

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](mailto: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	BLOOM 2-3
Doc ID	1461000

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	BLOOM 2-3
Doc ID	1461000

Tops

Name	Top	Datum
Anhydrite	2534	+ 465
B/Anhydrite	2562	+ 437
Heebner	4011	- 1012
Lansing	4055	- 1056
Stark	4275	- 1276
Marmaton	4368	- 1369
Pawnee	4458	- 1459
Ft. Scott	4523	- 1524
Cherokee	4549	- 1550
Mississippian	4710	- 1711







## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

ATTN: Phil Askey

### **Bloom #2-3**

### **3-11s-31w Gove,KS**

Start Date: 2019.03.27 @ 08:07:00

End Date: 2019.03.27 @ 14:30:00

Job Ticket #: 65352                      DST #: 1

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

Printed: 2019.04.02 @ 14:18:43



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Company Inc  
 1700 North Waterfront Pkwy Bldg 1200  
 Wichita KS 67206  
 ATTN: Phil Askey

**3-11s-31w Gove,KS**  
**Bloom #2-3**  
 Job Ticket: 65352      **DST#: 1**  
 Test Start: 2019.03.27 @ 08:07:00

## GENERAL INFORMATION:

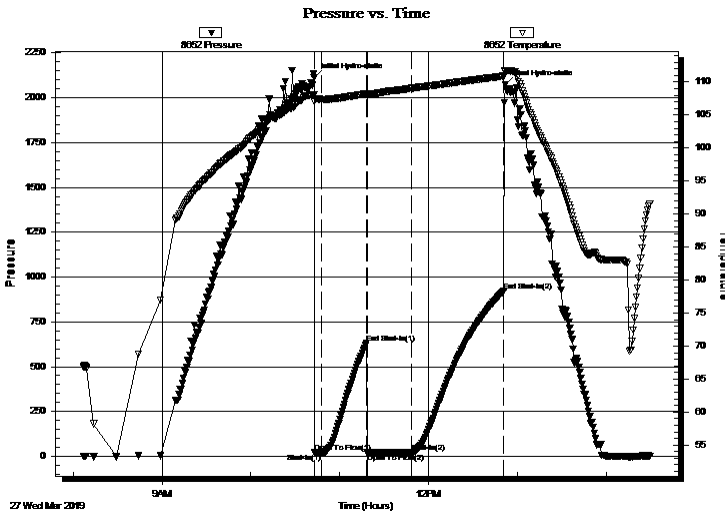
Formation: **LKC "I-K"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:43:00  
 Time Test Ended: 14:30:00  
 Interval: **4209.00 ft (KB) To 4300.00 ft (KB) (TVD)**  
 Total Depth: 4300.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: James Winder/ Shaw n  
 Unit No: 83  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

## Serial #: 8652 Outside

Press@RunDepth: 21.02 psig @ 4210.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2019.03.27      End Date: 2019.03.27      Last Calib.: 2019.03.27  
 Start Time: 08:07:05      End Time: 14:29:59      Time On Btm: 2019.03.27 @ 10:42:45  
 Time Off Btm: 2019.03.27 @ 12:52:00

TEST COMMENT: 5 IF 1/4" blow at open built slightly  
 30 ISI no blow back  
 30 FF no blow  
 60 FSI no blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2111.26	108.11	Initial Hydro-static
1	20.84	107.00	Open To Flow (1)
6	18.85	107.36	Shut-In(1)
36	632.25	108.23	End Shut-In(1)
36	19.50	107.99	Open To Flow (2)
66	21.02	109.04	Shut-In(2)
129	921.99	110.89	End Shut-In(2)
130	2071.49	111.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud w / trace of oil 100%m	0.05

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Company Inc  
1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206  
ATTN: Phil Askey

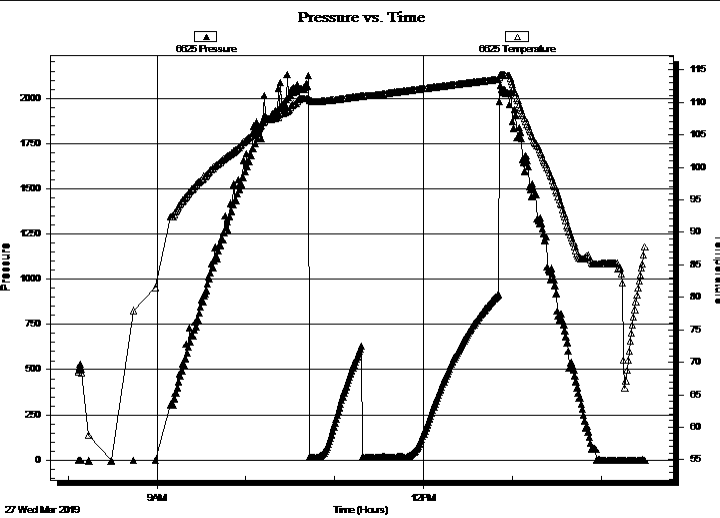
**3-11s-31w Gove,KS**  
**Bloom #2-3**  
Job Ticket: 65352      **DST#: 1**  
Test Start: 2019.03.27 @ 08:07:00

**GENERAL INFORMATION:**

Formation: **LKC "I-K"**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 10:43:00  
Time Test Ended: 14:30:00  
**Interval: 4209.00 ft (KB) To 4300.00 ft (KB) (TVD)**  
Total Depth: 4300.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: James Winder/ Shaw n  
Unit No: 83  
Reference Elevations: 2999.00 ft (KB)  
2994.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 6625**      **Inside**  
Press@RunDepth:                      psig @ 4210.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2019.03.27      End Date: 2019.03.27      Last Calib.: 2019.03.27  
Start Time: 08:07:05      End Time: 14:29:59      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 5 IF 1/4" blow at open built slightly  
30 ISI no blow back  
30 FF no blow  
60 FSI no blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	mud w / trace of oil 100%m	0.05

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65352

**DST#: 1**

ATTN: Phil Askey

Test Start: 2019.03.27 @ 08:07:00

## Tool Information

Drill Pipe:	Length: 4079.00 ft	Diameter: 3.80 inches	Volume: 57.22 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 57.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4209.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	91.00 ft			
Tool Length:	112.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4189.00	
Shut In Tool	5.00			4194.00	
Hydraulic tool	5.00			4199.00	
Packer	5.00			4204.00	21.00 Bottom Of Top Packer
Packer	5.00			4209.00	
Stubb	1.00			4210.00	
Recorder	0.00	6625	Inside	4210.00	
Recorder	0.00	8652	Outside	4210.00	
Perforations	21.00			4231.00	
Blank Spacing	65.00			4296.00	
Perforations	1.00			4297.00	
Bullnose	3.00			4300.00	91.00 Bottom Packers & Anchor

**Total Tool Length: 112.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65352

**DST#: 1**

ATTN: Phil Askey

Test Start: 2019.03.27 @ 08:07:00

## 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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mud w / trace of oil 100%m	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

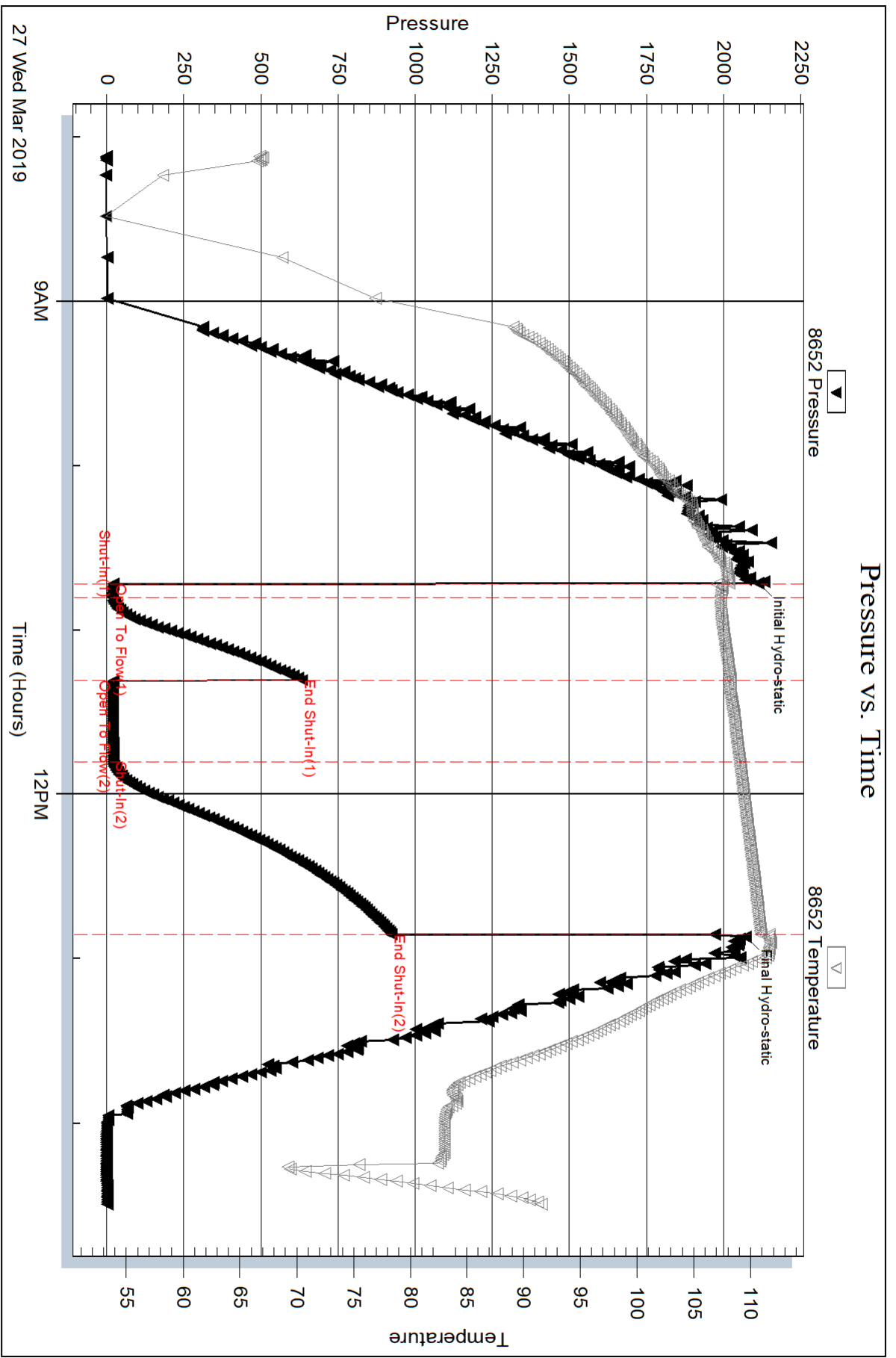
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



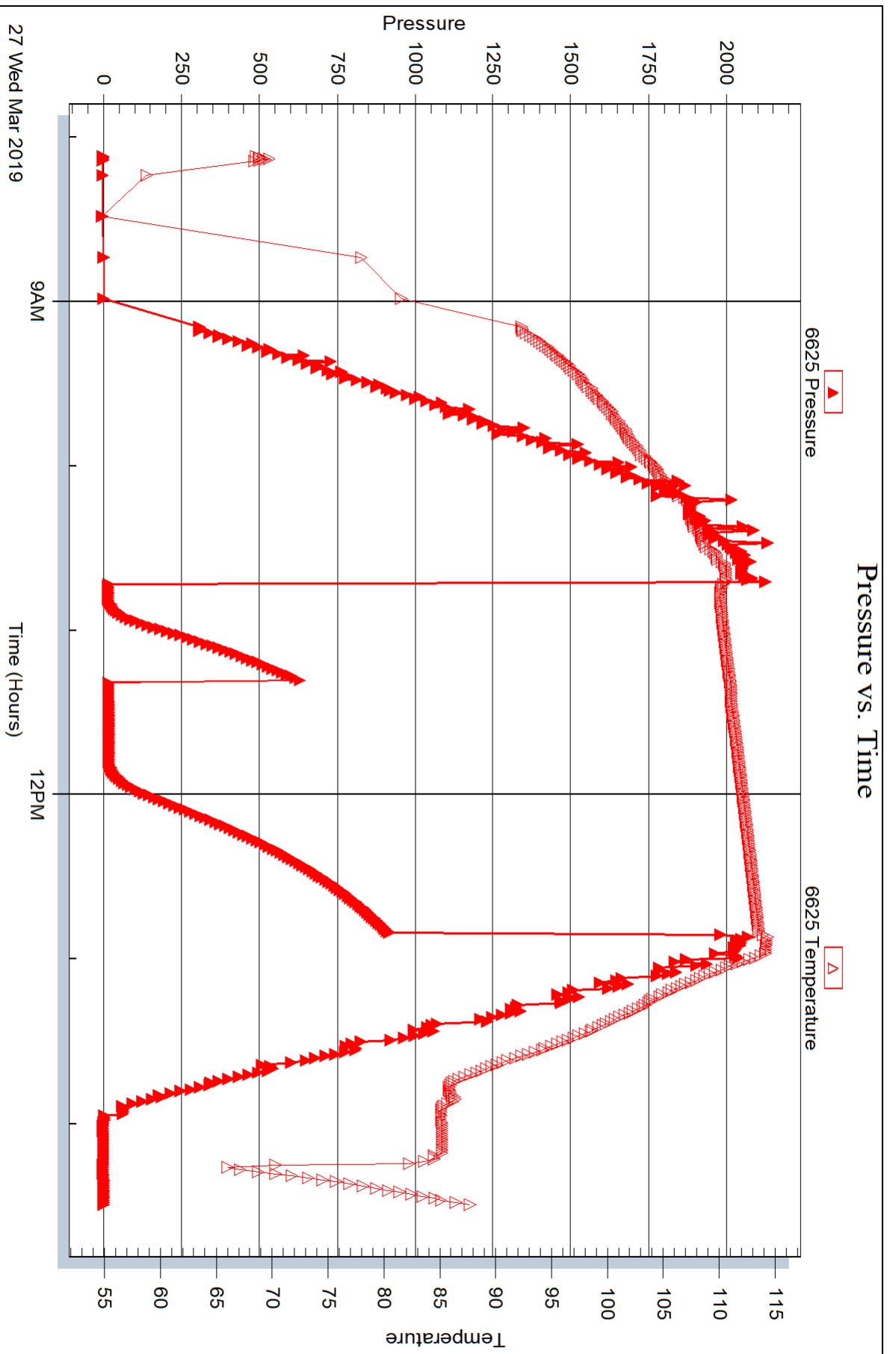
Serial #: 6625

Inside

Mull Drilling Company Inc

Bloom #2-3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65352

Printed: 2019.04.02 @ 14:18:44



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

ATTN: Phil Askey

### **Bloom #2-3**

### **3-11s-31w Gove,KS**

Start Date: 2019.03.27 @ 23:38:00

End Date: 2019.03.28 @ 05:52:30

Job Ticket #: 65353                      DST #: 2

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

Printed: 2019.04.02 @ 14:16:15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Company Inc  
 1700 North Waterfront Pkwy Bldg 1200  
 Wichita KS 67206  
 ATTN: Phil Askey

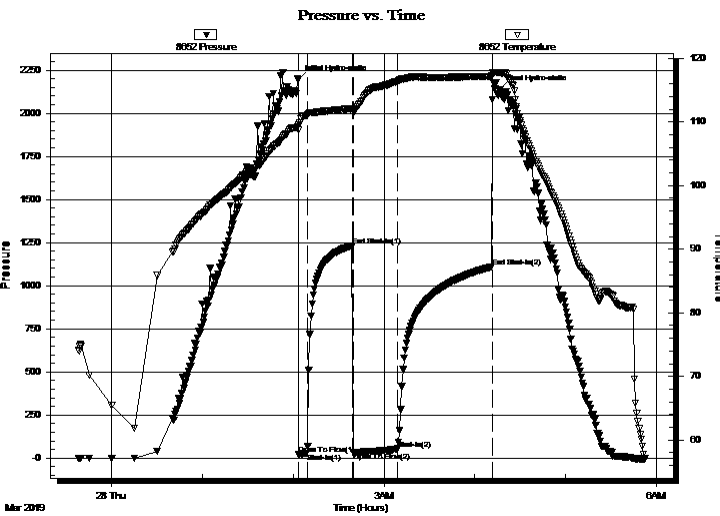
**3-11s-31w Gove,KS**  
**Bloom #2-3**  
 Job Ticket: 65353 **DST#: 2**  
 Test Start: 2019.03.27 @ 23:38:00

## GENERAL INFORMATION:

Formation: **Pleasanton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:03:30  
 Time Test Ended: 05:52:30  
 Interval: **4325.00 ft (KB) To 4345.00 ft (KB) (TVD)**  
 Total Depth: 4345.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder/ Shaw n  
 Unit No: 83  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8652 Outside**  
 Press@RunDepth: 51.00 psig @ 4326.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.03.27 End Date: 2019.03.28 Last Calib.: 2019.03.28  
 Start Time: 23:38:05 End Time: 05:52:29 Time On Btm: 2019.03.28 @ 02:03:15  
 Time Off Btm: 2019.03.28 @ 04:16:30

**TEST COMMENT:** 5 IF blow built to 1"  
 30 ISI no blow back  
 30 FF blow built to 2"  
 60 FSI no blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2194.47	109.55	Initial Hydro-static
1	20.15	108.71	Open To Flow (1)
6	28.38	110.97	Shut-In(1)
36	1232.90	112.13	End Shut-In(1)
37	30.55	111.75	Open To Flow (2)
66	51.00	116.39	Shut-In(2)
128	1110.02	117.19	End Shut-In(2)
134	2137.30	117.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
75.00	MCW 73%w 27%m	0.37

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Mull Drilling Company Inc  
1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206  
ATTN: Phil Askey

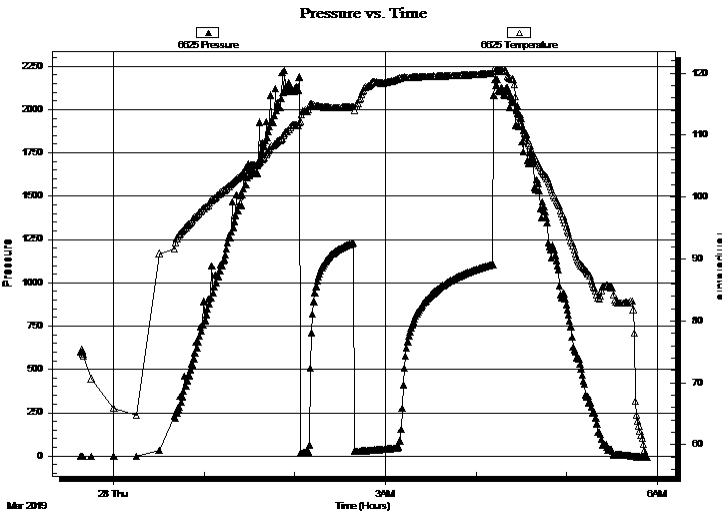
**3-11s-31w Gove,KS**  
**Bloom #2-3**  
Job Ticket: 65353 **DST#: 2**  
Test Start: 2019.03.27 @ 23:38:00

### GENERAL INFORMATION:

<b>Formation:</b> Pleasanton		<b>Test Type:</b> Conventional Bottom Hole (Reset)
<b>Deviated:</b> No Whipstock: ft (KB)		<b>Tester:</b> James Winder/ Shaw n
<b>Time Tool Opened:</b> 02:03:30		<b>Unit No:</b> 83
<b>Time Test Ended:</b> 05:52:30		<b>Reference Elevations:</b> 2999.00 ft (KB)
<b>Interval:</b> 4325.00 ft (KB) To 4345.00 ft (KB) (TVD)		2994.00 ft (CF)
<b>Total Depth:</b> 4345.00 ft (KB) (TVD)		<b>KB to GR/CF:</b> 5.00 ft
<b>Hole Diameter:</b> 7.88 inches <b>Hole Condition:</b> Fair		

<b>Serial #: 6625</b> <b>Inside</b>		<b>Capacity:</b> 8000.00 psig
<b>Press@RunDepth:</b> psig @ 4326.00 ft (KB)		<b>Last Calib.:</b> 2019.03.28
<b>Start Date:</b> 2019.03.27 <b>End Date:</b> 2019.03.28		<b>Time On Btm:</b>
<b>Start Time:</b> 23:38:05 <b>End Time:</b> 05:53:14		<b>Time Off Btm:</b>

**TEST COMMENT:** 5 IF blow built to 1"  
30 ISI no blow back  
30 FF blow built to 2"  
60 FSI no blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
75.00	MCW 73%w 27%m	0.37

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65353

**DST#: 2**

ATTN: Phil Askey

Test Start: 2019.03.27 @ 23:38:00

## Tool Information

Drill Pipe:	Length: 4205.00 ft	Diameter: 3.80 inches	Volume: 58.99 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose:	82000.00 lb
			<u>Total Volume: 59.56 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4325.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	41.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4305.00	
Shut In Tool	5.00			4310.00	
Hydraulic tool	5.00			4315.00	
Packer	5.00			4320.00	21.00 Bottom Of Top Packer
Packer	5.00			4325.00	
Stubb	1.00			4326.00	
Recorder	0.00	6625	Inside	4326.00	
Recorder	0.00	8652	Outside	4326.00	
Perforations	16.00			4342.00	
Bullnose	3.00			4345.00	20.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>41.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65353

**DST#: 2**

ATTN: Phil Askey

Test Start: 2019.03.27 @ 23:38:00

## 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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	MCW 73%w 27%m	0.369

Total Length: 75.00 ft      Total Volume: 0.369 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw =.32 ohm @52.6deg F chlorides=32,000ppm

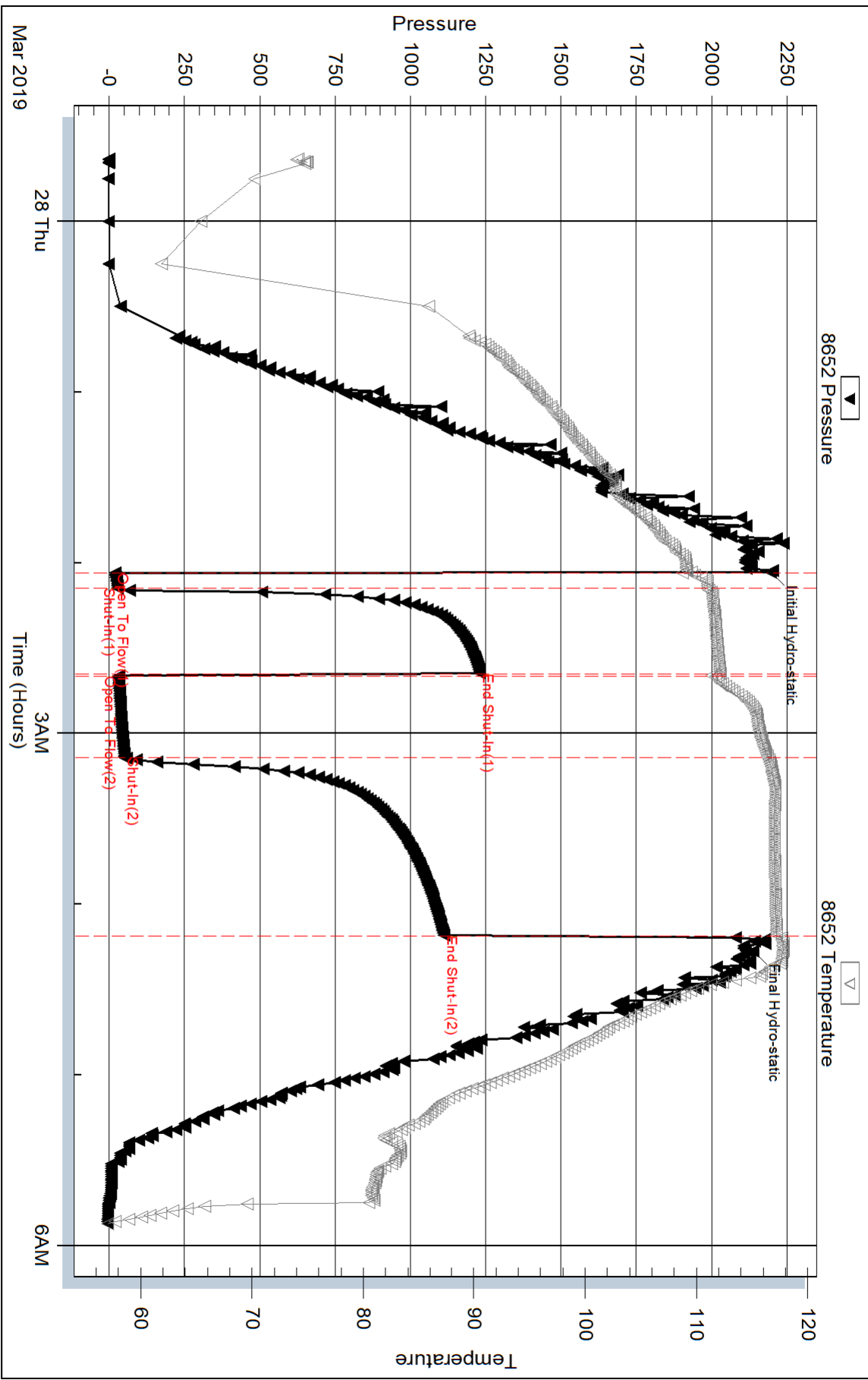
Serial #: 8652

Outside Mull Drilling Company Inc

Bloom #2-3

DST Test Number: 2

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 65353

Printed: 2019.04.02 @ 14:16:16

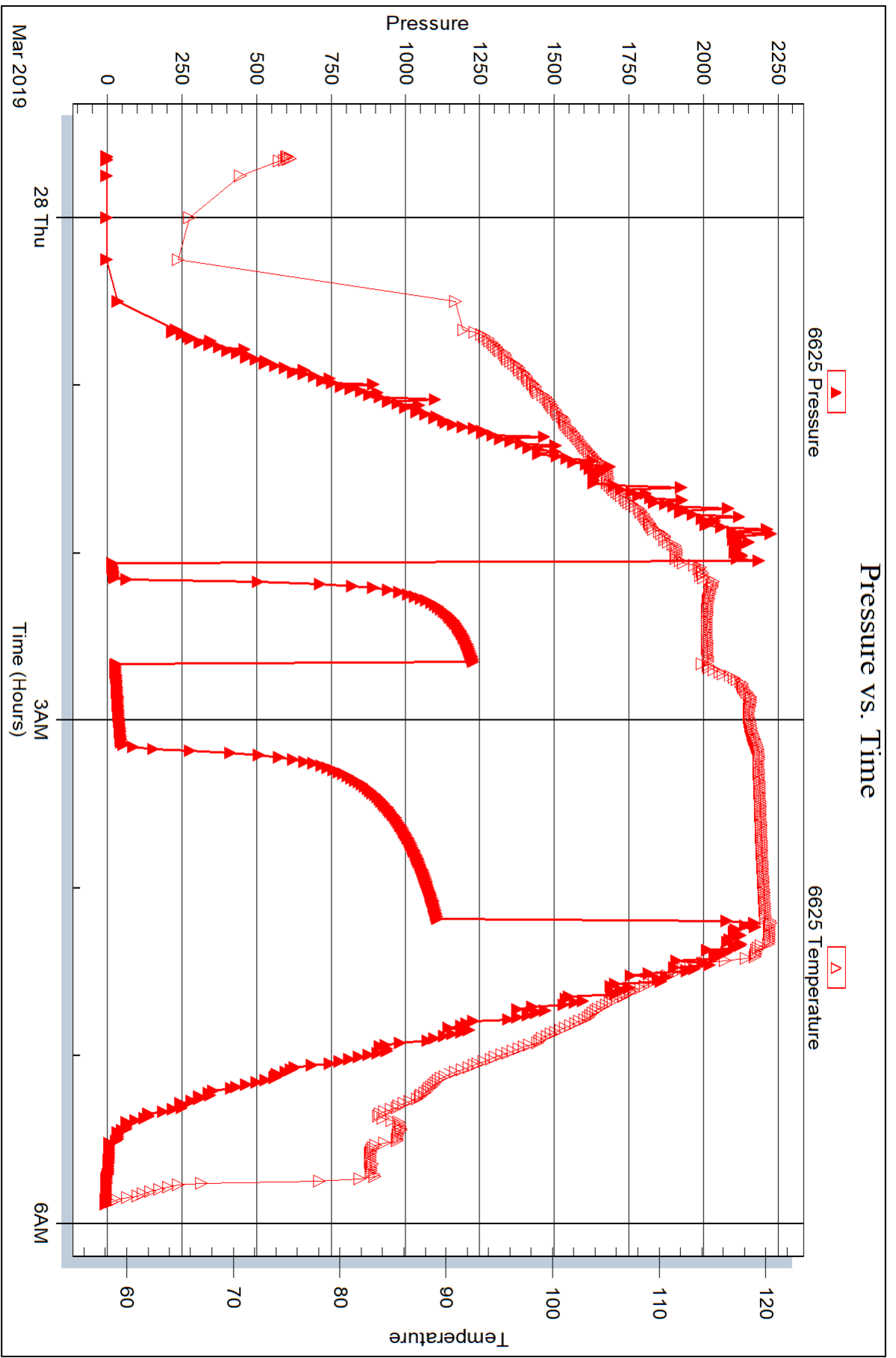
Serial #: 6625

Inside

Mull Drilling Company Inc

Bloom #2-3

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

ATTN: Phil Askey

### **Bloom #2-3**

### **3-11s-31w Gove,KS**

Start Date: 2019.03.29 @ 05:19:00

End Date: 2019.03.29 @ 10:41:45

Job Ticket #: 65354                      DST #: 3

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

Printed: 2019.04.02 @ 14:11:53



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Company Inc  
 1700 North Waterfront Pkwy Bldg 1200  
 Wichita KS 67206  
 ATTN: Phil Askey

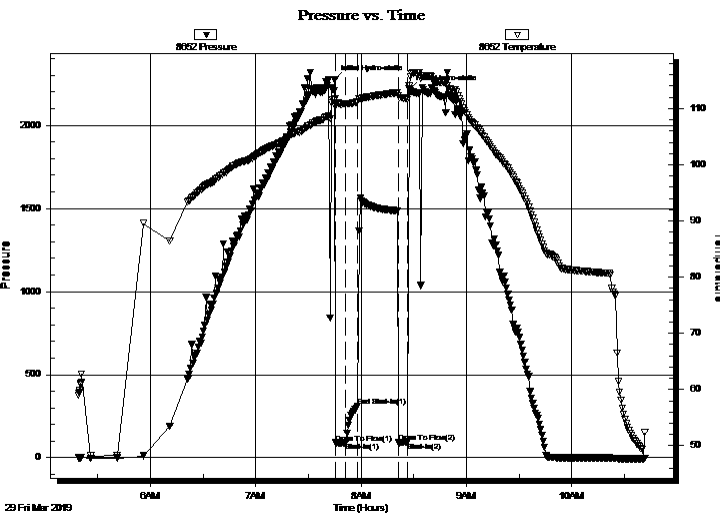
**3-11s-31w Gove,KS**  
**Bloom #2-3**  
 Job Ticket: 65354 **DST#: 3**  
 Test Start: 2019.03.29 @ 05:19:00

## GENERAL INFORMATION:

Formation: **Myric Station - Ft S**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:45:30  
 Time Test Ended: 10:41:45  
 Interval: **4455.00 ft (KB) To 4532.00 ft (KB) (TVD)**  
 Total Depth: 4532.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder/ Shaw n  
 Unit No: 83  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8652 Outside**  
 Press@RunDepth: 90.60 psig @ 4456.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.03.29 End Date: 2019.03.29 Last Calib.: 2019.03.29  
 Start Time: 05:19:05 End Time: 10:41:44 Time On Btm: 2019.03.29 @ 07:45:00  
 Time Off Btm: 2019.03.29 @ 08:27:15

**TEST COMMENT:** 5 - IF: 1/4" Blow at open, built slightly  
 30 - IS: No blow back  
 7 - FF: Surface blow, lost packer seat at 5 min. - lost 20' mud  
 reset tool - packer still not holding - pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2274.52	111.70	Initial Hydro-static
1	88.97	110.82	Open To Flow (1)
6	90.60	110.83	Shut-In(1)
13	309.98	111.18	End Shut-In(1)
37	91.09	112.28	Open To Flow (2)
42	95.96	111.63	Shut-In(2)
43	2216.80	114.00	Final Hydro-static

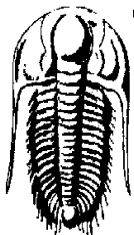
## Recovery

Length (ft)	Description	Volume (bbl)
280.00	Mud 100%	2.87

\* Recovery from multiple tests

## Gas Rates

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



TRILOBITE TESTING, INC.

# DRILL STEM TEST REPORT

Mull Drilling Company Inc

3-11s-31w Gove,KS

1700 North Waterfront Pkw y Bldg 1200  
Wichita KS 67206

Bloom #2-3

Job Ticket: 65354

DST#: 3

ATTN: Phil Askey

Test Start: 2019.03.29 @ 05:19:00

## GENERAL INFORMATION:

Formation: **Myric Station - Ft S**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:45:30

Time Test Ended: 10:41:45

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder/ Shaw n

Unit No: 83

Interval: **4455.00 ft (KB) To 4532.00 ft (KB) (TVD)**

Reference Elevations: 2999.00 ft (KB)

Total Depth: 4532.00 ft (KB) (TVD)

2994.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 4456.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.03.29

End Date: 2019.03.29

Last Calib.: 2019.03.29

Start Time: 05:19:05

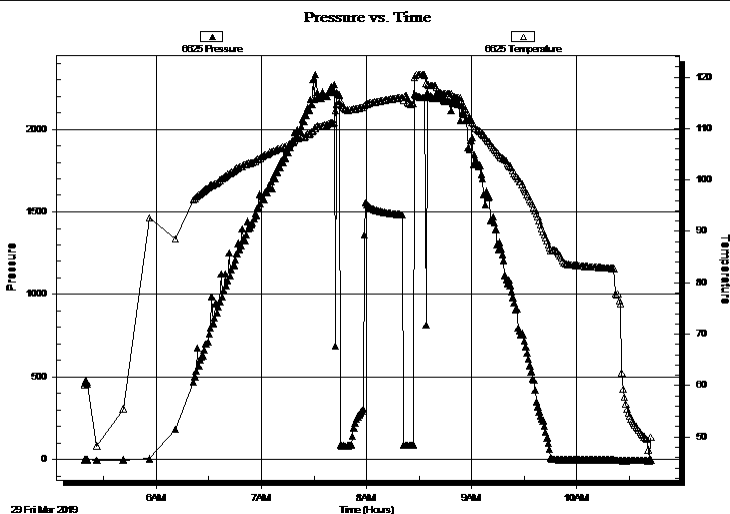
End Time: 10:42:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 - IF: 1/4" Blow at open, built slightly  
30 - IS: No blow back  
7 - FF: Surface blow, lost packer seat at 5 min. - lost 20' mud  
reset tool - packer still not holding - pulled tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
280.00	Mud 100%	2.87

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65354

**DST#: 3**

ATTN: Phil Askey

Test Start: 2019.03.29 @ 05:19:00

## Tool Information

Drill Pipe:	Length: 4330.00 ft	Diameter: 3.80 inches	Volume: 60.74 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 61.31 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4455.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.00 ft				
Tool Length:	98.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments: packer not holding at Initial open, lost 20' of mud  
reseat tool - packers held

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4435.00	
Shut In Tool	5.00			4440.00	
Hydraulic tool	5.00			4445.00	
Packer	5.00			4450.00	21.00 Bottom Of Top Packer
Packer	5.00			4455.00	
Stubb	1.00			4456.00	
Recorder	0.00	6625	Inside	4456.00	
Recorder	0.00	8652	Outside	4456.00	
Perforations	8.00			4464.00	
Blank Spacing	65.00			4529.00	
Bullnose	3.00			4532.00	77.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65354

**DST#: 3**

ATTN: Phil Askey

Test Start: 2019.03.29 @ 05:19:00

## 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
280.00	Mud 100%	2.871

Total Length: 280.00 ft      Total Volume: 2.871 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

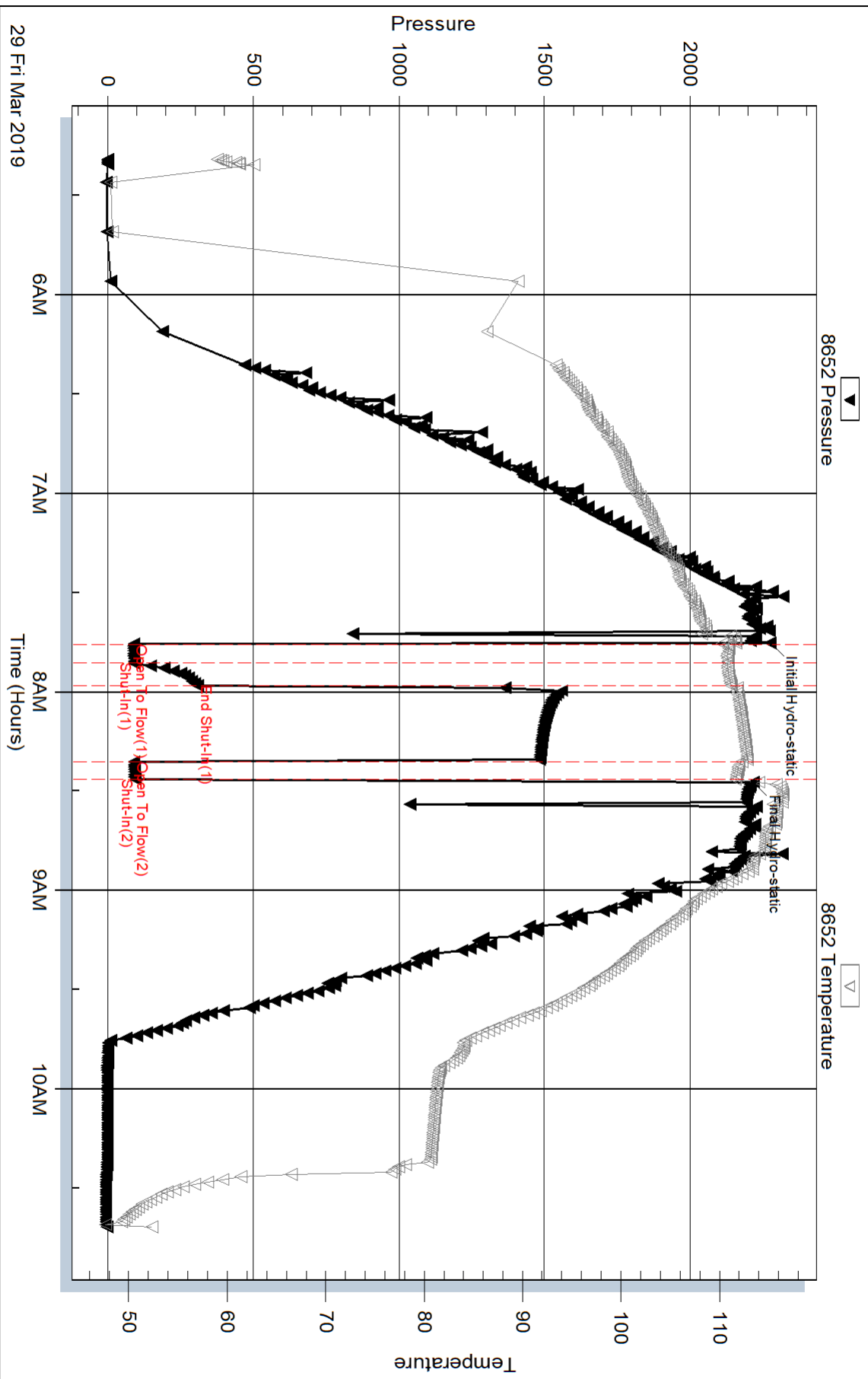
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



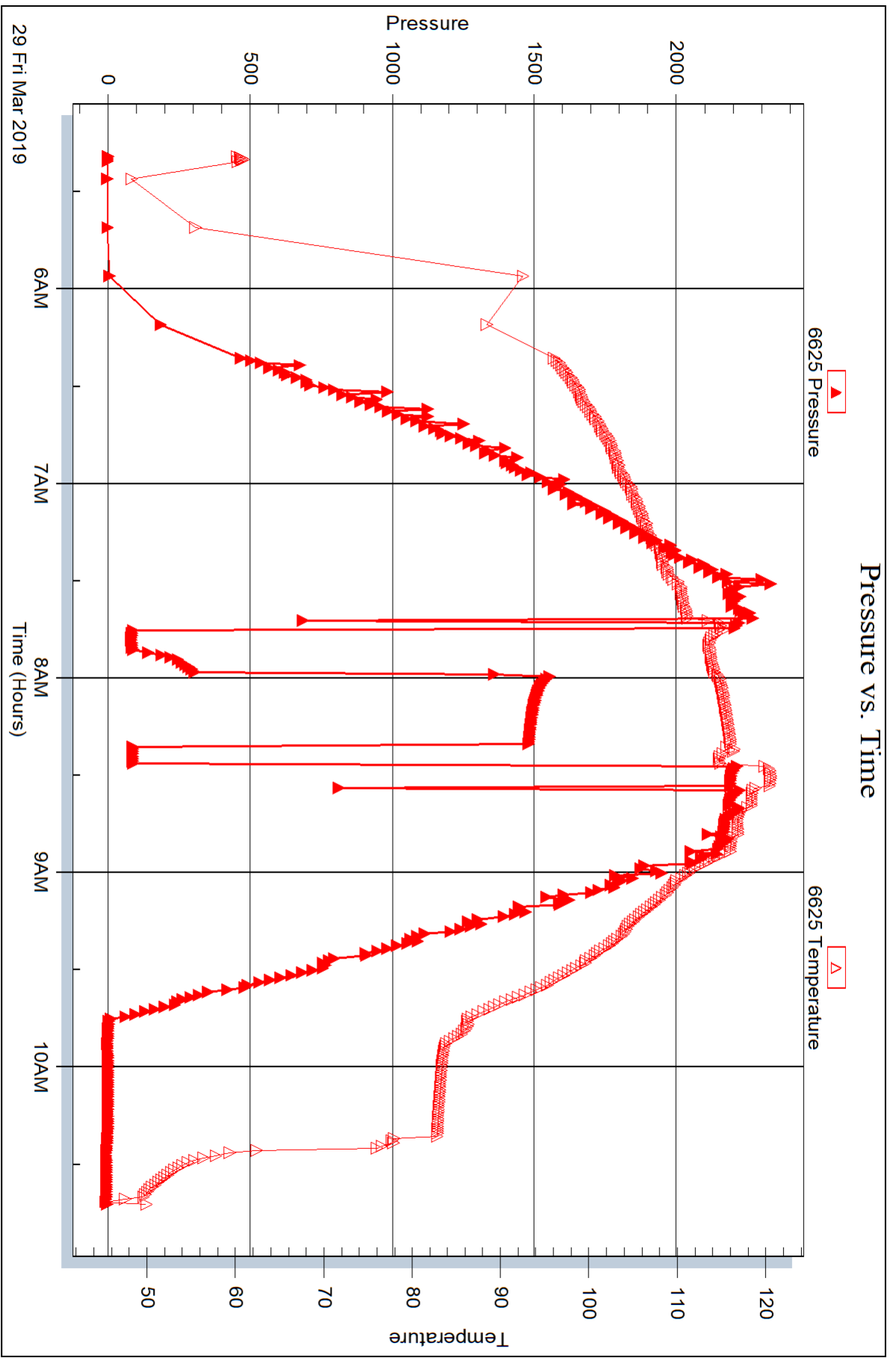
Serial #: 6625

Inside

Mull Drilling Company Inc

Bloom #2-3

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65354

Printed: 2019.04.02 @ 14:11:55



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company Inc**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

ATTN: Phil Askey

### **Bloom #2-3**

### **3-11s-31w Gove,KS**

Start Date: 2019.03.30 @ 02:42:00

End Date: 2019.03.30 @ 08:55:00

Job Ticket #: 65355                      DST #: 4

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

Printed: 2019.04.02 @ 14:11:04

Mull Drilling Company Inc  
3-11s-31w Gove,KS  
Bloom #2-3  
DST # 4  
Cherokee Sand  
2019.03.30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Company Inc  
 1700 North Waterfront Pkwy Bldg 1200  
 Wichita KS 67206  
 ATTN: Phil Askey

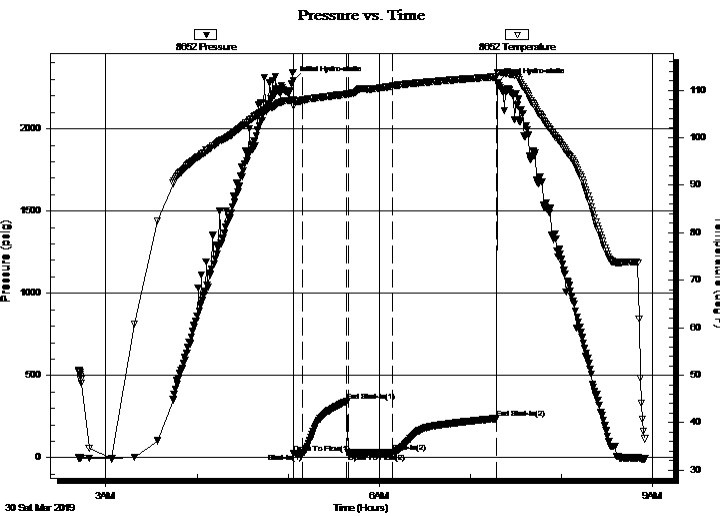
**3-11s-31w Gove,KS**  
**Bloom #2-3**  
 Job Ticket: 65355 **DST#: 4**  
 Test Start: 2019.03.30 @ 02:42:00

## GENERAL INFORMATION:

Formation: **Cherokee Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:03:45  
 Time Test Ended: 08:55:00  
 Interval: **4521.00 ft (KB) To 4640.00 ft (KB) (TVD)**  
 Total Depth: 4640.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: James Winder/ Shaw n  
 Unit No: 83  
 Reference Elevations: 2999.00 ft (KB)  
 2994.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8652 Outside**  
 Press@RunDepth: 30.81 psig @ 4522.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.03.30 End Date: 2019.03.30 Last Calib.: 2019.03.30  
 Start Time: 02:42:05 End Time: 08:54:59 Time On Btm: 2019.03.30 @ 05:03:30  
 Time Off Btm: 2019.03.30 @ 07:18:00

**TEST COMMENT:** 5 IF 1/4" blow at open built to 1/2"  
 30 ISI no blow back  
 30 FF no blow  
 60 FSI no blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2291.68	108.04	Initial Hydro-static
1	26.37	106.71	Open To Flow (1)
6	26.06	107.80	Shut-In(1)
36	344.68	109.13	End Shut-In(1)
36	29.98	109.14	Open To Flow (2)
66	30.81	110.83	Shut-In(2)
134	238.82	112.79	End Shut-In(2)
135	2281.99	113.58	Final Hydro-static

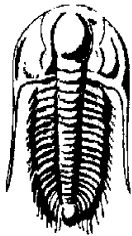
## Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkw y Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65355

**DST#: 4**

ATTN: Phil Askey

Test Start: 2019.03.30 @ 02:42:00

### GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:03:45

Time Test Ended: 08:55:00

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder/ Shaw n

Unit No: 83

**Interval: 4521.00 ft (KB) To 4640.00 ft (KB) (TVD)**

Total Depth: 4640.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2999.00 ft (KB)

2994.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 6625**

Inside

Press@RunDepth: psig @ 4522.00 ft (KB)

Start Date: 2019.03.30

End Date:

2019.03.30

Start Time: 02:42:05

End Time:

08:53:44

Capacity: 8000.00 psig

Last Calib.:

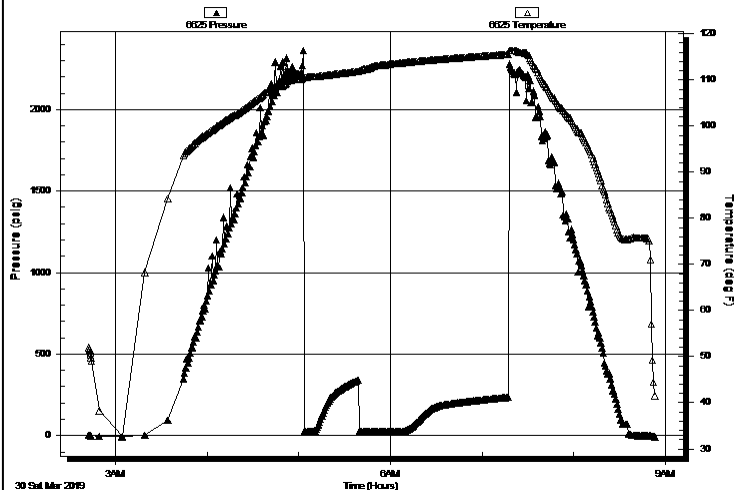
2019.03.30

Time On Btm:

Time Off Btm:

TEST COMMENT: 5 IF 1/4" blow at open built to 1/2"  
30 ISI no blow back  
30 FF no blow  
60 FSI no blow

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% mud	0.07

\* 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 Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65355

**DST#: 4**

ATTN: Phil Askey

Test Start: 2019.03.30 @ 02:42:00

## Tool Information

Drill Pipe:	Length: 4393.00 ft	Diameter: 3.80 inches	Volume: 61.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 116.00 ft	Diameter: 2.25 inches	Volume: 0.57 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 62.19 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4521.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	119.00 ft			
Tool Length:	148.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4493.00	
Shut In Tool	5.00			4498.00	
Hydraulic tool	5.00			4503.00	
Jars	5.00			4508.00	
Safety Joint	3.00			4511.00	
Packer	5.00			4516.00	29.00 Bottom Of Top Packer
Packer	5.00			4521.00	
Packer - Shale	0.00			4521.00	
Stubb	1.00			4522.00	
Recorder	0.00	6625	Inside	4522.00	
Recorder	0.00	8652	Outside	4522.00	
Perforations	19.00			4541.00	
Blank Spacing	96.00			4637.00	
Bullnose	3.00			4640.00	119.00 Bottom Packers & Anchor

**Total Tool Length: 148.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Company Inc

**3-11s-31w Gove,KS**

1700 North Waterfront Pkwy Bldg 1200  
Wichita KS 67206

**Bloom #2-3**

Job Ticket: 65355

**DST#: 4**

ATTN: Phil Askey

Test Start: 2019.03.30 @ 02:42:00

## 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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100% mud	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

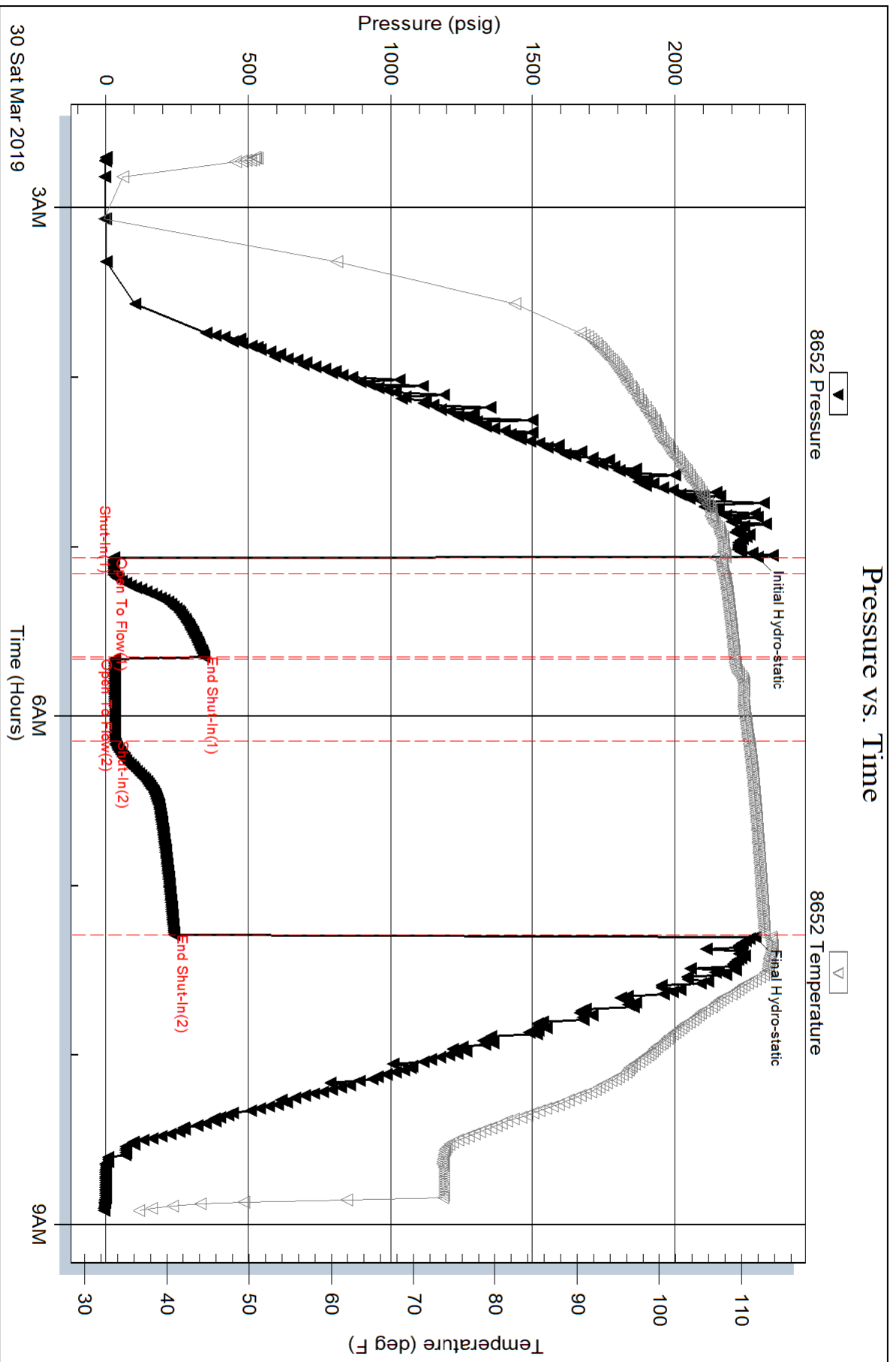
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time



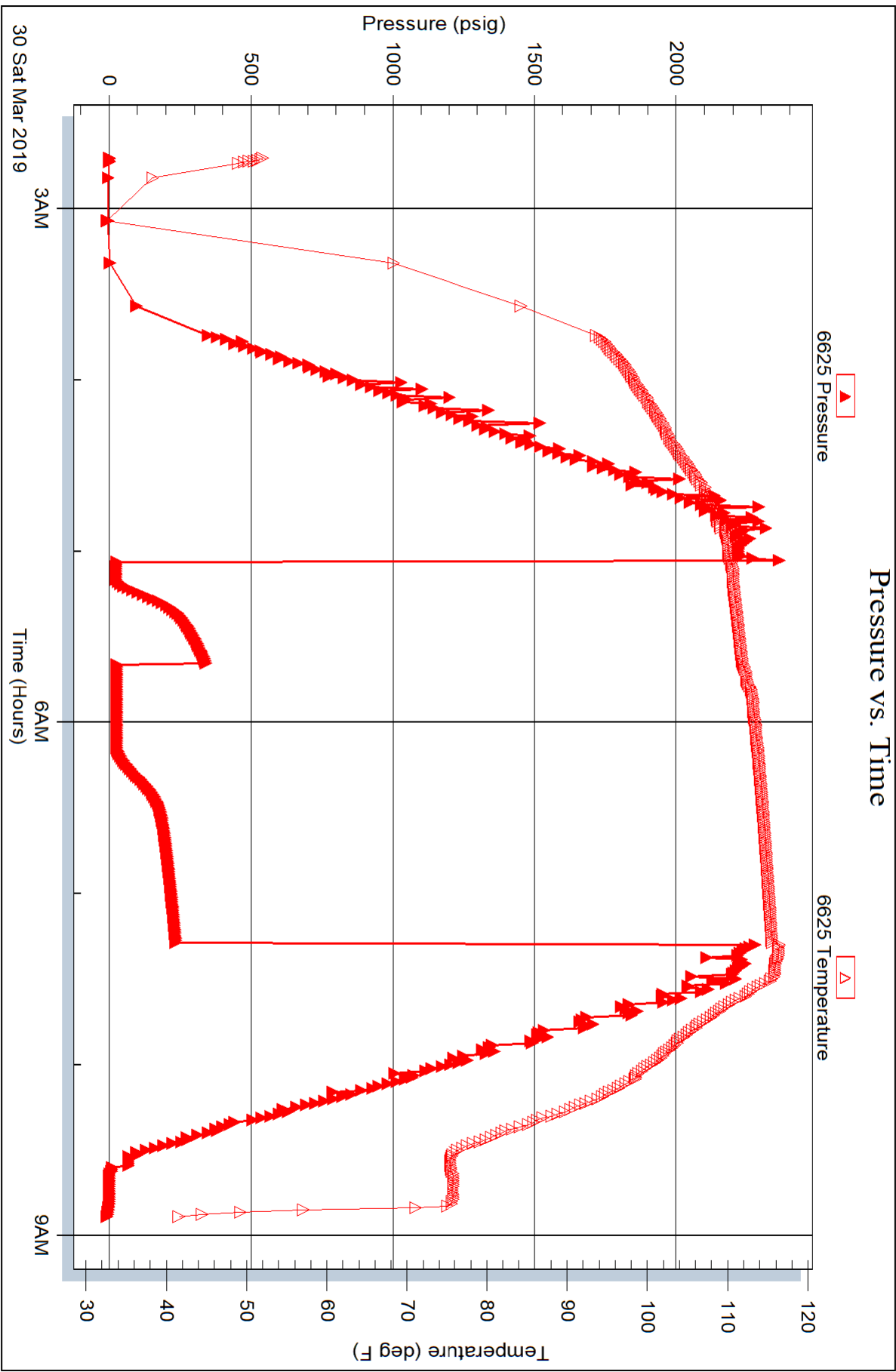
Serial #: 6625

Inside

Mull Drilling Company Inc

Bloom #2-3

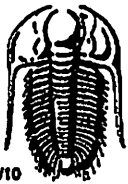
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 65355

Printed: 2019.04.02 @ 14:11:05



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65352

Well Name & No. Bloom #2-3 Test No. 1 Date 3-27-19  
 Company Mull Drilling Company Inc Elevation 2999 KB 2994 GL  
 Address 1700 N Water front Parkway Bldg 1200 Wichita KS 67206  
 Co. Rep / Geo. Phil Asken Rig WW8  
 Location: Sec. 3 Twp 11S Rge. 3/W Co. Gove State KS

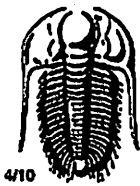
Interval Tested ~~4200~~ - 4300 Zone Tested LKR I-K  
 Anchor Length ~~85~~ 91 Drill Pipe Run 4079 Mud Wt. 9.4  
 Top Packer Depth ~~4200~~ 4204 Drill Collars Run 116 Vis 60  
 Bottom Packer Depth ~~4200~~ 4209 Wt. Pipe Run - WL 8.8  
 Total Depth 4300 Chlorides 2000 ppm System LCM 1  
 Blow Description IF 1/4" Blow at open built slightly  
ISI No Blow back  
FF No Blow  
FSI No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/trace of oil</u>	<u>Trace</u>		<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 111 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2111  Test 1300 T-On Location 5:35  
 (B) First Initial Flow 21  Jars \_\_\_\_\_ T-Started 8:07  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 10:43  
 (D) Initial Shut-In 632  Circ Sub \_\_\_\_\_ T-Pulled 12:51 PM  
 (E) Second Initial Flow 20  Hourly Standby \_\_\_\_\_ T-Out 2:30 PM  
 (F) Second Final Flow 21  Mileage 108 RT<sup>108</sup> Comments Told OR  
 (G) Final Shut-In 922  Sampler \_\_\_\_\_ at 6:AM  
 (H) Final Hydrostatic 2071  Straddle \_\_\_\_\_ Hotel  
 EM Tool \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 5  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1408 Sub Total 0  
 Total 1408 MP/DST Disc't \_\_\_\_\_

Approved By L Our Representative Steve Nicks / Shaun Wheeler  
 TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65353

Well Name & No. Bloom 2-3 Test No. 2 Date 3-28-19  
 Company Mull Drilling Company Inc Elevation 2999 KB 2994 GL  
 Address 1700 N Waterfront Pkwy BLDG 1200 Wichita KS 67206  
 Co. Rep / Geo. Phil Askey Rig WW8  
 Location: Sec. 3 Twp 14S Rge. 31W Co. Gore State KS

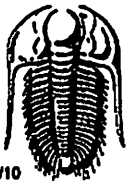
Interval Tested 4325-4345 Zone Tested Pleasanton  
 Anchor Length 20 Drill Pipe Run 4205 Mud Wt. 9.3  
 Top Packer Depth 4320 Drill Collars Run 116 Vis 54  
 Bottom Packer Depth 4325 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 4345 Chlorides 2000 ppm System LCM 1  
 Blow Description IF Blow built to 1"  
ISI No blow back  
FF Blow built to 2"  
FSI No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>Mud Cut Water</u>		<u>73</u>	<u>27</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75 BHT 117 Gravity \_\_\_\_\_ API RW 320 @ 52.6° F Chlorides 32000 ppm  
 (A) Initial Hydrostatic 2194  Test 1300 T-On Location 10:50 PM 3/27  
 (B) First Initial Flow 20  Jars \_\_\_\_\_ T-Started 11:38 PM  
 (C) First Final Flow 28  Safety Joint \_\_\_\_\_ T-Open 2:03 AM  
 (D) Initial Shut-In 1233  Circ Sub \_\_\_\_\_ T-Pulled 4:11  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 5:50 3/28  
 (F) Second Final Flow 51  Mileage 108 RT 108 Comments \_\_\_\_\_  
 (G) Final Shut-In 1110  Sampler \_\_\_\_\_ Hotel  
 (H) Final Hydrostatic 2137  Straddle \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 5  Day Standby \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Accessibility \_\_\_\_\_ Total 1408  
 Final Flow 30 Sub Total 1408 MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60

Approved By Phil Askey Our Representative James Winkler Sherwin-Williams

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65354

Well Name & No. Bloom 2-3 Test No. 3 Date 3-29-18  
 Company Mull Drilling Company Inc Elevation 2999 KB 2994 GL  
 Address 1700 N Waterfront Pkwy BLDG 1200 Wichita KS  
 Co. Rep / Geo. Phil Asken Rig LW8  
 Location: Sec. 3 Twp H3 Rge. 31W Co. Gore State KS

Interval Tested 4455-4532 Zone Tested Myric Station & Ft Scott  
 Anchor Length 77 Drill Pipe Run 4330 Mud Wt. 9.3  
 Top Packer Depth 4450 Drill Collars Run 116 Vis 59  
 Bottom Packer Depth 4455 Wt. Pipe Run - WL 8.8 7.2  
 Total Depth 4532 Chlorides 2000 ppm System 3300 LCM 1  
 Blow Description IF: 1/4" Blow at open, built slightly  
ISI: No blowback

FF: Surface blow, lost packer seat at 5 min. - lost 20' mud  
Tried to reset, packers not holding - pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>280</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 280 BHT 112 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2275  Test 1050 T-On Location 4:05  
 (B) First Initial Flow 89  Jars \_\_\_\_\_ T-Started 5:19  
 (C) First Final Flow 91  Safety Joint \_\_\_\_\_ T-Open 7:45  
 (D) Initial Shut-In at 7 min 310  Circ Sub \_\_\_\_\_ T-Pulled 8:27  
 (E) Second Initial Flow 91  Hourly Standby \_\_\_\_\_ T-Out 10:35  
 (F) Second Final Flow 96  Mileage 108RT 108 Comments packer not holding  
 (G) Final Shut-In 3  Sampler \_\_\_\_\_ at Initial open, lost 20'  
 (H) Final Hydrostatic 2217  Straddle \_\_\_\_\_ mud - reset and held  
 Shale Packer \_\_\_\_\_  EM Tool Hotel  
 Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Ruined Packer 320  
 Day Standby \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Accessibility \_\_\_\_\_ Sub Total 320  
 Sub Total 1158 Total 1478

Initial Open 5  
 Initial Shut-In 30  
 Final Flow 05  
 Final Shut-In -  
 Approved By Phil Asken Our Representative James W. Schuchberger  
 MP/DST Disc't \_\_\_\_\_

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 65355

Well Name & No. Bloom #2-3 Test No. 4 Date 3-30-19  
 Company Mull Drilling Co. Inc. Elevation 2999 KB 2994 GL  
 Address 1700 N Waterfront PKWY BLDG 1200 Wichita, KS 67206  
 Co. Rep / Geo. Phil Askey Rig WW #8  
 Location: Sec. 3 Twp 11s Rge. 31w Co. Gove State KS

Interval Tested 4521 - 4640 Zone Tested Cherokee Sand  
 Anchor Length 119 Drill Pipe Run 4393 Mud Wt. 9.3  
 Top Packer Depth 4516 Drill Collars Run 116 Vls 59  
 Bottom Packer Depth 4521 (shale) Wt. Pipe Run - WL 7.2  
 Total Depth 4640 Chlorides 3300 ppm System LCM 1  
 Blow Description IF: 1/4" Blow at open, built to 1/2"  
ISI: No blowback  
FF: No blow  
FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 113 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

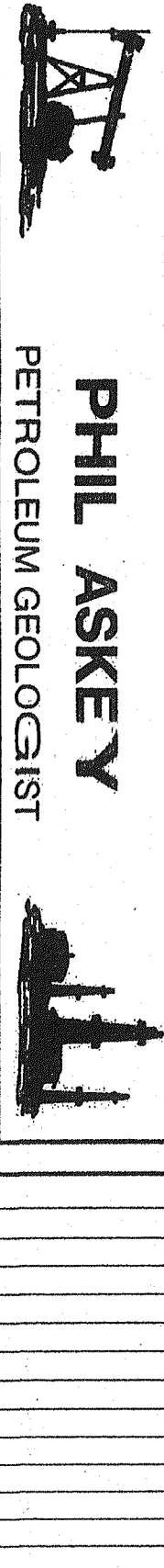
(A) Initial Hydrostatic 2292  Test 1300 T-On Location 1:45  
 (B) First Initial Flow 26  Jars 250 T-Started 2:42  
 (C) First Final Flow 26  Safety Joint 75 T-Open 5:03  
 (D) Initial Shut-In 345  Circ Sub \_\_\_\_\_ T-Pulled 7:17  
 (E) Second Initial Flow 30  Hourly Standby \_\_\_\_\_ T-Out 9:00  
 (F) Second Final Flow 31  Mileage 108 RTx2 <sup>108+108</sup> Comments Hotel  
 (G) Final Shut-In 239  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2282  Straddle \_\_\_\_\_  
 Shale Packer 250  EM Tool \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2091  
 Sub Total 2091 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative James V. ... Stacy L. ...

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# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mull Drilling Company, Inc.

LEASE Bloom #2-3

FIELD W/1/1/1

LOCATION 917' FNL E 1/2 Sec 3 Twp 11 S Rng 31 W

COUNTY GOVE STATE Kansas

CONTRACTOR Mull Drilling Co.

RID 4760 LTD 4762

MUD UP 3600 TYPE MUD Oil Sol. G. Sol. Mud

SAMPLES EXAMINED FROM 3800 TO 4700

DRILLING TIME KEPT FROM 2500-2600 TO 3800

GEOLOGICAL SUPERVISION FROM 3800 TO 4700

GEOLOGIST ON WELL Phil Askey, G.G.

FORMATION TOPS

ANHYDRITE LOG

SAMPLES

REFERENCE WELL

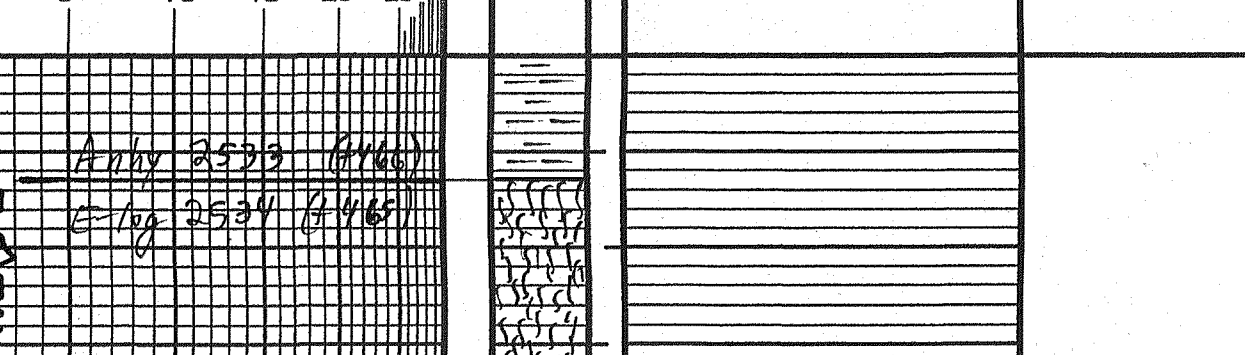
REMARKS

LOG 7708

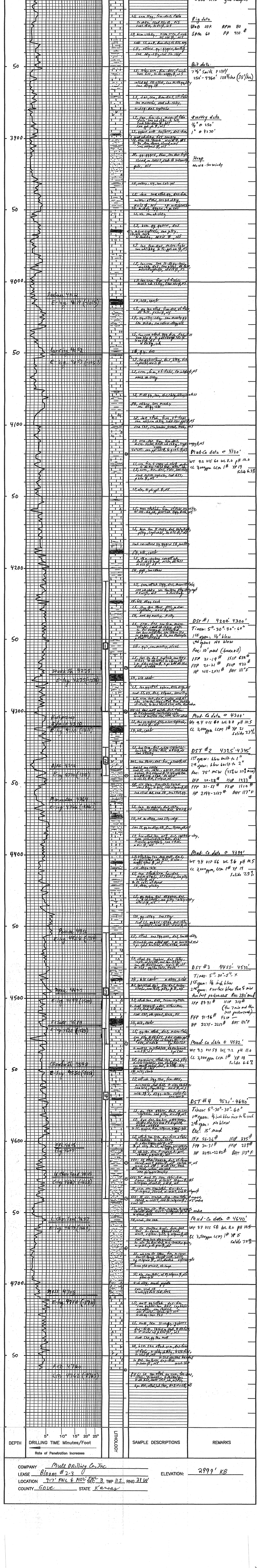
DATE 7-20-50

REMARKS: The Mull Drilling Co., The Bloom #2-3, had a relatively similar structure to the Mull Drilling Bloom #1-3, located to the southwest from the same Penn Line. The main target pay, Cherokee Sand, developed a very thick channel sand of approx 70' but did not contain oiliferous shales. All sample shales noted on the geo report were 100% with non commercial results. After all logs were examined, it was decided to plug and abandon this well.

## LEGEND



## SCALE " = 100'



COMPANY Mull Drilling Co., Inc. LEASE Bloom #2-3 ELEVATION: 2999' KB  
LOCATION 917' FNL E 1/2 Sec 3 Twp 11 S Rng 31 W  
COUNTY GOVE STATE Kansas