

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN UNIT 1-10
Doc ID	1376920

All Electric Logs Run

CDL/CNL
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN UNIT 1-10
Doc ID	1376920

Tops

Name	Top	Datum
Anhydrite	1224	+ 1003
B/Anhydrite	1266	+ 961
Heebner Shale	4356	- 2129
Lansing	4540	- 2313
Stark Shale	4954	- 2727
Hushpuckney	5000	- 2773
B/KC	5062	- 2835
Pawnee	5161	- 3134
Cherokee Shale	5214	- 2987
Morrow Shale	5335	- 3108
Mississippian	5361	- 3134
Chester Sand	5385	- 3158

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN UNIT 1-10
Doc ID	1376920

#### 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	89	Common	120	3% cc, 2% gel
Surface	12.25	8.625	23	610	65/35	275	3% cc, 2% gel
Surface	12.25	8.625	23	610	Common	250	3% cc, 2% gel
Production	7.875	5.5	15.5	5384	50/50 Poz	235	

# QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6712

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	9-7-17	Sec.	10	Twp.	32	Range	23	County	Clack	State	Ks	On Location	9:00AM	Finish	11:45
Lease	Bouziden Unit			Well No.	1-10			Location	Ashland 1W to Rd 16 - N 6.2 miles west into						
Contractor	Duke								Owner	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.					
Type Job	Surface Conductor								Charge To	Mull Drilling					
Hole Size	17.5			T.D.	95'			Depth	76.48						
Csg.	13 3/8			Depth											
Tbg. Size				Depth											
Tool				Depth											
Cement Left in Csg.	15'			Shoe Joint	8 5/8 - 13'			The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	10 bbls			Cement Amount Ordered	120 sx Common						
<b>EQUIPMENT</b>								3%cc 2% Gel							
Pumptrk	8	No.	Mite					Common	120						
Bulktrk	10	No.	Dovic					Poz. Mix							
Bulktrk		No.						Gel.	2						
Pickup		No.						Calcium	4						
<b>JOB SERVICES &amp; REMARKS</b>								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal							
Centralizers								Kol-Seal							
Baskets								Mud CLR 48							
D/V or Port Collar								CFL-117 or CD110 CAF 38							
Ran 2 jts 13 3/8 broke circulation mixed 120 sx common 3%cc 2% Gel. Displaced with 10 bbls H <sub>2</sub> O shut in cement did circulate to surface								Sand							
								Handling 120							
								Mileage 90							
<b>FLOAT EQUIPMENT</b>															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								LMV 90							
								Service supervisor							
								Pumptrk Charge Conductor							
								Mileage 180							
X Signature <i>Kenneth M. Lue</i>								Tax							
								Discount							
								Total Charge							

# QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

6714

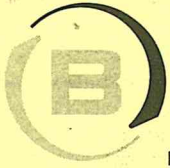
Home Office 324 Simpson St., Pratt, KS 67124

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

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

Date	9-8-17	Sec.	10	Twp.	32	Range	23	County	clark	State	Ks	On Location	6:30 AM	Finish	7:45 2:15				
Lease	Bouziden Unit		Well No.	1-10		Location													
Contractor	Duke							Owner											
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.																
Csg.	8 5/8		Depth		610		Charge To									mull Drilling			
Tbg. Size			Depth		Street														
Tool			Depth		City													State	
Cement Left in Csg.	20'		Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.														
Meas Line			Displace		37.5		Cement Amount Ordered									275 65/35 3%cc 2% gel 1/4 C.F.			
<b>EQUIPMENT</b>							150sx Common 2%cc 2% gel - 100sx Common 5%cc 1/4 C.F.												
Pumptrk	8	No.					Common									425			
Bulktrk	10	No.					Poz. Mix									100			
Bulktrk	9	No.					Gel.									4			
Pickup		No.					Calcium									27			
<b>JOB SERVICES &amp; REMARKS</b>							Hulls												
Rat Hole							Salt												
Mouse Hole							Flowseal									18875			
Centralizers							Kol-Seal												
Baskets							Mud CLR 48												
D/V or Port Collar							CFL-117 or CD110 CAF 38												
Ran 8 5/8 csg. broke circulation with rig. Mixed and pumped 275sx 65/35 3%cc 2% gel 1/4 C.F. tail cement 150sx Common 3%cc 2% gel. released plug displaced with 37.5 bbls 1 1/2 cement didn't circulated to surface. Had Lost circulation.							Sand												
							Handling									556			
							Mileage									90			
							<b>FLOAT EQUIPMENT</b>												
							Guide Shoe									Didn't Charge mileage			
							Centralizer									for second trip to			
							Baskets									Ashland.			
							AFU Inserts												
							Float Shoe												
							Latch Down									8 5/8 Wooden Plug.			
							LMV									90			
							Service supervisor												
							Pumptrk Charge									Surface			
							Mileage									180			
											Tax								
											Discount								
											Total Charge								
X Signature	Kemat M. Hue.																		

TTMH: 44



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 15267 A

10-32-23

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>9/18/2017</u> DISTRICT <u>Pratt, KS</u>		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 <u>Mull Drilling Compny Inc</u>		LEASE <u>Bouziden</u> WELL NO. <u>1-10</u>								
ADDRESS		COUNTY <u>Clerk</u> STATE <u>KS</u>								
CITY STATE		SERVICE CREW <u>Darin, Eddy, M. Clymer</u>								
AUTHORIZED BY		JOB TYPE: <u>242/5 1/2 Longstring</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>19843</u>	<u>1/4</u>						<u>9/17</u>			<u>1:30</u>
<u>19918</u>	<u>1/2</u>						<u>9/17</u>			<u>8:30</u>
							<u>9/18</u>			<u>4:00</u>
							<u>9/18</u>			<u>5:15</u>
							<u>9/18</u>			<u>6:00</u>
						MILES FROM STATION TO WELL	<u>88</u>			

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: Jim Hoss  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP104	50/50 P02	SK	235		2,585 00	
CP104	50/50 P02	SK	50		550 00	
CC105	C-41 P	Lb	48		192 00	
CC111	S91+	Lb	158'		790 50	
CC112	Cement Friction Reducer	Lb	72		432 00	
CC113	Gypsum	Lb	1,200		900 00	
CC129	FLb-322	Lb	120		900 00	
CC201	Gilsonite	Lb	1425		954 75	
CF607	Latch Down Plug & Baffle, 5/8" (Blue)	E9	1		400 00	
CF1251	Auto Fill Floater shoe 5/8" (Blue)	E9	1		360 00	
CF1651	Turbolizer, 5/8" (Blue)	E9	12		1,320 00	
C704	Claymer KCL Substitute	Gal	5		175 00	
CC151	Mud Flush	Gal	500		750 00	
E100	unit Mileage Charge - pickups, small users & ccs	m.	90		405 00	
E101	Heavy Equipment - Mileage	m.	180		1,350 00	
E113	Proppant and Bulk Delivery Charge, per ton mile	Ton/m	1080		2,700 00	
CE206	Depth Charge; 5,000' - 6,000'	4hrs	1		2,880 00	
CE240	Blending & Mixing Service Charge	SK	285		399 00	
CE504	Plug container Utilization Charge	Job	1		250 00	
S003	Service Supervisor, Cost & hrs on loc.	E9	1		175 00	
					SUB-TOTAL	18,468 25

CHEMICAL / ACID DATA:


SERVICE & EQUIPMENT %TAX ON \$  
MATERIALS %TAX ON \$

Discount TOTAL 10,157 54

SERVICE REPRESENTATIVE <u>Darin Eddy</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Jim Hoss</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO.



Customer Mull Drilling Company Inc.	Lease No.	Date 9/18/2017
Lease Bouziden	Well # 1-10	
Field Order # 15267	Station Prst+105	Casing 5 1/2
		Depth 5383
Type Job 242/5 1/2 Longstrings	Formation 3417	County Clerk
		State KS
		Legal Description 10-32-23

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2				Pre Pad	Max		5 Min.	
Depth 5383	Depth	From	To	Pad	Min		10 Min.	
Volume 128	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush KCL Water	Gas Volume		Total Load	
Plug Depth 3336	Packer Depth	From	To					

Customer Representative Tim Hoss	Station Manager Justin Westerman	Treater Darin Franklin
-------------------------------------	-------------------------------------	---------------------------

Service Units	92911	84981	19843	33208	19918				
Driver Names	Darin	Ed	Ed	Clymer	Clymer				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9/17 8:30pm					On Location / Safety meeting
					5 1/2" 15.5H casing - 5383'
					T-1,3,5,7,9,11,13,15,17,19,21,23
					235sk 50/50 P02 + 2% Defosmer, 10% S91 +, 3% FR, 5% CSI set, 5% Fluid Loss, 3A Gilsonite, 2% Col
					13.8 ppg, 1.52 v.o.l., 6.64 water
9/18 4:00am	100		5	5	Pump 5 bbls water
	100		12	5	Pump 12 bbls mud flush
	100		5	5	Pump 5 bbls water
	100		7	3	mix 30SK R9 + hole
	100		5	3	mix 20SK mouse hole
	100		64	5	mix 235SK 50/50 P02
					Shut down
					Wash pump & lines & Release Plug
	100		0	3 1/2	Start displacement
	700		95	5 1/2	Lift Pressure
	900		117	3	Slow Rate
5:15am	1500		125	3	Bump Plug
					Flow - Held
					Job Complete / Darin & crew



Company: Mull Drilling Company, Inc
Lease: Bouziden Unit #1-10

SEC: 10 TWN: 32S RNG: 23W
County: CLARK
State: Kansas
Drilling Contractor: Duke Drilling Company, Inc - Rig 7
Elevation: 2214 GL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 59

DATE
September
12
2017

DST #1 Formation: Lans "A&B" Test Interval: 4532 - 4590' Total Depth: 4590'
Time On: 23:40 09/12 Time Off: 09:28 09/13
Time On Bottom: 02:15 09/13 Time Off Bottom: 04:50 09/13

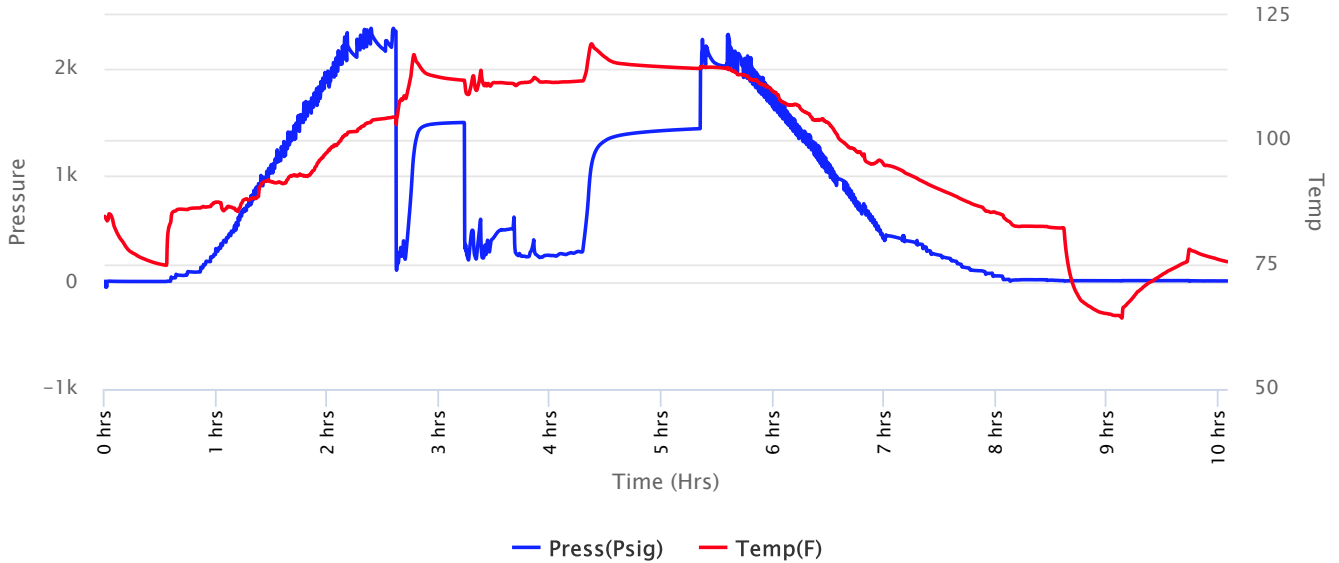
Electronic Volume Estimate: N/A

1st Open Minutes: 5 127" at 5 min

1st Close Minutes: 30 NO BB" at 30 min

2nd Open Minutes: 60 Gauging gas" at 60 min

2nd Close Minutes: 60 BB at 4.3" at 60 min





**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

**DATE**  
September  
**12**  
2017

**DST #1**      **Formation: Lans "A&B"**      **Test Interval: 4532 - 4590'**      **Total Depth: 4590'**  
Time On: 23:40 09/12      Time Off: 09:28 09/13  
Time On Bottom: 02:15 09/13      Time Off Bottom: 04:50 09/13

Recovered

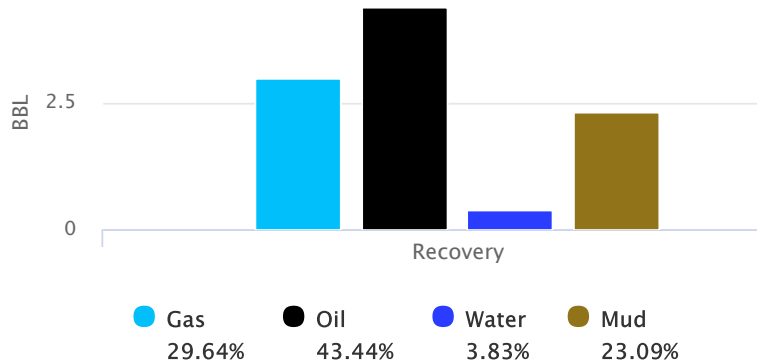
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
250	3.5575	SLMCGCO	25	65	0	10
380	5.4074	SLWCMCHO CG	37	30	5	28
235	1.18413	SLWCSLGCHMCO	10	40	10	40

Total Recovered: 865 ft  
Total Barrels Recovered: 10.14903

Reversed Out  
NO

Initial Hydrostatic Pressure	2183	PSI
Initial Flow	116 to 218	PSI
<b>Initial Closed in Pressure</b>	<b>1503</b>	<b>PSI</b>
Final Flow Pressure	212 to 297	PSI
<b>Final Closed in Pressure</b>	<b>1445</b>	<b>PSI</b>
Final Hydrostatic Pressure	2177	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	3.9	%

**Recovery at a glance**





**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

<b>DATE</b> September <b>12</b> 2017
---

<b>DST #1</b>	<b>Formation: Lans "A&amp;B"</b>	<b>Test Interval: 4532 - 4590'</b>	<b>Total Depth: 4590'</b>
	Time On: 23:40 09/12	Time Off: 09:28 09/13	
	Time On Bottom: 02:15 09/13	Time Off Bottom: 04:50 09/13	

**REMARKS:**

5 min Initial Flow: BOB in 1 min. 50 secs.  
30 min Initial Shut-in: No blow back.  
60 min Final Flow: BOB in 10 secs. GTS in 13 mins.  
60 min Final Shut-in: BB at 4.3 ins.

Ph: 7.0

RW: .24 @ 68 degrees F

Chlorides: 28,500 ppm



**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

**DATE**  
September  
**12**  
2017

**DST #1**          **Formation: Lans "A&B"**          **Test Interval: 4532 - 4590'**          **Total Depth: 4590'**

Time On: 23:40 09/12          Time Off: 09:28 09/13  
Time On Bottom: 02:15 09/13    Time Off Bottom: 04:50 09/13

**Down Hole Makeup**

<b>Heads Up:</b>	14.24 FT	<b>Packer 1:</b>	4526.5 FT
<b>Drill Pipe:</b>	4286 FT	<b>Packer 2:</b>	4532 FT
<i>ID-3 1/2</i>		<b>Top Recorder:</b>	4515.92 FT
<b>Weight Pipe:</b>	FT	<b>Bottom Recorder:</b>	4536 FT
<i>ID-2 7/8</i>		<b>Well Bore Size:</b>	7 7/8
<b>Collars:</b>	232 FT	<b>Surface Choke:</b>	1"
<i>ID-2 1/4</i>		<b>Bottom Choke:</b>	5/8"
<b>Test Tool:</b>	29.24 FT		
<i>ID-3 1/2-FH</i>			
<i>Safety Joint</i>			
<b>Total Anchor:</b>	58		
	<u><b>Anchor Makeup</b></u>		
<b>Packer Sub:</b>	1 FT		
<b>Perforations: (top):</b>	2 FT		
<i>4 1/2-FH</i>			
<b>Change Over:</b>	FT		
<b>Drill Pipe: (in anchor):</b>	32 FT		
<i>ID-3 1/2</i>			
<b>Change Over:</b>	FT		
<b>Perforations: (below):</b>	23 FT		
<i>4 1/2-FH</i>			



**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

<p><b>DATE</b> September <b>12</b> 2017</p>
---

<b>DST #1</b>	<b>Formation: Lans "A&amp;B"</b>	<b>Test Interval: 4532 - 4590'</b>	<b>Total Depth: 4590'</b>
	Time On: 23:40 09/12	Time Off: 09:28 09/13	
	Time On Bottom: 02:15 09/13	Time Off Bottom: 04:50 09/13	

**Mud Properties**

**Mud Type:** Chemical    **Weight:** 8.9    **Viscosity:** 52    **Filtrate:** 11.6    **Chlorides:** 9,000 ppm



**Company: Mull Drilling  
Company, Inc**  
**Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

<b>DATE</b> September <b>12</b> 2017
---

**DST #1**      **Formation: Lans "A&B"**      **Test Interval: 4532 - 4590'**      **Total Depth: 4590'**

Time On: 23:40 09/12      Time Off: 09:28 09/13  
Time On Bottom: 02:15 09/13      Time Off Bottom: 04:50 09/13

**Gas Volume Report**

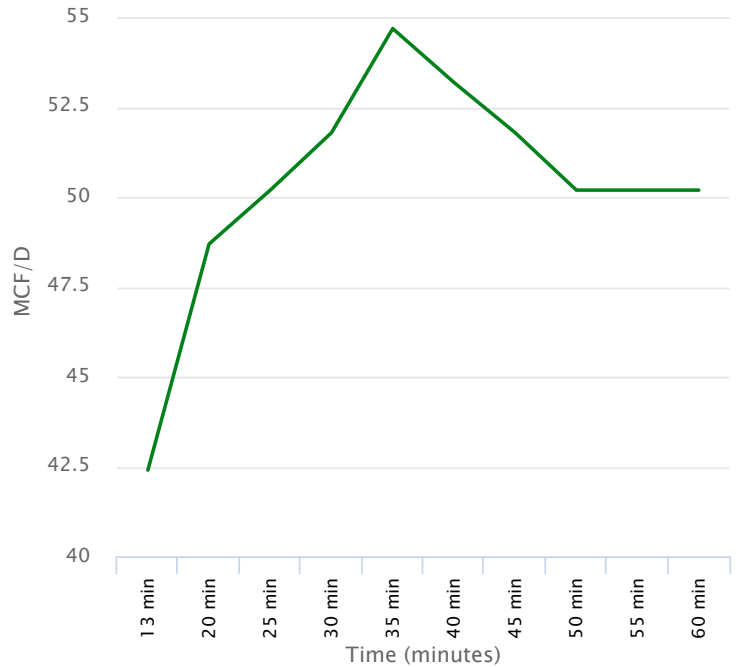
Remarks: GTS 13 mins. into 2nd flow period.

1st Open

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

2nd Open

Time	Orifice	PSI	MCF/D
13	0.25	17	42.4
20	0.25	21	48.7
25	0.25	22	50.2
30	0.25	23	51.8
35	0.25	25	54.7
40	0.25	24	53.2
45	0.25	23	51.8
50	0.25	22	50.2
55	0.25	22	50.2
60	0.25	22	50.2





**Company: Mull Drilling Company, Inc**  
**Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
 County: CLARK  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 7  
 Elevation: 2214 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 59

<p><b>DATE</b>          September  <b>14</b>          2017</p>
--

<b>DST #2</b>	<b>Formation: Lansing C</b>	<b>Test Interval: 4611 - 4630'</b>	<b>Total Depth: 4630'</b>
	Time On: 18:17 09/13	Time Off: 03:27 09/14	
	Time On Bottom: 00:00 01/01	Time Off Bottom: 00:00 09/14	

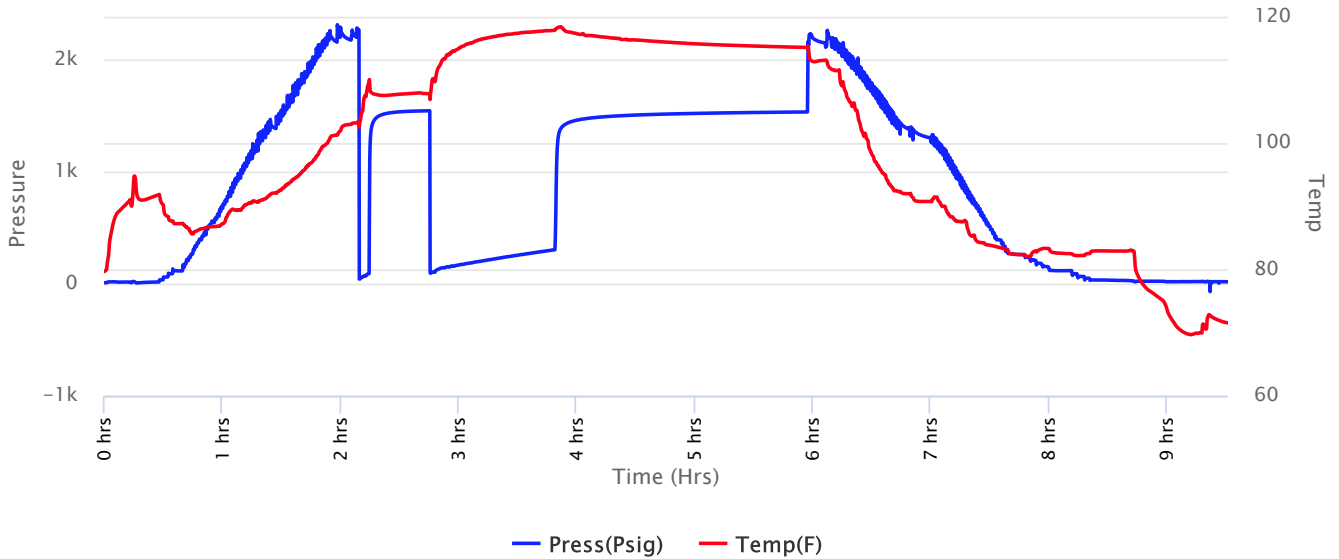
Electronic Volume Estimate:  
641'

1st Open  
Minutes: 5  
4.8" at 5 min

1st Close  
Minutes: 30  
No BB" at 30 min

2nd Open  
Minutes: 60  
36.8" at 60 min

2nd Close  
Minutes: 120  
No BB" at 120 min







**Company: Mull Drilling Company, Inc**  
**Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
 County: CLARK  
 State: Kansas  
 Drilling Contractor: Duke Drilling Company, Inc - Rig 7  
 Elevation: 2214 GL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 59

**DATE**  
 September  
**14**  
 2017

**DST #2**      **Formation: Lansing C**      **Test Interval: 4611 - 4630'**      **Total Depth: 4630'**

Time On: 18:17 09/13      Time Off: 03:27 09/14  
 Time On Bottom: 00:00 01/01      Time Off Bottom: 00:00 09/14

Recovered

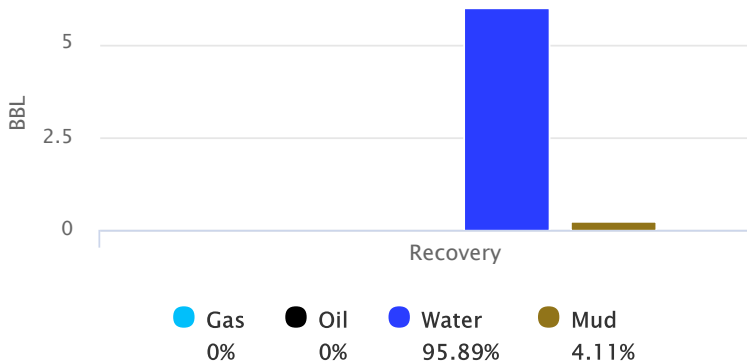
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
45	0.64035	HMCW	0	0	60	40
545	5.59543	W	0	0	100	0

Total Recovered: 590 ft  
 Total Barrels Recovered: 6.23578

Reversed Out  
 NO

Initial Hydrostatic Pressure	2203	PSI
Initial Flow	42 to 91	PSI
<b>Initial Closed in Pressure</b>	<b>1547</b>	<b>PSI</b>
Final Flow Pressure	98 to 305	PSI
<b>Final Closed in Pressure</b>	<b>1536</b>	<b>PSI</b>
Final Hydrostatic Pressure	2201	PSI
Temperature	119	°F
 Pressure Change Initial Close / Final Close	 0.7	 %

**Recovery at a glance**





**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

<p><b>DATE</b> September <b>14</b> 2017</p>
---

<b>DST #2</b>	<b>Formation: Lansing C</b>	<b>Test Interval: 4611 - 4630'</b>	<b>Total Depth: 4630'</b>
	Time On: 18:17 09/13	Time Off: 03:27 09/14	
	Time On Bottom: 00:00 01/01	Time Off Bottom: 00:00 09/14	

**REMARKS:**

5 min IF: Blow increased to 5".

30 min ISI: No blowback.

60 min FF: Blow increased to BOB in 16 minutes.

120 min FSI; No blowback.

Ph: 7.0

RW: .08 @ 73 degrees F

Chlorides: 95000 ppm



**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

<b>DATE</b> September <b>14</b> 2017
---

<b>DST #2</b>	<b>Formation: Lansing C</b>	<b>Test Interval: 4611 - 4630'</b>	<b>Total Depth: 4630'</b>
	Time On: 18:17 09/13	Time Off: 03:27 09/14	
	Time On Bottom: 00:00 01/01	Time Off Bottom: 00:00 09/14	

**Down Hole Makeup**

<b>Heads Up:</b> 28.74 FT	<b>Packer 1:</b> 4606 FT
<b>Drill Pipe:</b> 4380 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 4611 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4595.42 FT
<b>Collars:</b> 232 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4613 FT
<b>Test Tool:</b> 28.74 FT <i>ID-3 1/2-FH Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 19	<b>Surface Choke:</b> 1"
	<b>Bottom Choke:</b> 5/8"
<b><u>Anchor Makeup</u></b>	
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 18 FT <i>4 1/2-FH</i>	







**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

**DATE**  
September  
**15**  
2017

**DST #3 Formation: Lansing F Test Interval: 4769 - 4800' Total Depth: 4800'**  
Time On: 19:06 09/14 Time Off: 03:11 09/15  
Time On Bottom: 21:20 09/14 Time Off Bottom: 23:25 09/14

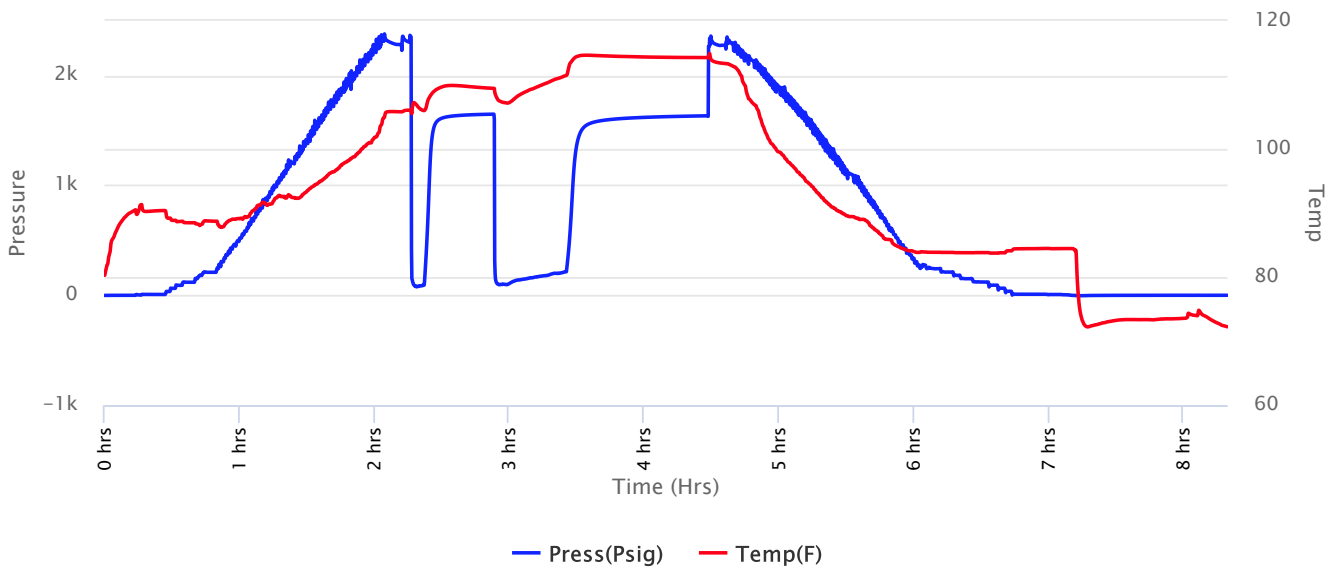
Electronic Volume Estimate:  
N/A

1st Open  
Minutes: 5  
308" at 5 min

1st Close  
Minutes: 30  
1" at 30 min

2nd Open  
Minutes: 9  
415" at 9 min

2nd Close  
Minutes: 60  
strong blowback" at 60 min





**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

**DATE**  
September  
**15**  
2017

**DST #3      Formation: Lansing      Test Interval: 4769 -      Total Depth: 4800'**  
**F**  
Time On: 19:06 09/14      Time Off: 03:11 09/15  
Time On Bottom: 21:20 09/14      Time Off Bottom: 23:25 09/14

Recovered

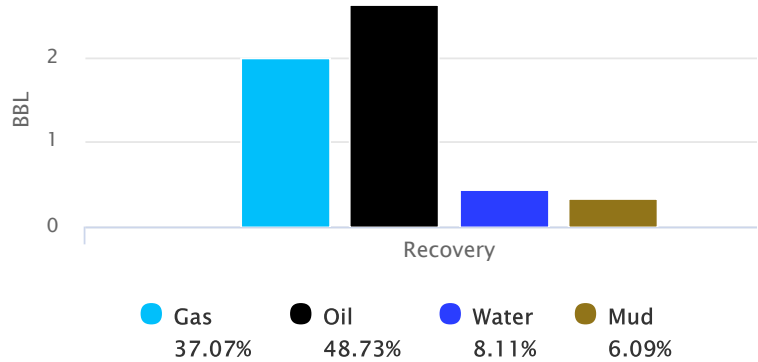
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
90	1.2807	SLWCMCOG	50	25	5	20
120	1.7076	GCO	25	75	0	0
260	2.09848	SLMCSLWCHGCO	40	48	10	2
60	0.2952	SLOCSLMCHGCW	30	5	55	10

Total Recovered: 530 ft  
Total Barrels Recovered: 5.38198

Reversed Out  
NO

Initial Hydrostatic Pressure	2280	PSI
Initial Flow	77 to 93	PSI
<b>Initial Closed in Pressure</b>	<b>1647</b>	<b>PSI</b>
Final Flow Pressure	97 to 213	PSI
<b>Final Closed in Pressure</b>	<b>1632</b>	<b>PSI</b>
Final Hydrostatic Pressure	2274	PSI
Temperature	115	°F
Pressure Change Initial Close / Final Close	0.9	%

**Recovery at a glance**





**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

<b>DATE</b> September <b>15</b> 2017
---

<b>DST #3</b>	<b>Formation: Lansing F</b>	<b>Test Interval: 4769 - 4800'</b>	<b>Total Depth: 4800'</b>
	Time On: 19:06 09/14	Time Off: 03:11 09/15	
	Time On Bottom: 21:20 09/14	Time Off Bottom: 23:25 09/14	

**REMARKS:**

5 min IF: BOB 20 seconds

30 min ISI: Blowback at 1"

30 min FF: BOB 5 seconds. Gas to surface in 10 minutes.

60 min FSI: Blowback at BOB.

Gravity: 38.4 @ 60 degrees F

Ph: 7

RW: .09 @ 75 degrees F

Chlorides: 82000 ppm









**Company: Mull Drilling  
Company, Inc  
Lease: Bouziden Unit #1-10**

SEC: 10 TWN: 32S RNG: 23W  
County: CLARK  
State: Kansas  
Drilling Contractor: Duke Drilling  
Company, Inc - Rig 7  
Elevation: 2214 GL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 59

**DATE**  
September  
**15**  
2017

**DST #3      Formation: Lansing      Test Interval: 4769 -      Total Depth: 4800'**  
**F**  
Time On: 19:06 09/14      Time Off: 03:11 09/15  
Time On Bottom: 21:20 09/14      Time Off Bottom: 23:25 09/14

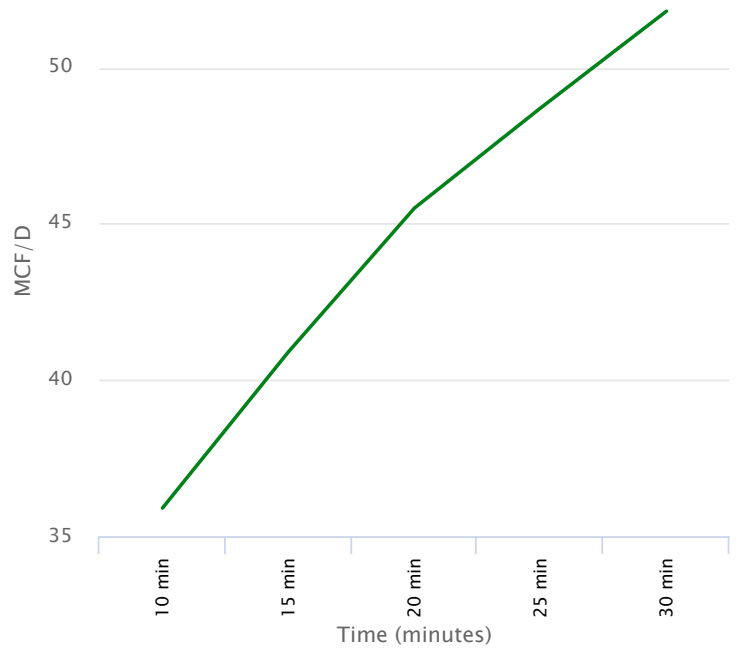
**Gas Volume Report**

1st Open

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

2nd Open

Time	Orifice	PSI	MCF/D
10	0.25	13	35.9
15	0.25	16	40.9
20	0.25	19	45.5
25	0.25	21	48.7
30	0.25	23	51.8



# LITHOLOGY STRIP LOG

**WellSight Systems**  
Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Bouziden 1-10 API: 15025215960000 Location: License Number: Spud Date: 9/7/2017 Surface Coordinates: 37.278063405 -99.805935283 Bottom Hole Coordinates: Ground Elevation (ft): 2214 Logged Interval (ft): Formation: Type of Drilling Fluid:	Region: Drilling Completed: 9/17/2017 K.B. Elevation (ft): 2227 Total Depth (ft): 5414 To:
---	--

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

## OPERATOR

Company: Mull Drilling Co., Inc.  
Address:

## GEOLOGIST

Name: Rusty C Mourning  
Company:  
Address:

## Cores

## DSTs

## Comments

Contractor: Duke Drilling Rig #5

## ROCK TYPES

Anhy Bent Brec Cht	Cyst Coal Congl Dol	Gyp Igne Lmst Meta	Mrlst Salt Shale Shcol	Shgy Slst Ss Till
-----------------------------	------------------------------	-----------------------------	---------------------------------	----------------------------

## ACCESSORIES

MINERAL Anhy Arggrn Arg Bent Bit Brecfrag Calc Carb Chtdk Dol Feldspar Ferr Glau	Gyp Hvymin Kaol Marl Minxl Nodule Phos Pyr Salt Sandy Silt Sill Sulphur Tuff	FOSSIL Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Crin Echin Fish Foram Fossil Gastro Oolite	Ostra Pellet Pisolite Plant Strom  STRINGER Anhy Arg Bent Coal Dol Gyp Ls Mrst	Slststrg Ssstrg  TEXTURE Boundst Chalky Cryxln Earthy Finexln Grainst Lithogr Microxln Mudst Packst Wackest
---	---	---	--	---

POROSITY Earthy Fenest Fracture Inter Moldic Organic Pinpoint	Vuggy SORTING Well Moderate Poor	OTHER SYMBOLS ROUNDED Subrnd Subang Angular  OIL SHOW Even	Spotted Ques Dead  INTERVAL Core Dst	EVENT Rft Sidewall
--	--	---	--	--------------------------

