off: 03:52 11/25	
	Time On Bottom: 20:49 11/24	Time Off Bottom: 00:24 11/25	

BUCKET MEASUREMENT:

1st Open: Bob in 1 min built to 87"
1st Close: Built to wsb
2nd Open: Bob instantly gas to surface in 15 min.
2nd Close: built to 65.3"

REMARKS:

Tool Sample: 0% Gas 0% Oil 0% Water 0% Mud
Ph: 7
Measured RW: .2 @ 42 degrees °F
RW at Formation Temp: 0.081 @ 113 °F
Chlorides: 65000 ppm



**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #2-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2166 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

Operation:
Test Complete

DATE
November
26
2018

DST #3 Formation: Lans "F" Test Interval: 4720 - 4750' Total Depth: 4750'

Time On: 12:47 11/26 Time Off: 05:21 11/27
Time On Bottom: 15:03 11/26 Time Off Bottom: 19:48 11/26

Electronic Volume
Estimate:
N/A

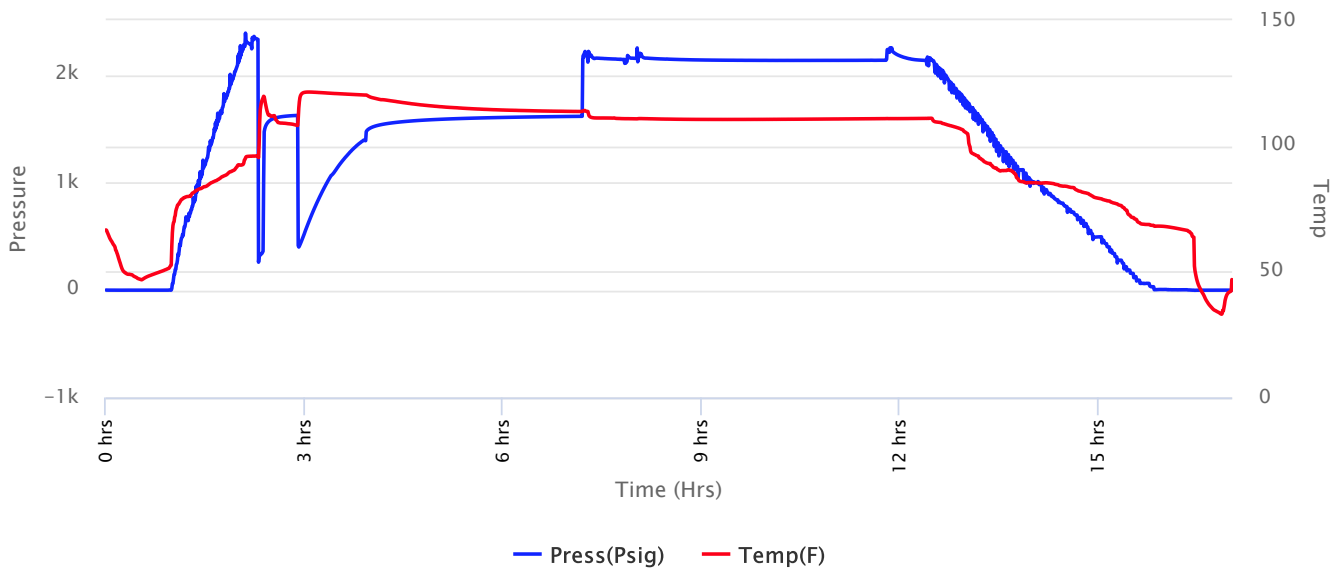
1st Open
Minutes: 5
Current Reading:
91.9" at 5 min
Max Reading: 91.9"

1st Close
Minutes: 30
Current Reading:
.5" at 30 min
Max Reading: .7"

2nd Open
Minutes: 60
Current Reading:
Gauging Gas" at 60 min
Max Reading: GTS"

2nd Close
Minutes: 190
Current Reading:
Gauge maxed out" at
190 min
Max Reading: Gauge
maxed out"

Inside Recorder





**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #2-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2166 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

Operation:
Test Complete

DATE
November
26
2018

DST #3 Formation: Lans "F" Test Interval: 4720 - 4750' Total Depth: 4750'

Time On: 12:47 11/26 Time Off: 05:21 11/27
Time On Bottom: 15:03 11/26 Time Off Bottom: 19:48 11/26

Recovered

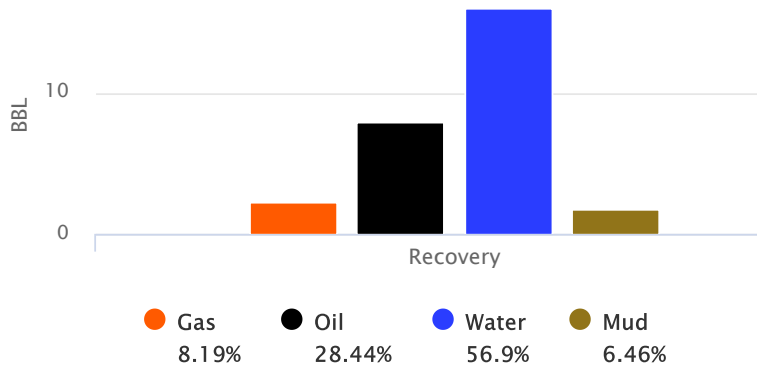
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
93	1.1997	SLGCSLMCHOCW	5	35	50	10
441	5.6889	SLGCSLMCHWCO	5	55	30	10
504	6.5016	SLMCGCWCO	20	45	25	10
252	3.2508	SLMCGCHWCO	20	40	35	5
756	9.7524	SLOCSLMCW	0	2	95	3
126	1.6254	SLMCW	0	0	99	1

Total Recovered: 2172 ft
Total Barrels Recovered: 28.0188

**Reversed Out
YES**

Initial Hydrostatic Pressure	2289	PSI
Initial Flow	258 to 361	PSI
Initial Closed in Pressure	1624	PSI
Final Flow Pressure	399 to 1395	PSI
Final Closed in Pressure	1615	PSI
Final Hydrostatic Pressure	2212	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	0.5	%

Recovery at a glance





**Company: Mull Drilling
Company, Inc
Lease: Bouziden Unit #2-10**

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2166 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

Operation:
Test Complete

DATE
November
26
2018

DST #3 Formation: Lans "F" Test Interval: 4720 - Total Depth: 4750'
4750'

Time On: 12:47 11/26 Time Off: 05:21 11/27
Time On Bottom: 15:03 11/26 Time Off Bottom: 19:48 11/26

BUCKET MEASUREMENT:

1st Open: BOB in 20 secs.
1st Close: .7 in. blow back.
2nd Open: BOB in 1 min.
2nd Close: BOBB in 2 mins.

REMARKS:

Strong blow back still present after 190 mins of shut in.

Gradient calculation shows 782' of recovery lost down hole during circulation attempt. Recovery lost down hole reflects the last 126' of recovery attained (99% Water 1% Mud).

Tool Sample: 80% Gas 20% Oil 0% Water 0% Mud

Ph: 7

Measured RW: .6 @ 26 degrees °F

RW at Formation Temp: 0.153 @ 122 °F

Chlorides: 32,000 ppm



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Down Hole Makeup

Heads Up: 8.40000000000003 FT	Packer 1: 4715 FT
Drill Pipe: 4695.83 FT <i>ID-3.640</i>	Packer 2: 4720 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4704.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4723 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
Total Anchor: 30	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 1 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3.640</i>	
Change Over: FT	
Perforations: (below): 28 FT <i>4 1/2-FH</i>	



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4750'

Time On: 12:47 11/26 Time Off: 05:21 11/27
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Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 62 **Filtrate:** 10.4 **Chlorides:** 11,600 ppm



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DST #3 Formation: Lans "F" Test Interval: 4720 - 4750' Total Depth: 4750'
Time On: 12:47 11/26 Time Off: 05:21 11/27
Time On Bottom: 15:03 11/26 Time Off Bottom: 19:48 11/26

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D
40	0.0625	4.0	1.772
45	0.0625	Too weak to measure	Weak
45	0.0625	8.0	2.608
50	0.0625	12	3.299
55	0.0625	17	
60	0.0625	19	

MCF/D



**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #2-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
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Company, Inc - Rig 2
Elevation: 2166 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

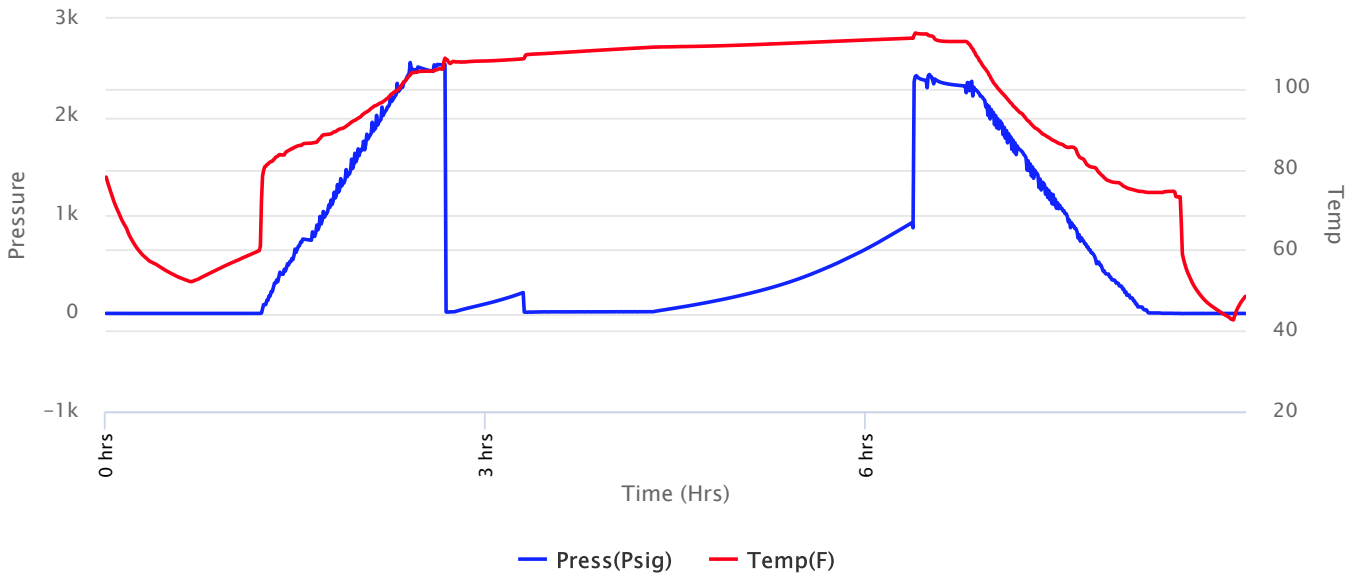
Operation:
Uploading recovery &
pressures

DATE
November
28
2018

DST #4 **Formation:** Marmaton, pawnee **Test Interval: 5055 - 5105'** **Total Depth: 5105'**
Time On: 17:05 11/28 Time Off: 01:20 11/29
Time On Bottom: 19:12 11/28 Time Off Bottom: 22:47 11/28

Electronic Volume Estimate: 65'	<u>1st Open</u> Minutes: 5 Current Reading: .25" at 5 min Max Reading: .25"	<u>1st Close</u> Minutes: 30 Current Reading: 0" at 30 min Max Reading: 0"	<u>2nd Open</u> Minutes: 60 Current Reading: 4.6" at 60 min Max Reading: 4.6"	<u>2nd Close</u> Minutes: 120 Current Reading: 0" at 120 min Max Reading: 0"
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Inside Recorder





Company: Mull Drilling Company, Inc

Lease: Bouziden Unit #2-10

SEC: 10 TWN: 32S RNG: 23W
 County: CLARK
 State: Kansas
 Drilling Contractor: Duke Drilling Company, Inc - Rig 2
 Elevation: 2166 GL
 Field Name: Big Bear Creek
 Pool: Infield
 Job Number: 270

Operation:

Uploading recovery & pressures

DATE

November
28
 2018

DST #4

Formation:
 Marmaton, pawnee

Test Interval: 5055 - 5105'

Total Depth: 5105'

Time On: 17:05 11/28

Time Off: 01:20 11/29

Time On Bottom: 19:12 11/28

Time Off Bottom: 22:47 11/28

Recovered

Foot	BBLS
30	0.387

Description of Fluid

M

Gas %

0

Oil %

0

Water %

0

Mud %

100

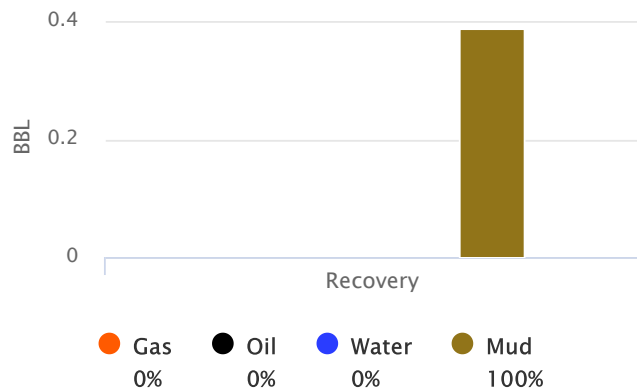
Total Recovered: 30 ft

Total Barrels Recovered: 0.387

Reversed Out
 NO

Initial Hydrostatic Pressure	2467	PSI
Initial Flow	13 to 15	PSI
Initial Closed in Pressure	211	PSI
Final Flow Pressure	11 to 15	PSI
Final Closed in Pressure	923	PSI
Final Hydrostatic Pressure	2421	PSI
Temperature	113	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #2-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2166 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

Operation:

Uploading recovery &
pressures

DATE

November

28

2018

DST #4	Formation: Marmaton, pawnee	Test Interval: 5055 - 5105'	Total Depth: 5105'
	Time On: 17:05 11/28	Time Off: 01:20 11/29	
	Time On Bottom: 19:12 11/28	Time Off Bottom: 22:47 11/28	

BUCKET MEASUREMENT:

1st Open: Wsb built to 1/4"

1st Close: Nobb

2nd Open: 1/2" built to 4.6"

2nd Close: Nobb

REMARKS:

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



**Company: Mull Drilling
Company, Inc**
Lease: Bouziden Unit #2-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling
Company, Inc - Rig 2
Elevation: 2166 GL
Field Name: Big Bear Creek
Pool: Infield
Job Number: 270

Operation:
Uploading recovery &
pressures

DATE
November
28
2018

DST #4 **Formation:** **Test Interval: 5055 -** **Total Depth: 5105'**
Marmaton, pawnee **5105'**
Time On: 17:05 11/28 Time Off: 01:20 11/29
Time On Bottom: 19:12 11/28 Time Off Bottom: 22:47 11/28

Mud Properties

Mud Type: Chemical **Weight:** 9.35 **Viscosity:** 62 **Filtrate:** 11.6 **Chlorides:** 12300 ppm

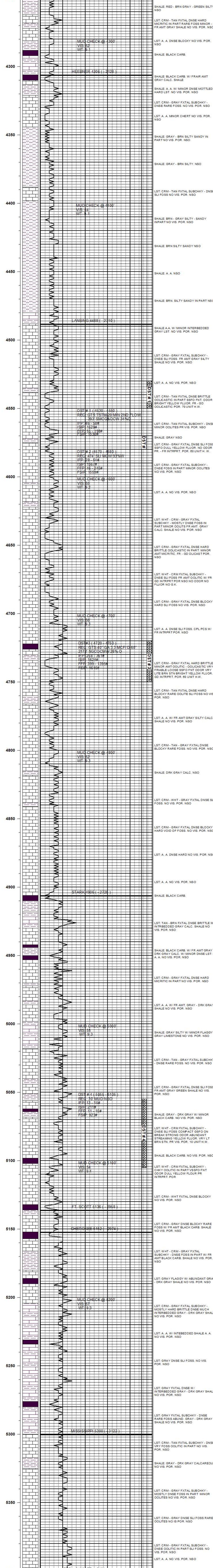
KEVIN L. KESSLER

CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : MULL DRILLING CO. INC.		ELEVATION	
LEASE : BOUZIDEN UNIT	WELL # : 2 - 10	KB: 2178'	
LOCATION : 702' FNL & 385' FEL		GL: 2166'	
SEC : 10	TWP : 32 S	RGE : 23 W	MEASUREMENTS FROM:
COUNTY : CLARK		STATE : KANSAS	
CONTRACTOR: DUKE DRILLING RIG # 1		CASING RECORD:	
COMM: 11 - 12 - 2018	COMP: 11 - 30 - 2018	SURFACE:	
RTD: 5400'	LTD: 5401	8 5/8" @ 648'	
GEOLOGICAL SUPERVISION FROM: 4250'		PRODUCTION:	
SAMPLES SAVED FROM: 4250'		5.5" @ 5400'	

FORMATION:	TOP	LOG	DATUM	TOP	SAMPLE	DATUM	COMP.	ELECTRICAL SURVEYS:
HEEBNER	4306	-	2128	4306	-	2128	+ 01	DIL CNL/CDL MICRO SONIC
LANSING	4488	-	2310	4488	-	2310	+ 03	
STARK	4906	-	2728	4906	-	2728	+ 09	
FORT SCOTT	5136	-	2958	5136	-	2958	+ 12	
CHEROKEE	5152	-	2974	5152	-	2974	+ 13	
MISSISSIPPI	5300	-	3122	5300	-	3122	+ 02	
REFERENCE WELL FOR STRUCTURAL COMPARISON:								
MULL DRLG. 1-10 BOUZIDEN UNIT 10-32S-32W CLARK CO. KS								



COMMENTS :

5 1/2" PROD. CASING WAS SET TO FURTHER EVALUATE THIS WELL



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

PRESSURE PUMPING

Job Log

Customer:	MULL	Cement Pump No.:	38117, 19919 5.5Hrs.	Operator TRK No.:	96816
Address:	1700 North Waterfront Parkway bldg	Ticket #:	1718 17217 L	Bulk TRK No.:	14355, 37725 Marc 14355, 37725
City, State, Zip:	Wichita Ks 67206	Job Type:	Z41 - SQUEEZE PERFS		
Service District:	1718 - Liberal, Ks.	Well Type:	OIL		
Well Name and No.:	BOUZIDEN 2-10	Well Location:	10,32,23	County:	Clark State: Ks

Type of Cmt	Sacks	Additives	Truck Loaded On		
Premium / Common	25	0.5 C-17, 1/4# C-41P	14355, 37725 Marc	Front	Back
Premium / Common	50	Neat	14355, 37725	Front	Back
				Front	Back

Lead/Tail:	Weight #1 Gal.	Cu/Ft/sk	Water Requirements	CU. FT.	Man Hours / Personnel	
Lead:	15.4	1.18	5.18	29.5	TT Man Hours:	35.5
Tail:	16.4	1.06	4.35	53	# of Men on Job:	3

Time (am/pm)	(BPM)	Volume (BBLS)	Pumps		Pressure(PSI)		Description of Operation and Materials
			T	C	Tubing	Casing	
14:15							ON LOCATION & SAFETY MEETING
14:30							RIG UP
3:19 PM		0.5				500	LOAD BS W/ 0.5BBL PRESSURE UP TO 500PSI
3:22 PM							PRESSURE TEST TO 2700PSI
3:24 PM	2.2	17				170	GET AN INJECTION RATE / LOAD W/ 17BBL
15:36	1.8	20				260	1.8BPM @ 260PSI
15:42	2	5.2 slurry				20	PUMP 25SX LEAD @ 15.4#
3:47 PM	2	9.4 slurry					PUMP 50SX TAIL @ 16.4#
16:00							SHUTDOWN / WP
16:05		1 THRU 14					DISPLACE / ON VACUUM 1BPM
		14.5					0.5BPM
16:20	0.5	15				90	ENGAGE PUMP
	0.5	17				650	
	0.5	18.5				2000	
16:50							RELEASE BACK
17:02	2	40				420	REVERSE OUT
17:25							SHUTDOWN / RUN IN TB
17:42	3	100				470	REVERSE OUT
18:40							SHUTDOWN / PULL TB
							JOB COMPLETE

Size Hole	7 7/8"	Depth		TYPE	Swage		
Size & Wt. Csg.	5 1/2" 15.5#	Depth	New / Used	Packer	4662'	Depth	
tbg.	2 7/8" 6.5#	Depth		Retainer		Depth	
Top Plugs		Type		Perfs	4736' - 4734'	CIBP	

Customer Signature: <i>[Signature]</i>	Basic Representative:	Daniel Beck
	Basic Signature:	<i>Daniel Beck</i>
	Date of Service:	2/5/2019

Mull Bouziden #2-10

