

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date _____

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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 A 4-10
Doc ID	1518414

All Electric Logs Run

MEL
DIL
CDL/CNL/PE
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN A 4-10
Doc ID	1518414

Tops

Name	Top	Datum
Anhydrite	1128	+ 1006
Heebner	4273	- 2139
Lansing	4461	- 2327
Lansing F	4709	- 2575
Stark	4879	- 2745
Cherokee	5126	- 2992
Morrow	5253	- 3119
Mississippian	5281	- 3147
STGV	5349	- 3218

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BOUZIDEN A 4-10
Doc ID	1518414

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	54	99	Common	150	3% cc, 2% gel
Surface	12.250	8.625	23	609	MDC	125	3% cc
Surface	12.250	8.625	23	609	Common	250	3% cc, 2% gel
Production	7.875	5.5	15.5	5533	50/50 Poz	250	

QUALITY WELL SERVICE, INC.

7365

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	2.19.20	Sec.	10	Twp.	32S	Range	23W	County	Clark	State	Ks	On Location		Finish		
Lease	BOUZINEN			Well No.	A 4-10		Location Ahtland, Ks 1 W S.2 N 1/8 NE 1/4									
Contractor	DUKE DUG E. #1							Owner								
Type Job	Cond.							To Quality Well Service, Inc.								
Hole Size	17 1/2			T.D.	99'		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.									
Csg.	13 3/8 54.50"			Depth	99'		Charge To MULL DOLLING CO. INC.									
Tbg. Size								Street								
Tool								City 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 12.9 Bbls								
EQUIPMENT							2 1/2 GEL 3 1/2 CC 1 1/2" PS									
Pumptrk	3	No.				Common 150 x										
Bulktrk	10	No.				Poz. Mix										
Bulktrk		No.				Gel. 232"										
Pickup		No.				Calcium 423"										
JOB SERVICES & REMARKS							Hulls									
Rat Hole								Salt								
Mouse Hole								Flowseal 75"								
Centralizers								Kol-Seal								
Baskets								Mud CLR 48								
D/V or Port Collar								CFL-117 or CD110 CAF 38								
Ran 2 #1's 13 3/8 54.50" Csg set @ 99'							Sand									
Csg on Bottom & Hook up to csg							Handling 162									
Break circ w/ rig							Mileage 65/10530									
START Pumping 10 Bbls H ₂ O							FLOAT EQUIPMENT									
START Mix & Pump 150 x 2 1/4" / gal							Guide Shoe									
START Disp							Centralizer									
12.9 Bbls							Baskets									
Close Valve on Csg							AFU Inserts									
Good circ thru JOC							Float Shoe									
Circ out to pit							Latch Down									
							SERVICE Smt 1 EA									
							LAW 65									
THANK YOU							Pumptrk Charge Cond.									
PLEASE CALL AGAIN							Mileage 130									
TODD TS JAVC																
Signature Mike [Signature]							Tax									
							Discount									
							Total Charge									

QUALITY WELL SERVICE, INC.

7366

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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	2-20-20	Sec.	10	Twp.	32S	Range	23W	County	CLARK	State	KS	On Location		Finish	
Lease	BOUZIDEN		Well No.		A 4-10		Location Ashland, Kc 8 W 5.2 N 1/8 NE 1/4								
Contractor	DOKE DRUG RIG #1							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.		610		Charge To MULL DRUG CO. INC.								
Csg.	8 5/8 23 #		Depth		609		Street								
Tbg. Size			Depth				City								
Tool			Depth				State								
Cement Left in Csg.			Shoe Joint		42		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		36.31		Cement Amount Ordered 125x MOC 3% CC 1/2" PS								
EQUIPMENT							150x Common 2% Gel 3% CC 1/2" PS 100x 1"								
Pumptrk	8	No.					Common 150 x + 100 = 250 x.								
Bulktrk	10	No.					MOC Poz-Mix 125 x.								
Bulktrk	11	No.					Gel. 470 #.								
Pickup		No.					Calcium 705 #.								
JOB SERVICES & REMARKS							Hulls								
Rat Hole							Salt								
Mouse Hole							Flowseal 125 #.								
Centralizers							Kol-Seal								
Baskets	3 # = 126' = 483 #						Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
ROW 14 #1'S 8 5/8 23 # CSG SET 609							Sand								
START CSG CSG ON Bottom							Handling 394								
Hook up to CSG & Break circ w/ rig							Mileage 12,905/65								
START Pumping 10 bbls H ₂ O							3 5/8 FLOAT EQUIPMENT								
START MIX Pump 125 x MOC @ 12 1/4" G/L							Guide Shoe								
START MIX Pump 150 x Common @ 14.8 % G/L							Centralizer								
SHUT DOWN Release 8 5/8 Wooden Plug							Baskets 1 EA.								
START Disp							AFU Inserts 1 EA BAFFLE PLATE.								
PLUG DOWN 300 #							Float Shoe 1 EA WOODEN PLUG.								
Close Valve 36.31							Latch Down 1 EA H: M.								
Give rig thru JOB circ CNT TO BIT							SERVICE SPU 1 EA								
CNT FELL TAG @ 95'							LMV 65								
MIX Pump 50 x MOC							Pumptrk Charge SURFACE								
MIX Pump 50 x circ CNT TO BIT							Mileage 195								
THANK YOU							Tax								
Please call ahead today to take milk							Discount								
Signature [Signature]							Total Charge								



CEMENT TREATMENT REPORT

Customer:	mull drilling	Well:	BOUZIDEN "A" 4-10	Ticket:	ICT 3354
City, State:		County:	CLARK,KS	Date:	3/4/2020
Field Rep:	BILLY STUTZ	S-T-R:	10-32S-23W	Service:	5 1/2" LONGSTRING

Downhole Information	
Hole Size:	7 7/8 in
Hole Depth:	5570 ft
Casing Size:	5.5 in
Casing Depth:	5533 ft
Tubing / Liner:	in
Depth:	5496 ft
Tool / Packers:	
Depth:	ft
Displacement:	131.0 bbls

Calculated Slurry	
Weight:	13.8 # / sx
Water / Sx:	6.64 gal / sx
Yield:	1.52 ft ³ / sx
Bbls / Ft.:	
Depth:	5570 ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	68.0 bbls
Total Sacks:	300 sx

Product	% / #	#
Class A	50.00	
Poz	50.00	
Gel	2.00	0
CaCl		
Gypsum	5.00	0
Metso		
Kol Seal		
Flo Seal		
Salt (bww)	10.00	0
Total		-

TIME	RATE	PSI	BBLs	REMARKS
11:00pm				3-3-2020 ON LOCATION/ SPOT EQUIPMENT AND RIG UP
1:00AM				3-4-2020 RUN 141 JTS 5 1/2" X 15.5# CSG
				TURBOLIZERS- 3-6-9-12-15-18-21-24-27-30-33
3:45am				CSG. ON BOTTOM
4:00am				HOOK UP TO CSG. / BREAK CIRCULATION WITH RIG PUMP
5:50 AM				PLUG RATHOLE W/ 30SKS PLUG MOUSEHOLE W/ 20 SKS
6:20 AM	5.0	300.0	5.0	H2O AHEAD
6:21 AM	5.0	300.0	24.0	SUPERFLUSH II
6:26 AM	5.0	300.0	5.0	H2O SPACER
6:28 AM	5.0	250.0	68.0	MIX 250 SKS 50/50/2 POZMIX @13.8 PPG
6:55 AM				SHUT DOWN/ CLEAR PUMP AND LINES / DROP LATCHDOWN PLUG
7:06AM	6.0	-	-	START DISPLACEMENT WITH 2% KCL H2O
7:19AM	5.0	300.0	80.0	LIFT PRESSURE
7:27AM	4.0	600.0	120.0	SLOW RATE
7:30AM	3.0	1,500.0	131.0	PLUG DOWN AND HELD
				CIRCULATION THRU JOB
				WASH UP PUMP TRUCK
				JOB COMPLETE,
				THANKS!

CREW		UNIT	SUMMARY		
Cementer:	LESLEY	75	Average Rate	Average Pressure	Total Fluid
Pump Operator:	OSBOURNE	524-522	4.75 bpm	444 psi	433 bbls
Bulk #1:	MARTINEZ	176-260			
Bulk #2:					



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Bouziden A #4-10

10-32S-23W Clark,KS

Start Date: 2020.02.26 @ 16:25:00

End Date: 2020.02.27 @ 00:29:02

Job Ticket #: 65492 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.03.03 @ 10:18:31

Mull Drilling Co
10-32S-23W Clark,KS
Bouziden A #4-10
DST # 1
LKC "B"
2020.02.26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Co
1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

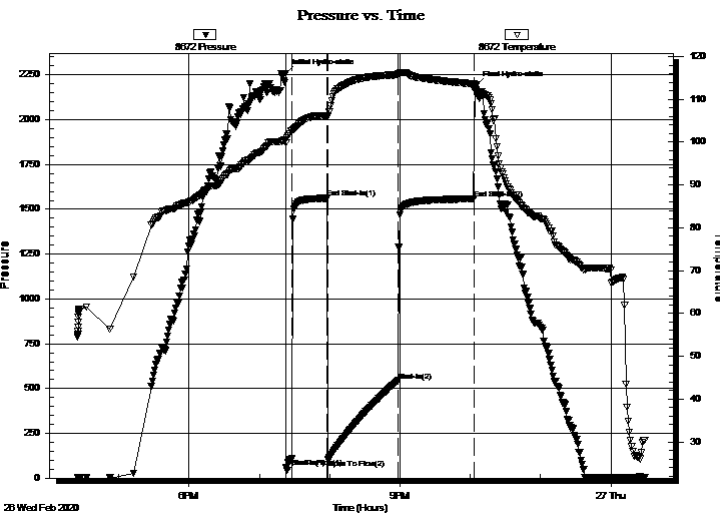
10-32S-23W Clark,KS
Bouziden A #4-10
Job Ticket: 65492 **DST#: 1**
Test Start: 2020.02.26 @ 16:25:00

GENERAL INFORMATION:

Formation: **LKC "B"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:23:02
Time Test Ended: 00:29:02
Interval: **4500.00 ft (KB) To 4530.00 ft (KB) (TVD)**
Total Depth: 4530.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 74
Reference Elevations: 2134.00 ft (KB)
2122.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8672 Inside
Press@RunDepth: 543.75 psig @ 4501.00 ft (KB) Capacity: psig
Start Date: 2020.02.26 End Date: 2020.02.27 Last Calib.: 2020.02.27
Start Time: 16:25:01 End Time: 00:29:02 Time On Btm: 2020.02.26 @ 19:22:47
Time Off Btm: 2020.02.26 @ 22:05:02

TEST COMMENT: IF: Strong Blow , Built to 11"
IS: No Blow Back
FF: Strong Blow , BOB in 7 minutes, Built to 85"
FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2258.74	100.49	Initial Hydro-static
1	62.01	99.88	Open To Flow (1)
5	108.29	102.66	Shut-In(1)
35	1562.00	106.20	End Shut-In(1)
36	103.72	105.91	Open To Flow (2)
96	543.75	115.77	Shut-In(2)
161	1558.60	113.60	End Shut-In(2)
163	2192.40	112.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	30 GIP	0.00
1164.00	Water	16.33
219.00	MCW 16%M 84%W	3.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65492

DST#: 1

Test Start: 2020.02.26 @ 16:25:00

Tool Information

Drill Pipe:	Length: 4503.00 ft	Diameter: 3.80 inches	Volume: 63.17 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 63.17 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4500.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	59.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4476.00	
Hydraulic tool	5.00			4481.00	
Jars	5.00			4486.00	
EM Tool	3.00			4489.00	
Safety Joint	2.00			4491.00	
Packer	5.00			4496.00	29.00 Bottom Of Top Packer
Packer	4.00			4500.00	
Stubb	1.00			4501.00	
Recorder	0.00	8672	Inside	4501.00	
Recorder	0.00	6751	Outside	4501.00	
Perforations	26.00			4527.00	
Bullnose	3.00			4530.00	30.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65492

DST#: 1

Test Start: 2020.02.26 @ 16:25:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 64.00 sec/qt
Water Loss: 8.36 in³
Resistivity: ohm.m
Salinity: 7600.00 ppm
Filter Cake: 0.02 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 75000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	30 GIP	0.000
1164.00	Water	16.328
219.00	MCW 16%M 84%W	3.072

Total Length: 1383.00 ft Total Volume: 19.400 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

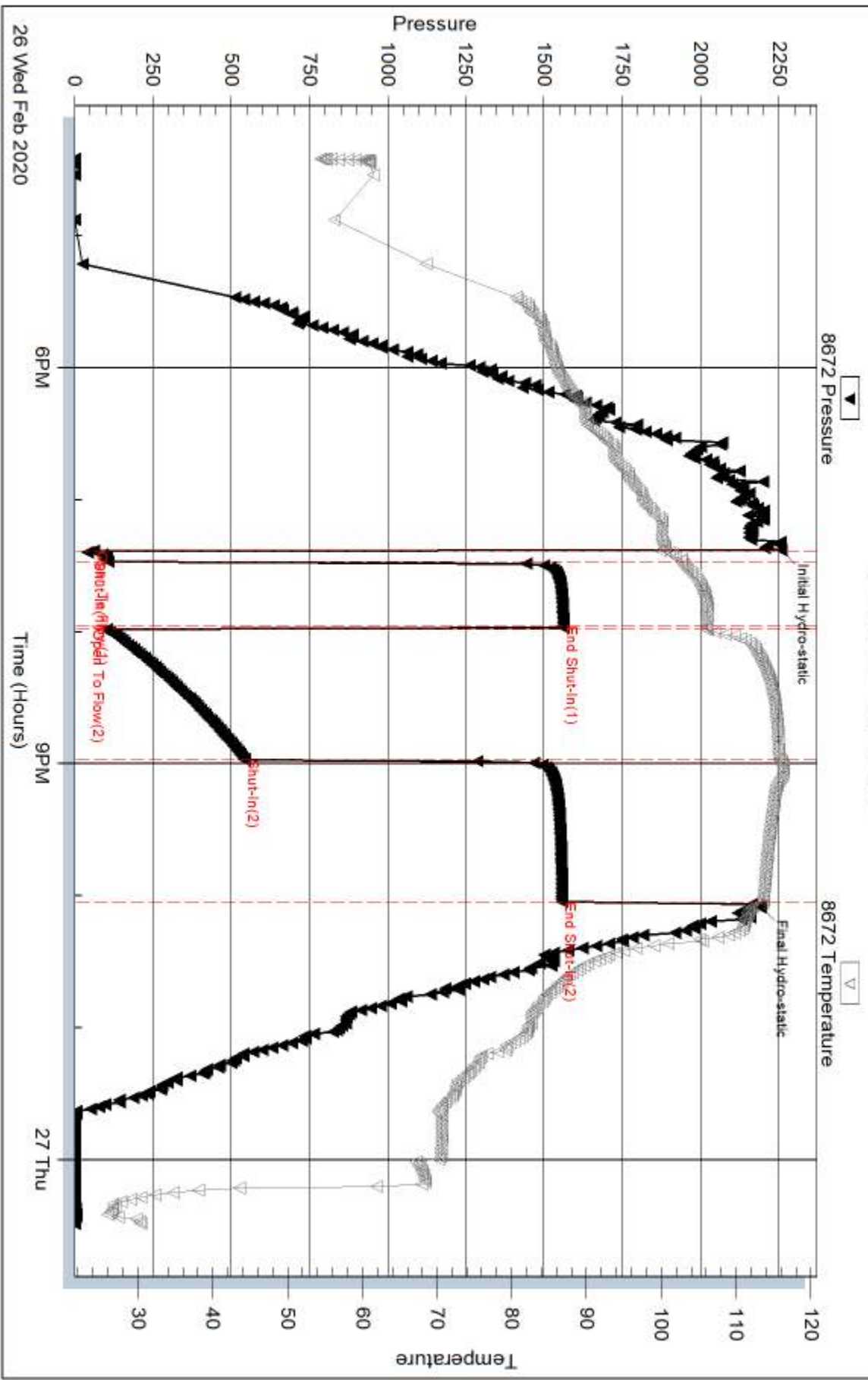
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .18 @ 40 degrees

Pressure vs. Time

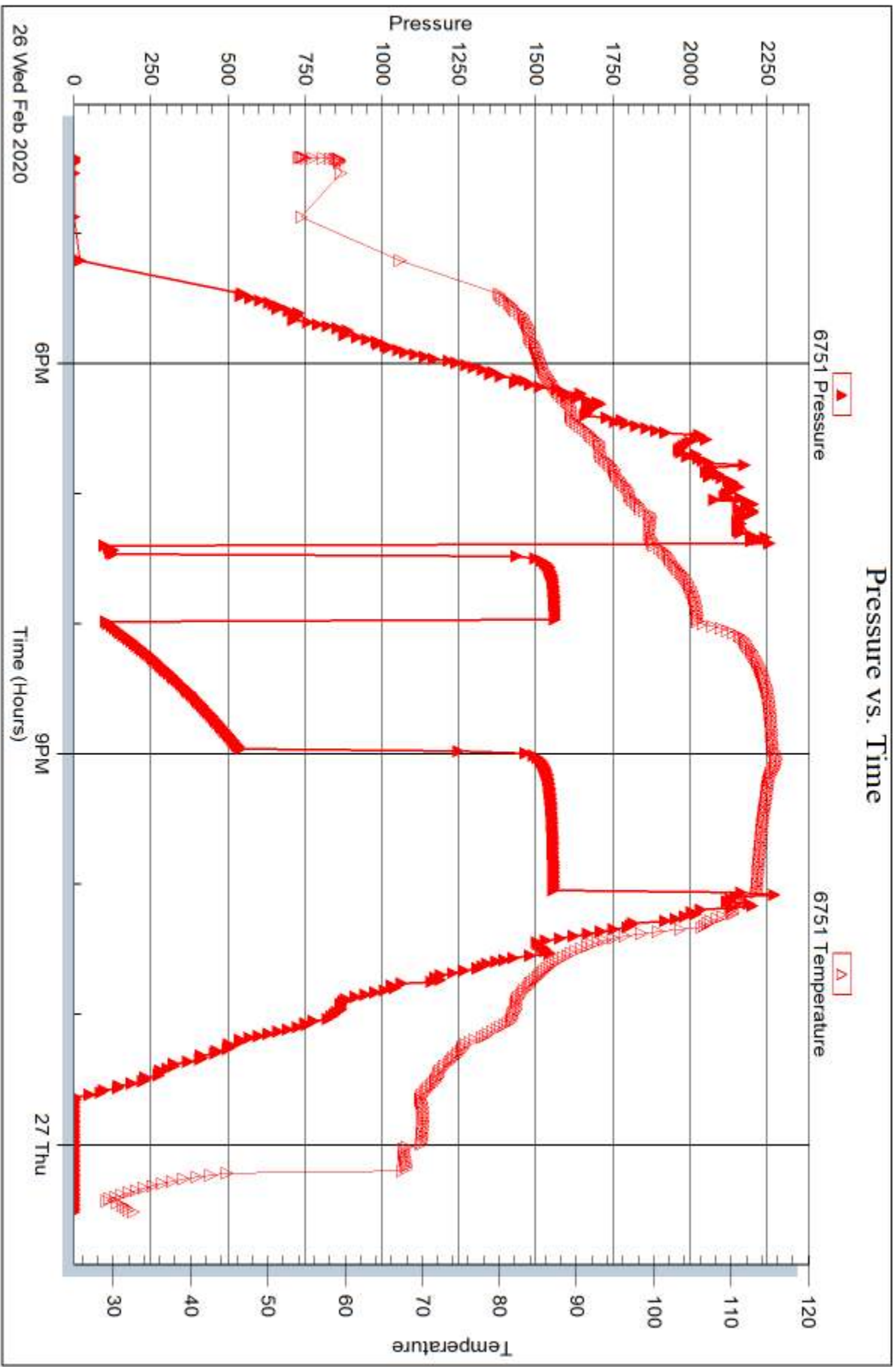


Serial #: 6751

Outside Mall Drilling Co

Bouziden A #4-10

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65492

Printed: 2020.03.03 @ 10:18:31



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Bouziden A #4-10

10-32S-23W Clark,KS

Start Date: 2020.02.27 @ 16:15:00

End Date: 2020.02.27 @ 23:15:02

Job Ticket #: 65493 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.03.03 @ 10:18:07

Mull Drilling Co
10-32S-23W Clark,KS
Bouziden A #4-10
DST # 2
LKC "F"
2020.02.27



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita, KS 67206
 ATTN: Kevin Kessler

10-32S-23W Clark,KS
Bouziden A #4-10
 Job Ticket: 65493 **DST#: 2**
 Test Start: 2020.02.27 @ 16:15:00

GENERAL INFORMATION:

Formation: **LKC "F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 18:36:47
 Time Test Ended: 23:15:02
 Interval: **4695.00 ft (KB) To 4730.00 ft (KB) (TVD)**
 Total Depth: 4730.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2134.00 ft (KB)
 2122.00 ft (CF)
 KB to GR/CF: 12.00 ft

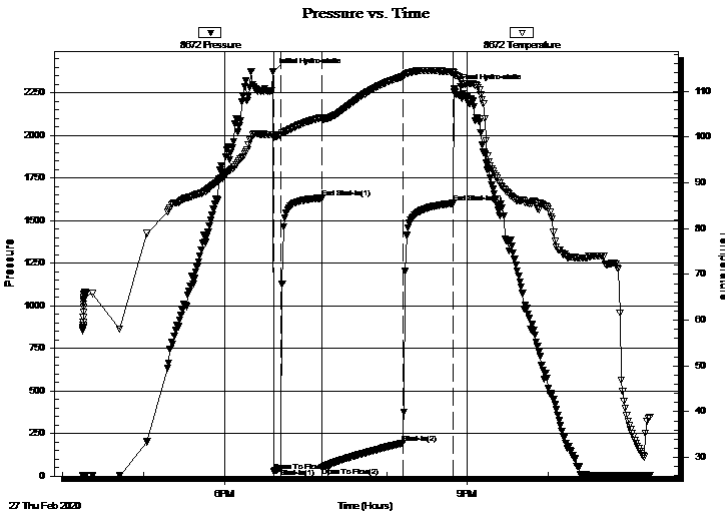
Serial #: 8672

Inside

Press@RunDepth: 195.12 psig @ 4696.00 ft (KB) Capacity: psig
 Start Date: 2020.02.27 End Date: 2020.02.27 Last Calib.: 2020.02.27
 Start Time: 16:15:01 End Time: 23:15:02 Time On Btm: 2020.02.27 @ 18:35:47
 Time Off Btm: 2020.02.27 @ 20:50:17

TEST COMMENT: IF: Weak Blow , Built to 4 1/2"
 IS: No Blow Back
 FF: Fair Blow , Built to 23 1/2"
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2371.11	100.58	Initial Hydro-static
1	29.62	99.97	Open To Flow (1)
7	47.80	100.53	Shut-In(1)
37	1631.45	104.20	End Shut-In(1)
37	51.65	103.89	Open To Flow (2)
97	195.12	113.27	Shut-In(2)
134	1601.74	114.18	End Shut-In(2)
135	2276.14	113.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MCW 12%M 88%W	4.42
40.00	Mud	0.56

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65493

DST#: 2

Test Start: 2020.02.27 @ 16:15:00

Tool Information

Drill Pipe:	Length: 4693.00 ft	Diameter: 3.80 inches	Volume: 65.83 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 65.83 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4695.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4671.00	
Hydraulic tool	5.00			4676.00	
Jars	5.00			4681.00	
EM Tool	3.00			4684.00	
Safety Joint	2.00			4686.00	
Packer	5.00			4691.00	29.00 Bottom Of Top Packer
Packer	4.00			4695.00	
Stubb	1.00			4696.00	
Recorder	0.00	8672	Inside	4696.00	
Recorder	0.00	6751	Outside	4696.00	
Perforations	31.00			4727.00	
Bullnose	3.00			4730.00	35.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65493

DST#: 2

Test Start: 2020.02.27 @ 16:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

68000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
315.00	MCW 12%M 88%W	4.419
40.00	Mud	0.561

Total Length: 355.00 ft Total Volume: 4.980 bbf

Num Fluid Samples: 0

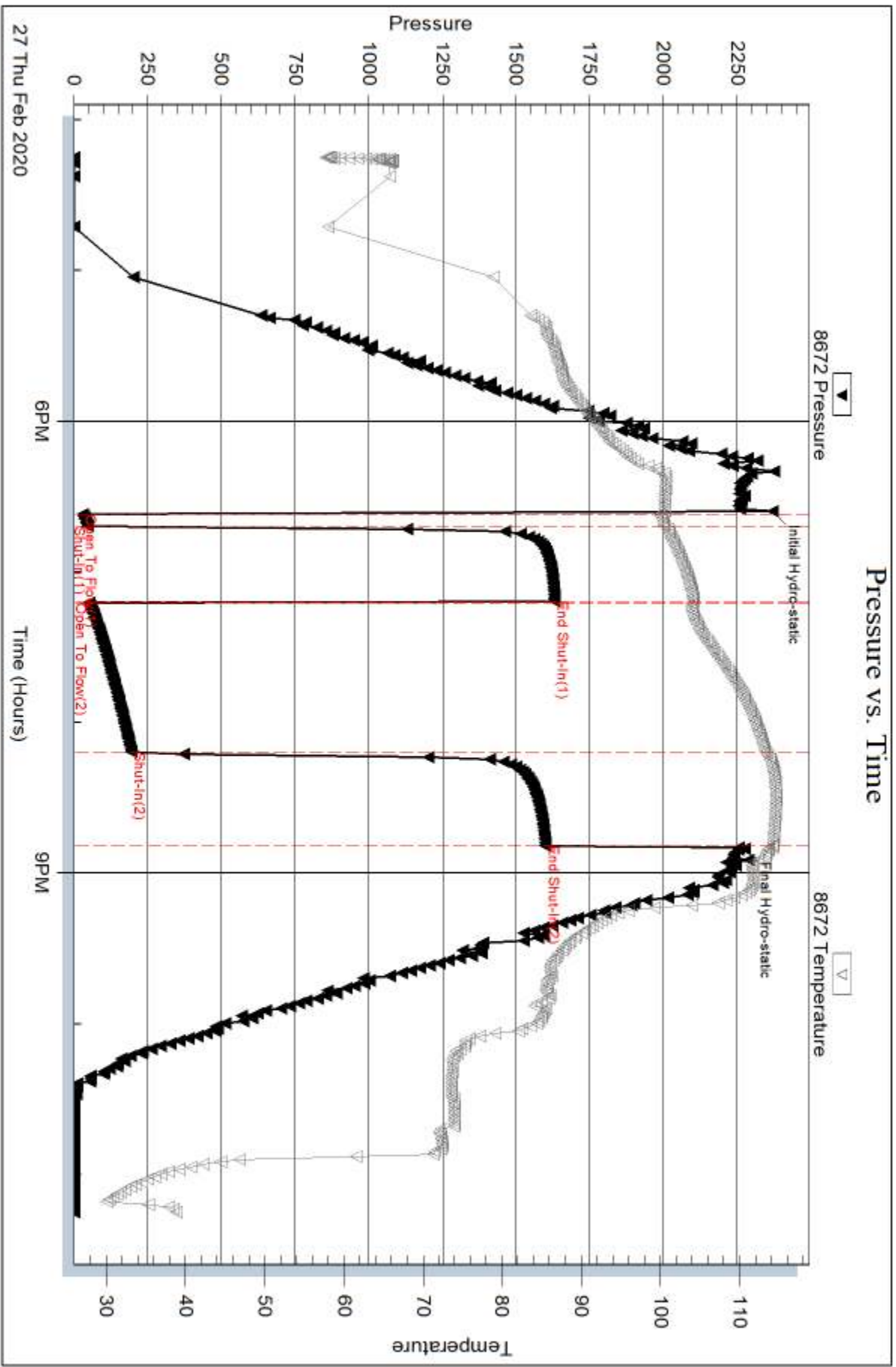
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .18 @ 42 degrees

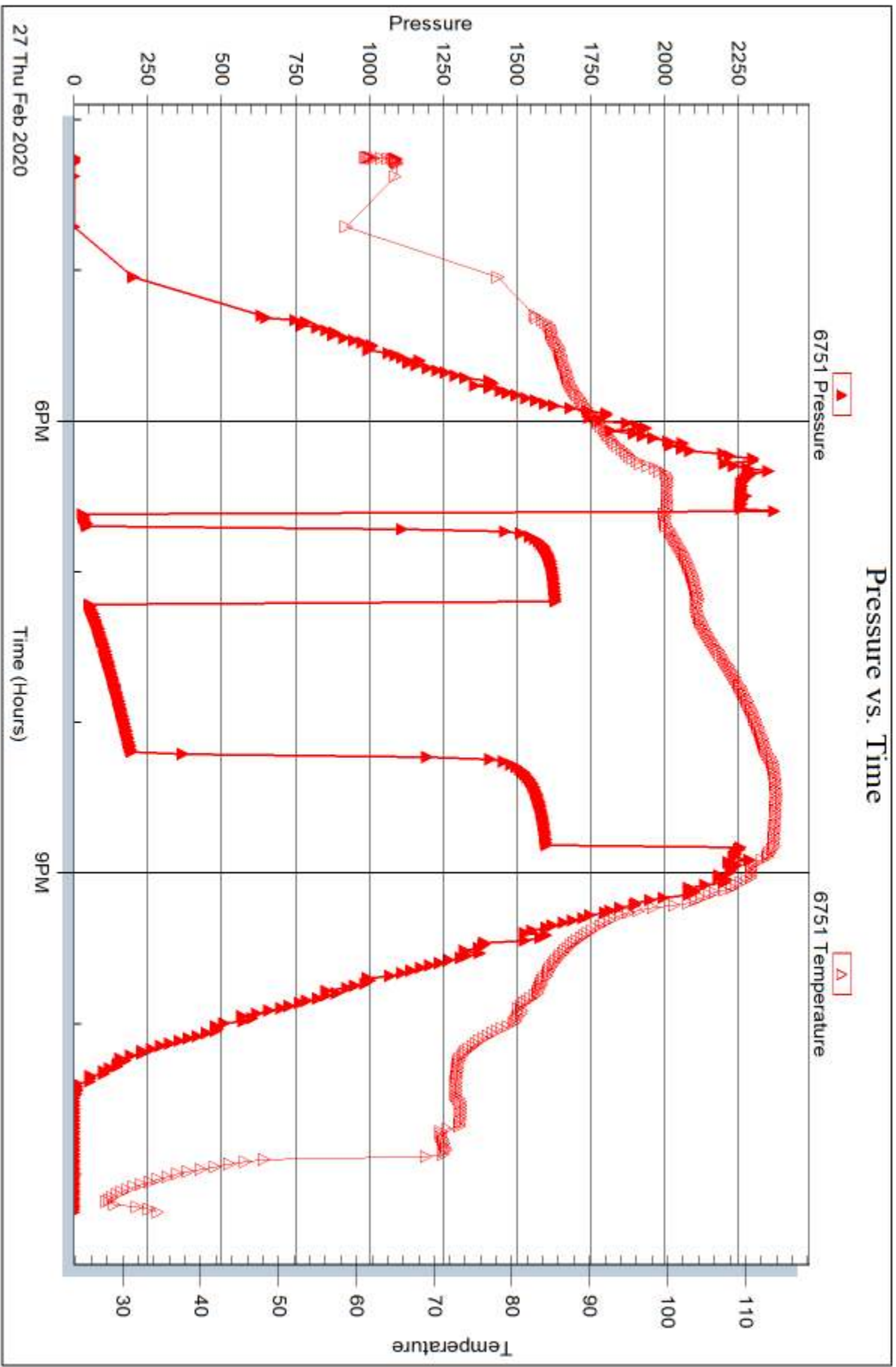


Serial #: 6751

Outside Mall Drilling Co

Bouziden A #4-10

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Bouziden A #4-10

10-32S-23W Clark,KS

Start Date: 2020.02.28 @ 14:58:00

End Date: 2020.02.28 @ 20:54:02

Job Ticket #: 65494 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.03.03 @ 10:17:38

Mull Drilling Co
10-32S-23W Clark,KS
Bouziden A #4-10
DST # 3
LKC "K"
2020.02.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65494

DST#: 3

Test Start: 2020.02.28 @ 14:58:00

Tool Information

Drill Pipe:	Length: 4852.00 ft	Diameter: 3.80 inches	Volume: 68.06 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 68.06 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4870.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.00 ft			
Tool Length:	75.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4846.00	
Hydraulic tool	5.00			4851.00	
Jars	5.00			4856.00	
EM Tool	3.00			4859.00	
Safety Joint	2.00			4861.00	
Packer	5.00			4866.00	29.00 Bottom Of Top Packer
Packer	4.00			4870.00	
Stubb	1.00			4871.00	
Recorder	0.00	8672	Inside	4871.00	
Recorder	0.00	6751	Outside	4871.00	
Perforations	3.00			4874.00	
Change Over Sub	1.00			4875.00	
Drill Pipe	31.00			4906.00	
Change Over Sub	2.00			4908.00	
Perforations	5.00			4913.00	
Bullnose	3.00			4916.00	46.00 Bottom Packers & Anchor
Total Tool Length:	75.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65494

DST#: 3

Test Start: 2020.02.28 @ 14:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	Mud	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

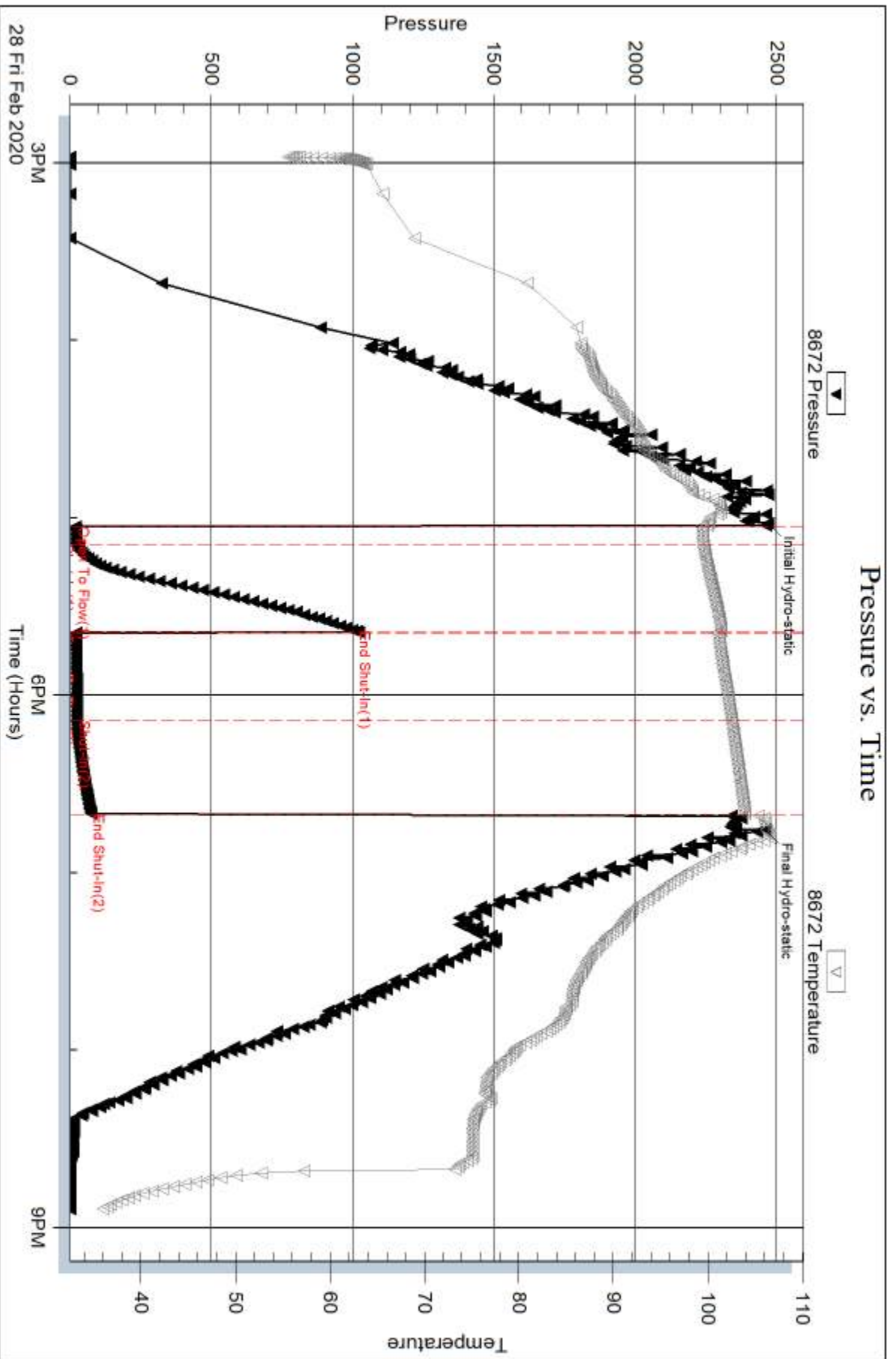
Serial #: 8672

Inside

Mull Drilling Co

Bouziden A #4-10

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65494

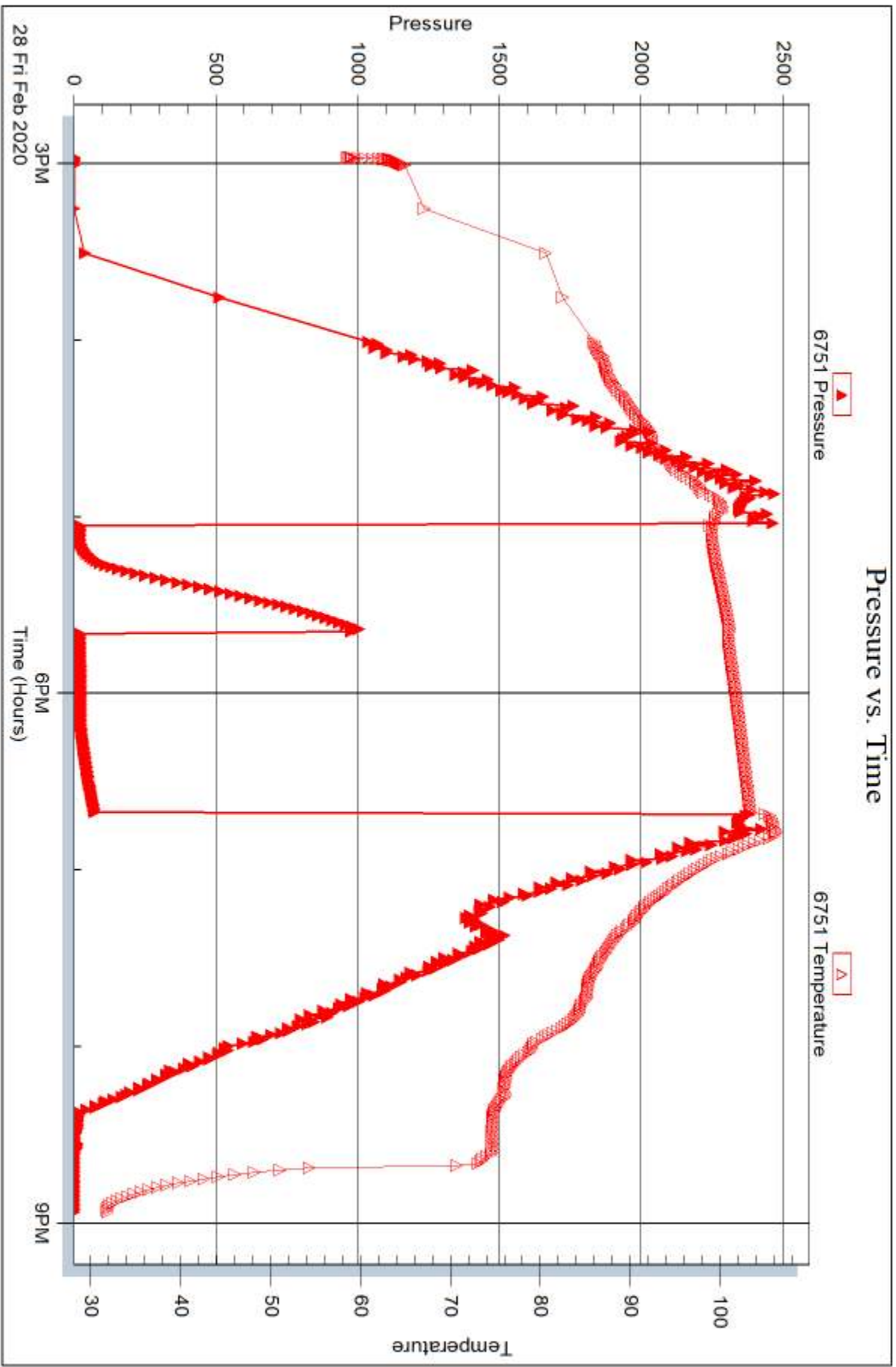
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Serial #: 6751

Outside Mall Drilling Co

Bouziden A #4-10

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65494

Printed: 2020.03.03 @ 10:17:39



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Bouziden A #4-10

10-32S-23W Clark,KS

Start Date: 2020.03.01 @ 08:38:00

End Date: 2020.03.01 @ 14:00:02

Job Ticket #: 65495 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.03.03 @ 10:17:13

Mull Drilling Co
10-32S-23W Clark,KS
Bouziden A #4-10
DST # 4
Mississippi
2020.03.01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mull Drilling Co
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita, KS 67206
 ATTN: Kevin Kessler

10-32S-23W Clark,KS
Bouziden A #4-10
 Job Ticket: 65495 **DST#: 4**
 Test Start: 2020.03.01 @ 08:38:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:35:02
 Time Test Ended: 14:00:02
 Interval: **5225.00 ft (KB) To 5290.00 ft (KB) (TVD)**
 Total Depth: 5290.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2134.00 ft (KB)
 2122.00 ft (CF)
 KB to GR/CF: 12.00 ft

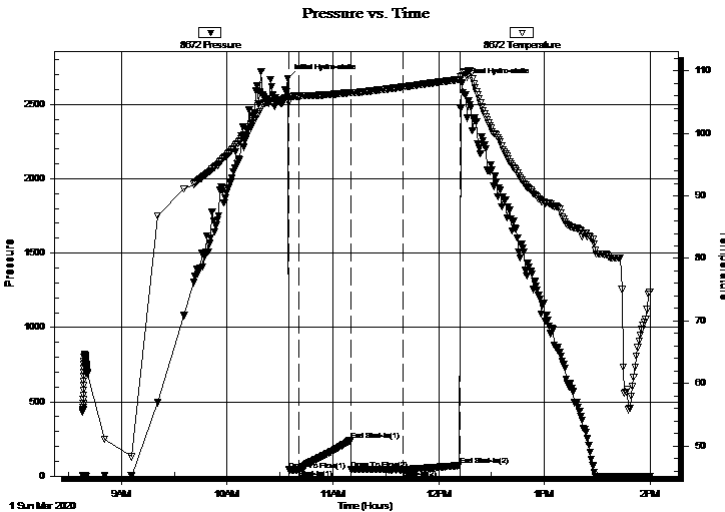
Serial #: 8672

Inside

Press@RunDepth: 43.33 psig @ 5226.00 ft (KB) Capacity: psig
 Start Date: 2020.03.01 End Date: 2020.03.01 Last Calib.: 2020.03.01
 Start Time: 08:38:01 End Time: 14:00:02 Time On Btm: 2020.03.01 @ 10:34:17
 Time Off Btm: 2020.03.01 @ 12:13:17

TEST COMMENT: IF: Weak Blow , Built to 3/4"
 IS: No Blow Back
 FF: No Blow
 FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2674.77	105.86	Initial Hydro-static
1	41.29	104.94	Open To Flow (1)
7	44.69	105.99	Shut-In(1)
36	241.43	106.50	End Shut-In(1)
36	45.66	106.50	Open To Flow (2)
66	43.33	107.45	Shut-In(2)
98	71.17	108.70	End Shut-In(2)
99	2644.41	109.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.14

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65495

DST#: 4

Test Start: 2020.03.01 @ 08:38:00

Tool Information

Drill Pipe:	Length: 5198.00 ft	Diameter: 3.80 inches	Volume: 72.91 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 72.91 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	2.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	5225.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5201.00	
Hydraulic tool	5.00			5206.00	
Jars	5.00			5211.00	
EM Tool	3.00			5214.00	
Safety Joint	2.00			5216.00	
Packer	5.00			5221.00	29.00 Bottom Of Top Packer
Packer	4.00			5225.00	
Stubb	1.00			5226.00	
Recorder	0.00	8672	Inside	5226.00	
Recorder	0.00	6751	Outside	5226.00	
Perforations	6.00			5232.00	
Change Over Sub	1.00			5233.00	
Drill Pipe	32.00			5265.00	
Change Over Sub	2.00			5267.00	
Perforations	20.00			5287.00	
Bullnose	3.00			5290.00	65.00 Bottom Packers & Anchor
Total Tool Length:	94.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkw y
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65495

DST#: 4

Test Start: 2020.03.01 @ 08:38:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6050.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

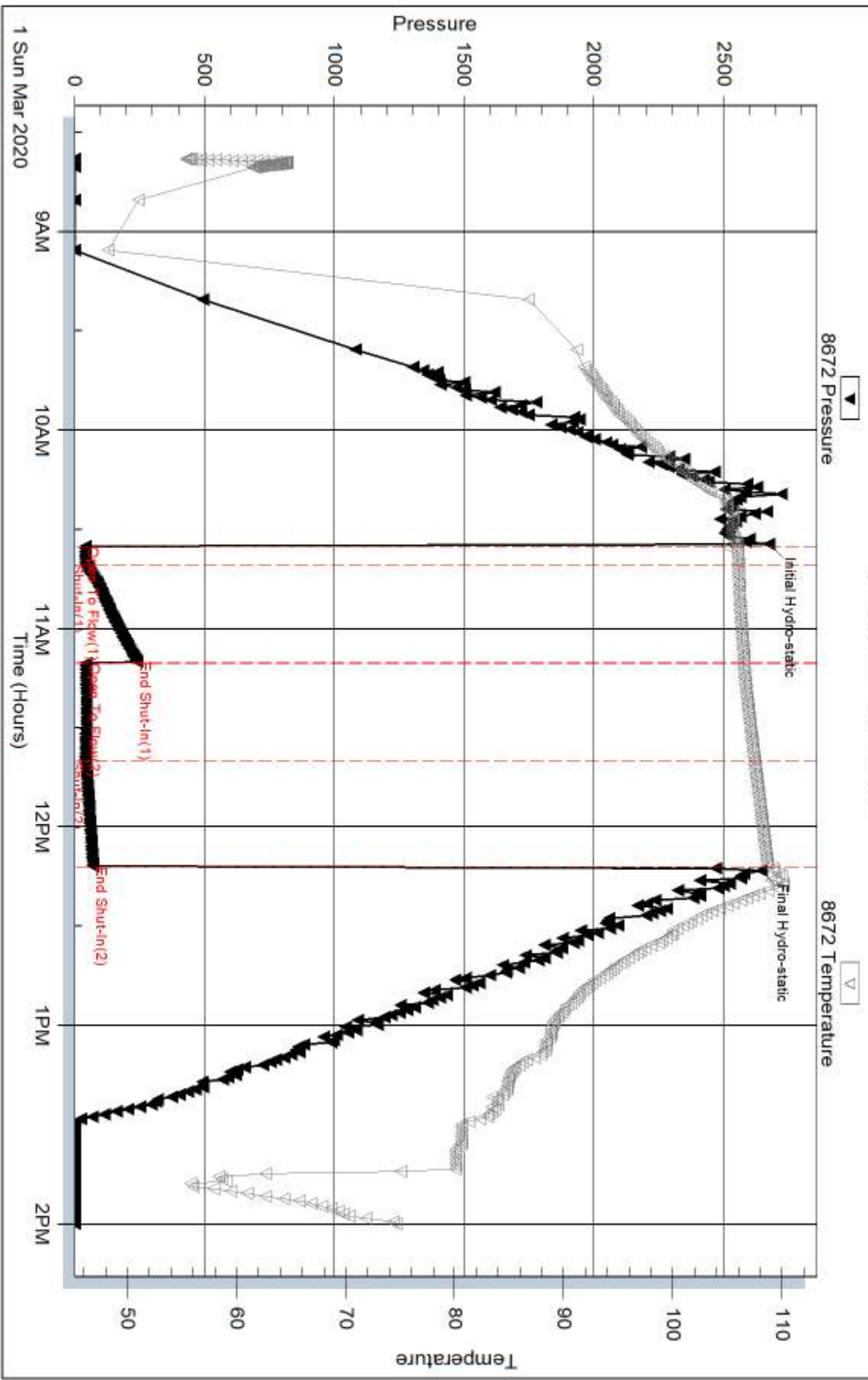
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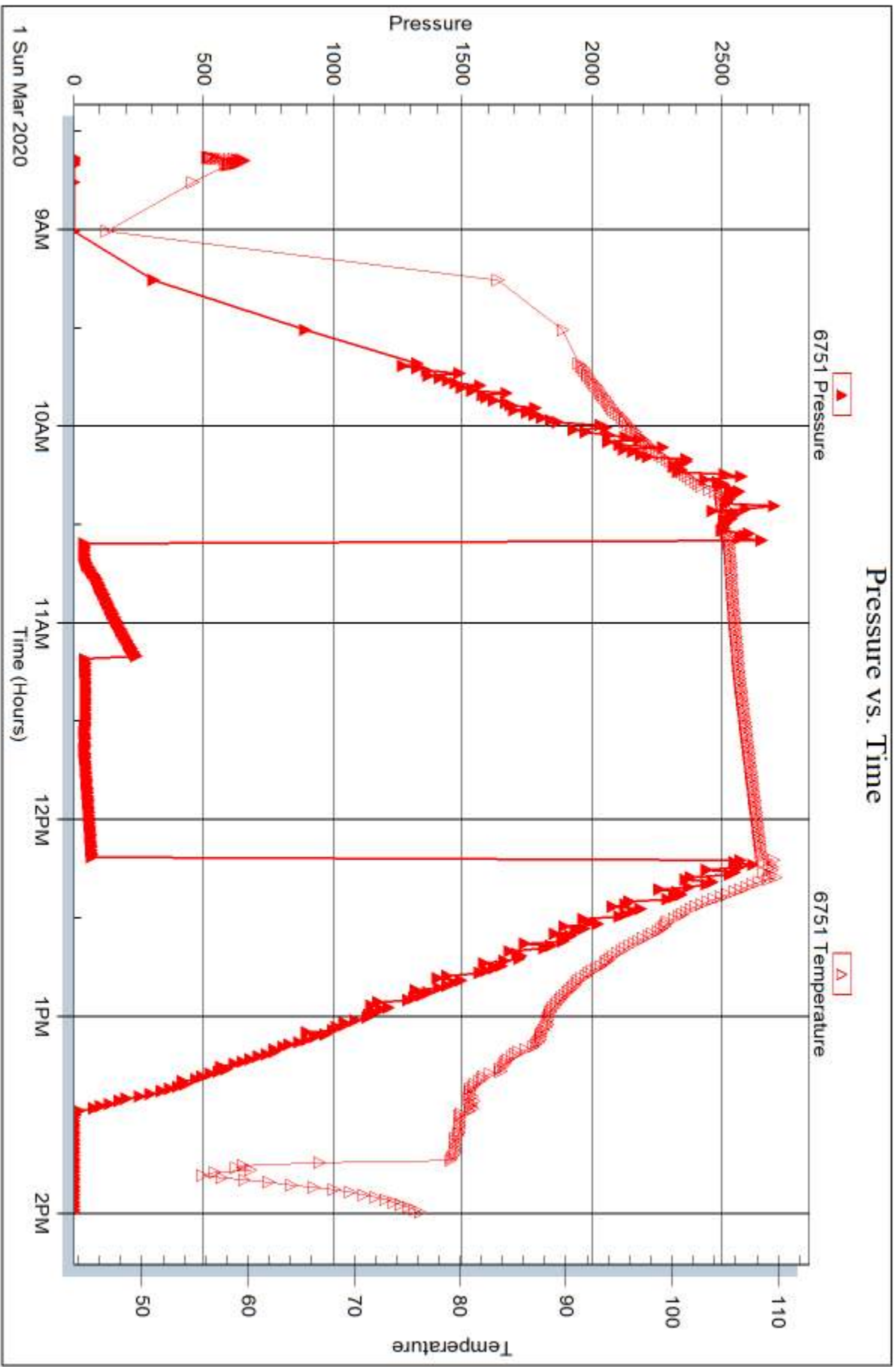
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Co**

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Bouziden A #4-10

10-32S-23W Clark,KS

Start Date: 2020.03.02 @ 14:55:00

End Date: 2020.03.02 @ 21:03:02

Job Ticket #: 65496 DST #: 5

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2020.03.03 @ 10:16:38

Mull Drilling Co
10-32S-23W Clark,KS
Bouziden A #4-10
DST # 5
St Louis
2020.03.02



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Co
 1700 N Waterfront Pkw y
 Bldg 1200
 Wichita, KS 67206
 ATTN: Kevin Kessler

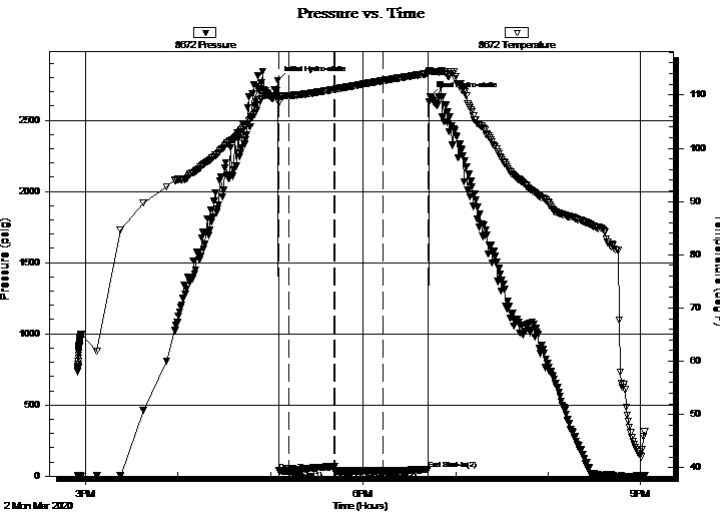
10-32S-23W Clark,KS
Bouziden A #4-10
 Job Ticket: 65496 **DST#: 5**
 Test Start: 2020.03.02 @ 14:55:00

GENERAL INFORMATION:

Formation: **St Louis**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 17:05:32
 Time Test Ended: 21:03:02
 Interval: **5450.00 ft (KB) To 5510.00 ft (KB) (TVD)**
 Total Depth: 5510.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Leal Cason
 Unit No: 74
 Reference Elevations: 2134.00 ft (KB)
 2122.00 ft (CF)
 KB to GR/CF: 12.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 38.06 psig @ 5451.00 ft (KB) Capacity: psig
 Start Date: 2020.03.02 End Date: 2020.03.02 Last Calib.: 2020.03.02
 Start Time: 14:55:01 End Time: 21:03:02 Time On Btm: 2020.03.02 @ 17:04:47
 Time Off Btm: 2020.03.02 @ 18:43:17

TEST COMMENT: IF: Weak Surface Blow
 IS: No Blow Back
 FF: No Blow
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2778.64	109.86	Initial Hydro-static
1	36.18	108.48	Open To Flow (1)
7	38.05	109.89	Shut-In(1)
37	68.85	111.06	End Shut-In(1)
37	36.93	111.08	Open To Flow (2)
68	38.06	112.69	Shut-In(2)
98	46.68	114.08	End Shut-In(2)
99	2663.65	114.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.03

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65496

DST#: 5

Test Start: 2020.03.02 @ 14:55:00

Tool Information

Drill Pipe:	Length: 5450.00 ft	Diameter: 3.80 inches	Volume: 76.45 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 76.45 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	5450.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	89.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			5426.00	
Hydraulic tool	5.00			5431.00	
Jars	5.00			5436.00	
EM Tool	3.00			5439.00	
Safety Joint	2.00			5441.00	
Packer	5.00			5446.00	29.00 Bottom Of Top Packer
Packer	4.00			5450.00	
Stubb	1.00			5451.00	
Recorder	0.00	8672	Inside	5451.00	
Recorder	0.00	6751	Outside	5451.00	
Perforations	6.00			5457.00	
Change Over Sub	1.00			5458.00	
Drill Pipe	32.00			5490.00	
Change Over Sub	2.00			5492.00	
Perforations	15.00			5507.00	
Bullnose	3.00			5510.00	60.00 Bottom Packers & Anchor
Total Tool Length:	89.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Co

10-32S-23W Clark,KS

1700 N Waterfront Pkwy
Bldg 1200
Wichita, KS 67206
ATTN: Kevin Kessler

Bouziden A #4-10

Job Ticket: 65496

DST#: 5

Test Start: 2020.03.02 @ 14:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 6800.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.028

Total Length: 2.00 ft Total Volume: 0.028 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

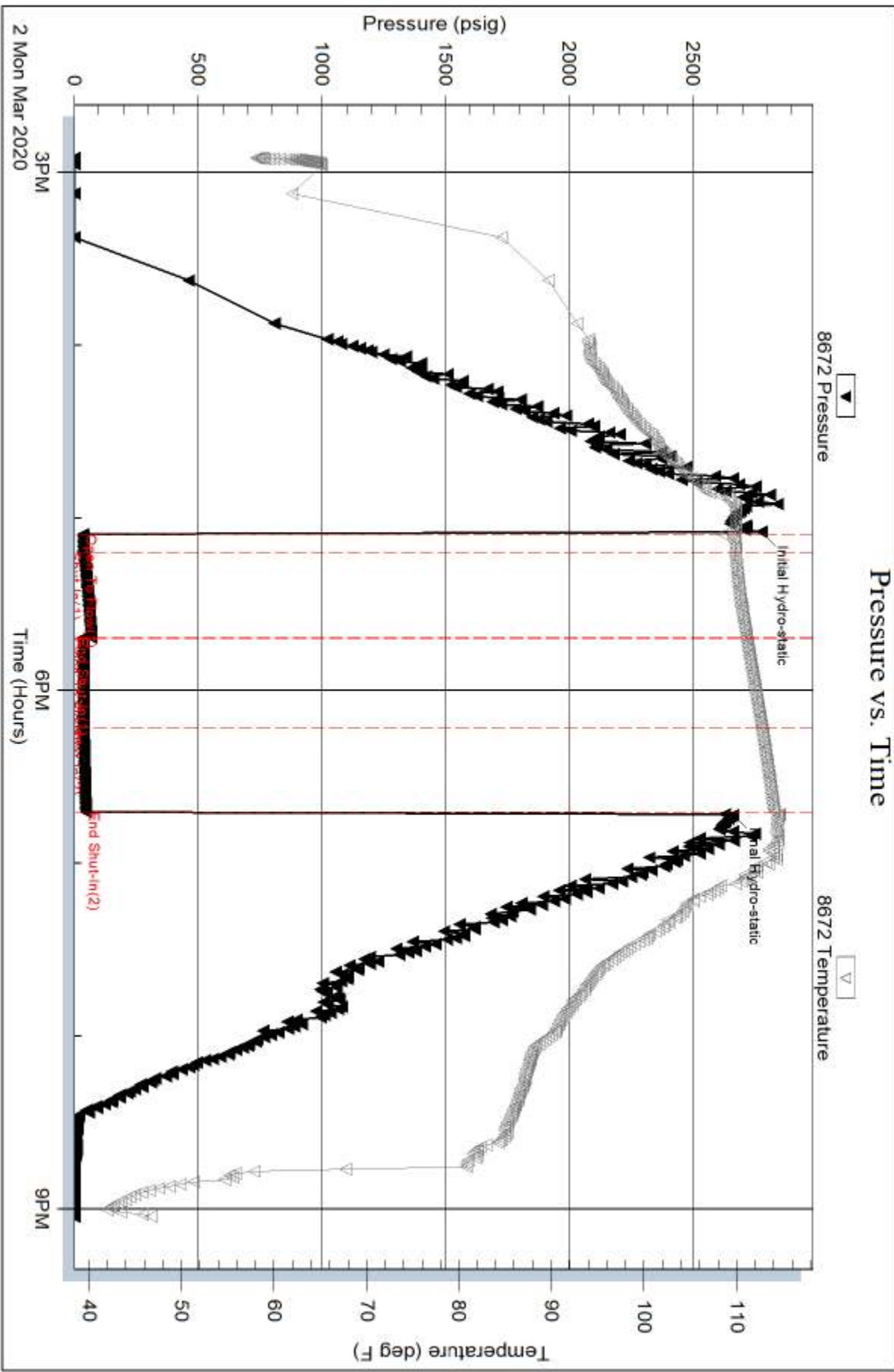
Serial #: 8672

Inside

Mull Drilling Co

Bouziden A #4-10

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 65496

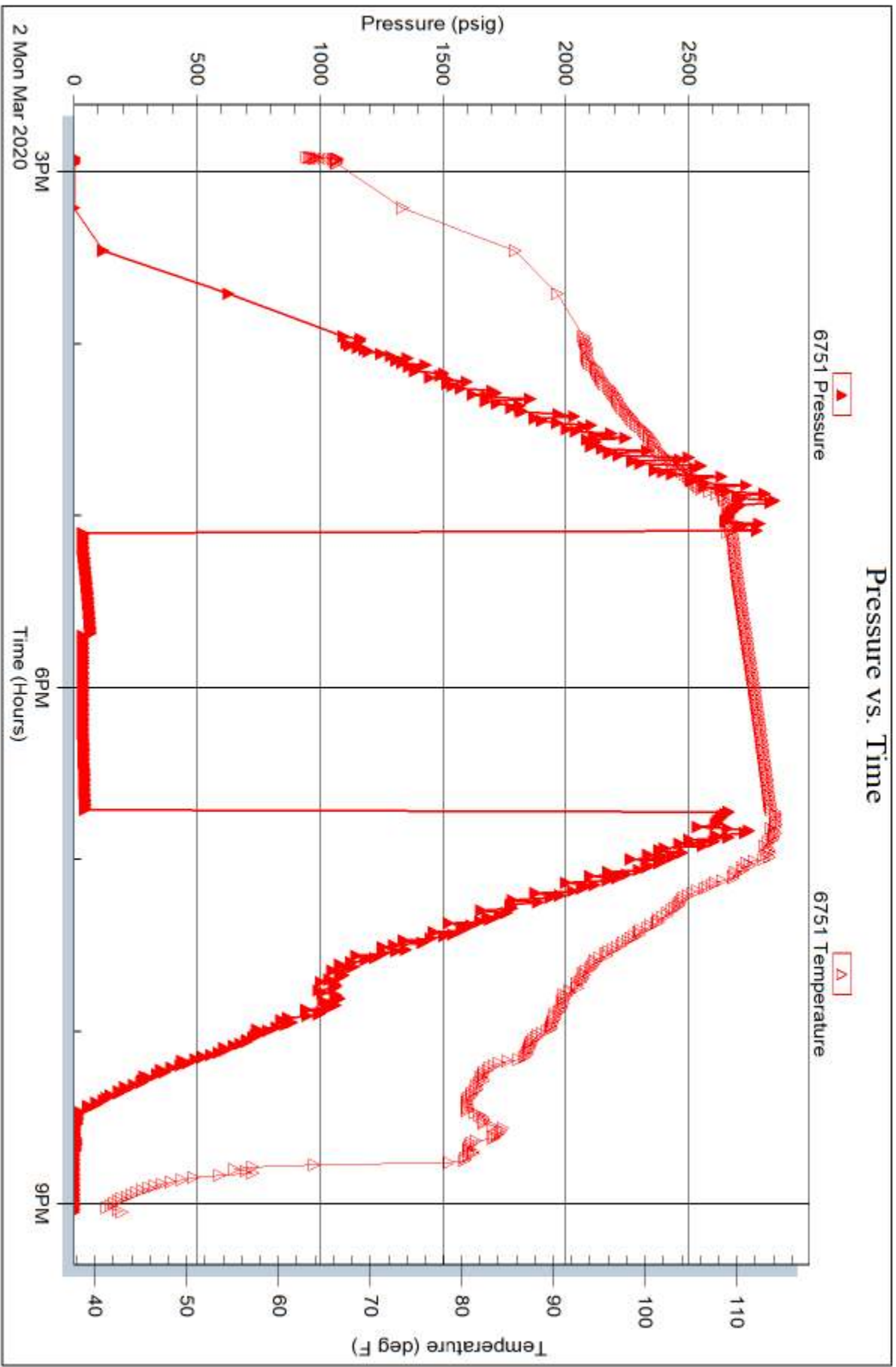
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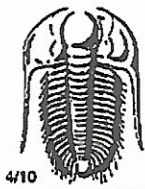
Serial #: 6751

Outside Mall Drilling Co

Bouziden A #4-10

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65492

Well Name & No. 4-10 Bouziden A Test No. 1 Date 02/26/20
 Company M Hall Drilling Co Elevation ~~2134~~ 2134 KB ~~2122~~ 2122 GL
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 1
 Location: Sec. 10 Twp 32S Rge. 23W Co. Clark State KS

Interval Tested 4500 - 4530 Zone Tested Lansing "B"
 Anchor Length 30 Drill Pipe Run 4503 Mud Wt. 9.2
 Top Packer Depth 4495 Drill Collars Run 0 Vis 64
 Bottom Packer Depth 4500 Wt. Pipe Run 0 WL 8.4
 Total Depth 4530 Chlorides 7600 ppm System LCM 2

Blow Description IF: Strong Blow, Built to 11 inches
ISI: NO BLOW BACK
FF: Strong Blow, BOB in 7 minutes, Built to 85 inches
FST: NO BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>GIP</u>				
<u>219</u>	<u>MCW</u>			<u>84</u>	<u>16</u>
<u>1164</u>	<u>Water</u>				
Rec Total	<u>1383</u>	BHT	<u>116</u>	Gravity	<u>NIC</u> API RW <u>.18 @ 40° F</u> Chlorides <u>75000</u> ppm

(A) Initial Hydrostatic 2559 Test 1300 T-On Location 15:00
 (B) First Initial Flow 62 Jars 250 T-Started 16:25
 (C) First Final Flow 108 Safety Joint 75 T-Open 19:23
 (D) Initial Shut-In 1562 Circ Sub _____ T-Pulled 22:03
 (E) Second Initial Flow 104 Hourly Standby _____ T-Out 00:29
 (F) Second Final Flow 544 Mileage 190 190 Comments _____
 (G) Final Shut-In 1559 Sampler _____
 (H) Final Hydrostatic 2192 Straddle _____
 Shale Packer _____ EM Tool 350
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2165.00
 Sub Total 1815 MP/DST Disc't _____

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65493

Well Name & No. 4-10 Bouziden A Test No. 2 Date 02/27/20
 Company Mull Drilling CO Elevation 2134 KB 2122 GL
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 1
 Location: Sec. 10 Twp 32S Rge. 23W Co. Clark State KS

Interval Tested 4695 - 4730 Zone Tested Lansing "F"
 Anchor Length 35 Drill Pipe Run 4693 Mud Wt. 9.45
 Top Packer Depth 4690 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4695 Wt. Pipe Run 0 WL 8.0
 Total Depth 4730 Chlorides 8600 ppm System LCM 2

Blow Description IF: Weak Blow, Built to 4 1/2 inches
ISI: NO BLOW BACK
FF: Fair Blow, BOB in 28 minutes, Built to 23 1/2 inches
FSE: NO BLOW BACK

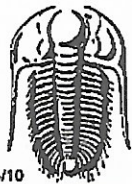
Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Mud</u>				
<u>315</u>	<u>MCW</u>		<u>88</u>	<u>12</u>	
<u>355</u>	<u>BHT 114</u>				

Rec Total 355 BHT 114 Gravity NIC API RW .18 @ 42 ° F Chlorides 68000 ppm

(A) Initial Hydrostatic <u>2371</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>16:00</u>
(B) First Initial Flow <u>29</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>16:15</u>
(C) First Final Flow <u>48</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>18:36</u>
(D) Initial Shut-In <u>1631</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>20:49</u>
(E) Second Initial Flow <u>52</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:15</u>
(F) Second Final Flow <u>195</u>	<input checked="" type="checkbox"/> Mileage <u>190</u> 190	Comments
(G) Final Shut-In <u>1601</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2276</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350 NC NS</u>
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>40</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1815</u>
	Sub Total <u>1815</u>	MP/DST Disc't

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65494

Well Name & No. 4-10 Bouziden A Test No. 3 Date 02/28/20
 Company Mull Drilling CO Elevation 2134 KB 2122 GL
 Address 1700 N. Waterfront PKwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 1
 Location: Sec. 10 Twp 32S Rge. 23W Co. Clark State KS

Interval Tested 4870 - 4916 Zone Tested Lansing "K"
 Anchor Length 46 Drill Pipe Run 4852 Mud Wt. 9.25
 Top Packer Depth 4865 Drill Collars Run 0 Vis 56
 Bottom Packer Depth 4870 Wt. Pipe Run 0 WL 8.4
 Total Depth 4916 Chlorides 6800 ppm System LCM 3 1/2

Blow Description IF: weak blow, built to 3/4 inch
 IST: NO Blow Back
 FF: NO BLOW
 FSI: NO Blow Back

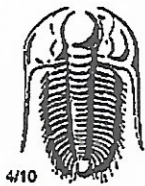
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				

Rec Total 5 BHT 106 Gravity NIC API RW NIC @ NIC °F Chlorides NIC ppm

(A) Initial Hydrostatic <u>2470</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>14:30</u>
(B) First Initial Flow <u>21</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:58</u>
(C) First Final Flow <u>23</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>17:02</u>
(D) Initial Shut-In <u>1013</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>18:40</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>20:54</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>190</u> 190	Comments
(G) Final Shut-In <u>74</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2461</u>	<input type="checkbox"/> Straddle	<input checked="" type="checkbox"/> EM Tool <u>350</u>
Initial Open <u>5</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>350</u>
	<input type="checkbox"/> Accessibility	Total <u>2165</u>
	Sub Total <u>1815</u>	MP/DST Disc't

Approved By Kevin Kessler Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65495

Well Name & No. 4-10 Borziden A Test No. 4 Date 03/01/20
 Company Mull Drilling Co Elevation 2134 KB 2122 GL
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 1
 Location: Sec. 10 Twp 32S Rge. 23W Co. Clark State KS

Interval Tested 5225 - 5290 Zone Tested Mississippi
 Anchor Length 65 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 5220 Drill Collars Run 0 Vis 51
 Bottom Packer Depth 5225 Wt. Pipe Run 0 WL 9.2
 Total Depth 5290 Chlorides 6050 ppm System LCM 3

Blow Description IF: weak Blow, Built to 3/4 inch
ISI: NO Blow Back
FE: NO Blow
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>mud</u>				
_____	_____				
_____	_____				
_____	_____				

Rec Total 10 BHT 110 Gravity NIC API RW NIC @ NIC F Chlorides NIC ppm

(A) Initial Hydrostatic 2675 Test 1400 T-On Location 07:00
 (B) First Initial Flow 41 Jars 250 T-Started 08:38
 (C) First Final Flow 45 Safety Joint 75 T-Open 10:35
 (D) Initial Shut-In 241 Circ Sub _____ T-Pulled 12:12
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 14:00
 (F) Second Final Flow 43 Mileage 190 190 Comments _____
 (G) Final Shut-In 71 Sampler _____
 (H) Final Hydrostatic 2644 Straddle _____
 Shale Packer _____ EM Tool 350
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2265
 Sub Total 1915 MP/DST Disc't _____

Approved By Kevin Kessler Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65496

Well Name & No. 4-10 ~~Belle~~ ^{Boyziden} A Test No. 4 Date 03/02/20
 Company Mull Drilling CO Elevation 2134 KB 2122 GL
 Address 1700 N. Waterfront Pkwy Bldg 1200 Wichita, KS 67206
 Co. Rep / Geo. Kevin Kessler Rig Duke 1
 Location: Sec. 10 Twp 32S Rge. 23W Co. Clark State KS

Interval Tested 5450 - 5510 Zone Tested ST Louis
 Anchor Length 60 Drill Pipe Run 5450 Mud Wt. 9.4
 Top Packer Depth 5445 Drill Collars Run 0 Vis 57
 Bottom Packer Depth 5450 Wt. Pipe Run 0 WL 8.8
 Total Depth 5510 Chlorides 6800 ppm System LCM 2

Blow Description IF. weak surface Blow
ISI: NO Blow Back
FF: NO BLOW
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2 BHT 115 Gravity NK API RW NK @ NRF Chlorides NK ppm
 (A) Initial Hydrostatic 2779 Test 1400 T-On Location 14:00
 (B) First Initial Flow 36 Jars 250 T-Started 14:55
 (C) First Final Flow 38 Safety Joint 75 T-Open 17:05
 (D) Initial Shut-In 69 Circ Sub _____ T-Pulled 18:42
 (E) Second Initial Flow 37 Hourly Standby _____ T-Out 21:03
 (F) Second Final Flow 38 Mileage 190 190 Comments _____
 (G) Final Shut-In 46 Sampler _____
 (H) Final Hydrostatic 2663 Straddle _____ EM Tool 350 NC N/S
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 1915
 Sub Total 1915
 MP/DST Disc't _____

Approved By Kevin Kessler Our Representative _____

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KEVIN L. KESSLER

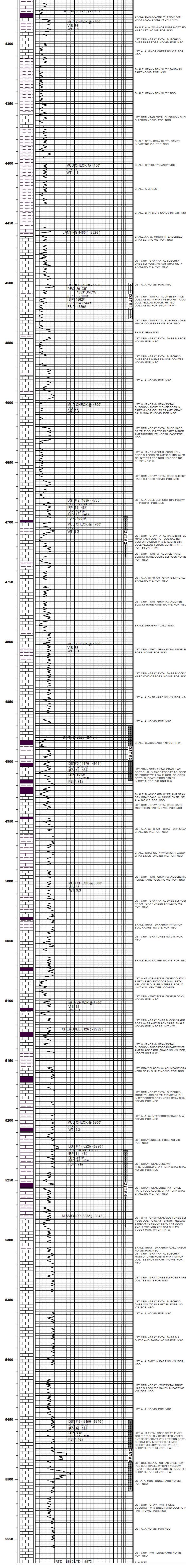
CONSULTING PETROLEUM GEOLOGIST

(316) 522 - 7338

OPERATOR : MULL DRILLING COMPANY INC.				ELEVATION	
LEASE : BOUZIDEN "A"		WELL # : 4 - 10		KB: 2134'	
LOCATION : 1385' FSL & 1195' FEL				GL: 2122'	
SEC : 10	TWP : 32 S	RGE : 23 W		MEASUREMENTS FROM:	
COUNTY : CLARK		STATE : KANSAS		KB	
CONTRACTOR: DUKE RIG # 1				CASING RECORD:	
COMM: 02/19/2020		COMP: 03/03/2020		SURFACE:	
RTD: 5570'		LTD: 5572'		8 5/8" @ 610'	
GEOLOGICAL SUPERVISION FROM: 4200'				PRODUCTION:	
SAMPLES SAVED FROM: 4200'				NONE	

FORMATION:	TOP	LOG DATUM	TOP	SAMPLE DATUM	COMP.	ELECTRICAL SURVEYS:	
HEEBNER	4275	- 2141	4275	- 2141	- 13		DIL CNL/CDL MICRO SONIC
LANSING	4460	- 2326	4460	- 2326	- 16		
STARK	4882	- 2748	4882	- 2748	- 20		
CHEROKEE	5126	- 2992	5126	- 2992	- 18		
MISSISSIPPI	5282	- 3148	5282	- 3148	- 28		

REFERENCE WELL FOR STRUCTURAL COMPARISON:
MULL DRILLING # 2-10 BOUZIDEN UNIT CLARK COUNTY KS



COMMENTS:
DUE TO NEGATIVE DST RESULTS THIS WELL WAS PLUGGED AND ABANDONED

KEVIN L. KESSLER