



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1131787
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1131787

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Tillitson 1-7
Doc ID	1131787

All Electric Logs Run

CDL/CNL/PE
DIL
MEL
SONIC

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Tillitson 1-7
Doc ID	1131787

Tops

Name	Top	Datum
Anhydrite	1793	+ 669
B/Anhydrite	1825	+ 637
Heebner	3814	- 1352
Lansing	3853	- 1391
B/KC	4140	- 1678
Pawnee	4266	- 1804
Ft. Scott	4346	- 1884
Cherokee Shale	4374	- 1912
Mississippian	4436	- 1974

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

April 15, 2013

Mark Shreve
Mull Drilling Company, Inc.
1700 N WATERFRONT PKWY
BLDG 1200
WICHITA, KS 67206

Re: ACO1
API 15-135-25519-00-00
Tillitson 1-7
NE/4 Sec.07-17S-24W
Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Mark Shreve



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N. Waterfront Pkwy
Building 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Tillitson #1-7

7-17s-24w-Ness,KS

Start Date: 2013.01.06 @ 22:50:12

End Date: 2013.01.07 @ 07:08:27

Job Ticket #: 51708 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.01.10 @ 10:37:40



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

7-17s-24w-Ness, KS

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

Tillitson #1-7

Job Ticket: 51708

DST#: 1

Test Start: 2013.01.06 @ 22:50:12

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:32:12

Time Test Ended: 07:08:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 4320.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2462.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

2457.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366 Inside

Press @ Run Depth: 46.00 psig @ 4357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.06

End Date:

2013.01.07

Last Calib.: 2013.01.07

Start Time: 22:50:14

End Time:

07:08:27

Time On Btm: 2013.01.07 @ 01:31:42

Time Off Btm: 2013.01.07 @ 05:15:27

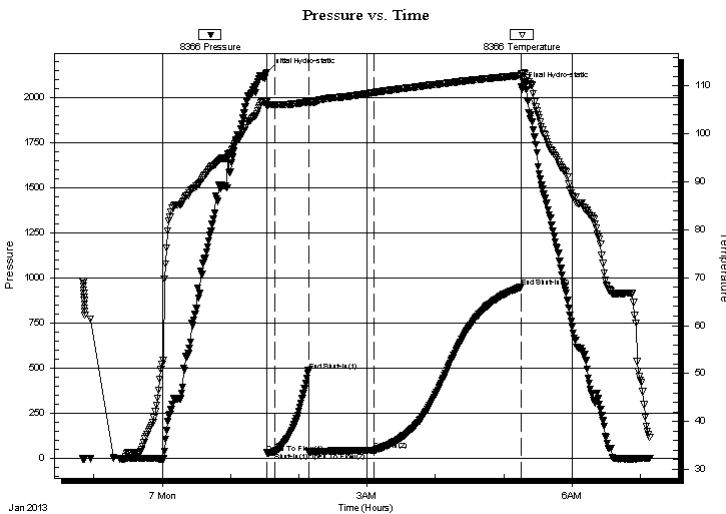
TEST COMMENT: IFP-Weak Blow , Built to 1"

ISI-Dead

FFP-Weak Blow , Built to 3-1/2"

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2139.11	106.58	Initial Hydro-static
1	31.81	105.80	Open To Flow (1)
7	36.45	106.04	Shut-In(1)
37	486.79	106.68	End Shut-In(1)
38	35.90	106.55	Open To Flow (2)
95	46.00	108.63	Shut-In(2)
224	950.55	112.16	End Shut-In(2)
224	2060.88	112.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	OCM-15%O-85%M	0.22

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

7-17s-24w-Ness, KS

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

Tillitson #1-7

Job Ticket: 51708

DST#: 1

Test Start: 2013.01.06 @ 22:50:12

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:32:12

Time Test Ended: 07:08:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: 4320.00 ft (KB) To 4380.00 ft (KB) (TVD)

Reference Elevations: 2462.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

2457.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press @ Run Depth: psig @ 4357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.06

End Date:

2013.01.07

Last Calib.:

2013.01.07

Start Time: 22:49:59

End Time:

07:08:42

Time On Btm:

Time Off Btm:

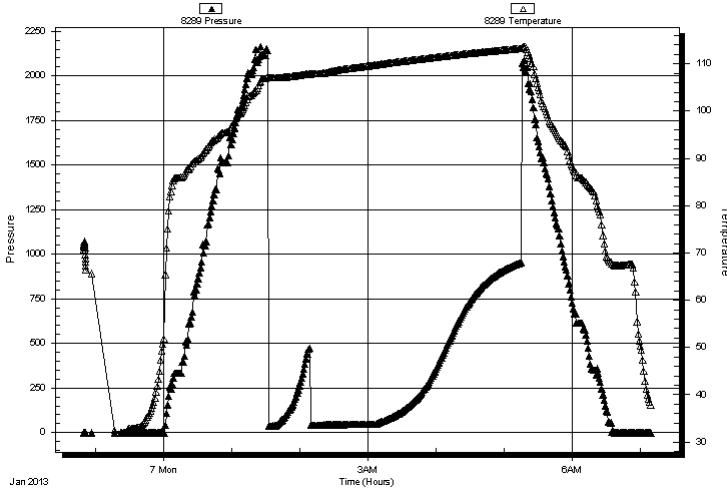
TEST COMMENT: IFP-Weak Blow , Built to 1"

ISI-Dead

FFP-Weak Blow , Built to 3-1/2"

FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
45.00	OCM-15%O-85%M	0.22

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mull Drilling Company, Inc.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51708

DST#: 1

Test Start: 2013.01.06 @ 22:50:12

Tool Information

Drill Pipe:	Length: 4173.00 ft	Diameter: 3.80 inches	Volume: 58.54 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 59.15 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	4320.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	88.00 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			4293.00	
Shut In Tool	5.00			4298.00	
Hydraulic tool	5.00			4303.00	
Jars	5.00			4308.00	
Safety Joint	2.00			4310.00	
Packer	5.00			4315.00	28.00 Bottom Of Top Packer
Packer	5.00			4320.00	
Stubb	1.00			4321.00	
Perforations	3.00			4324.00	
Change Over Sub	1.00			4325.00	
Blank Spacing	31.00			4356.00	
Change Over Sub	1.00			4357.00	
Recorder	0.00	8366	Inside	4357.00	
Recorder	0.00	8289	Outside	4357.00	
Perforations	20.00			4377.00	
Bullnose	3.00			4380.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51708

DST#: 1

Test Start: 2013.01.06 @ 22:50:12

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 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
45.00	OCM-15%O-85%M	0.221

Total Length: 45.00 ft Total Volume: 0.221 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

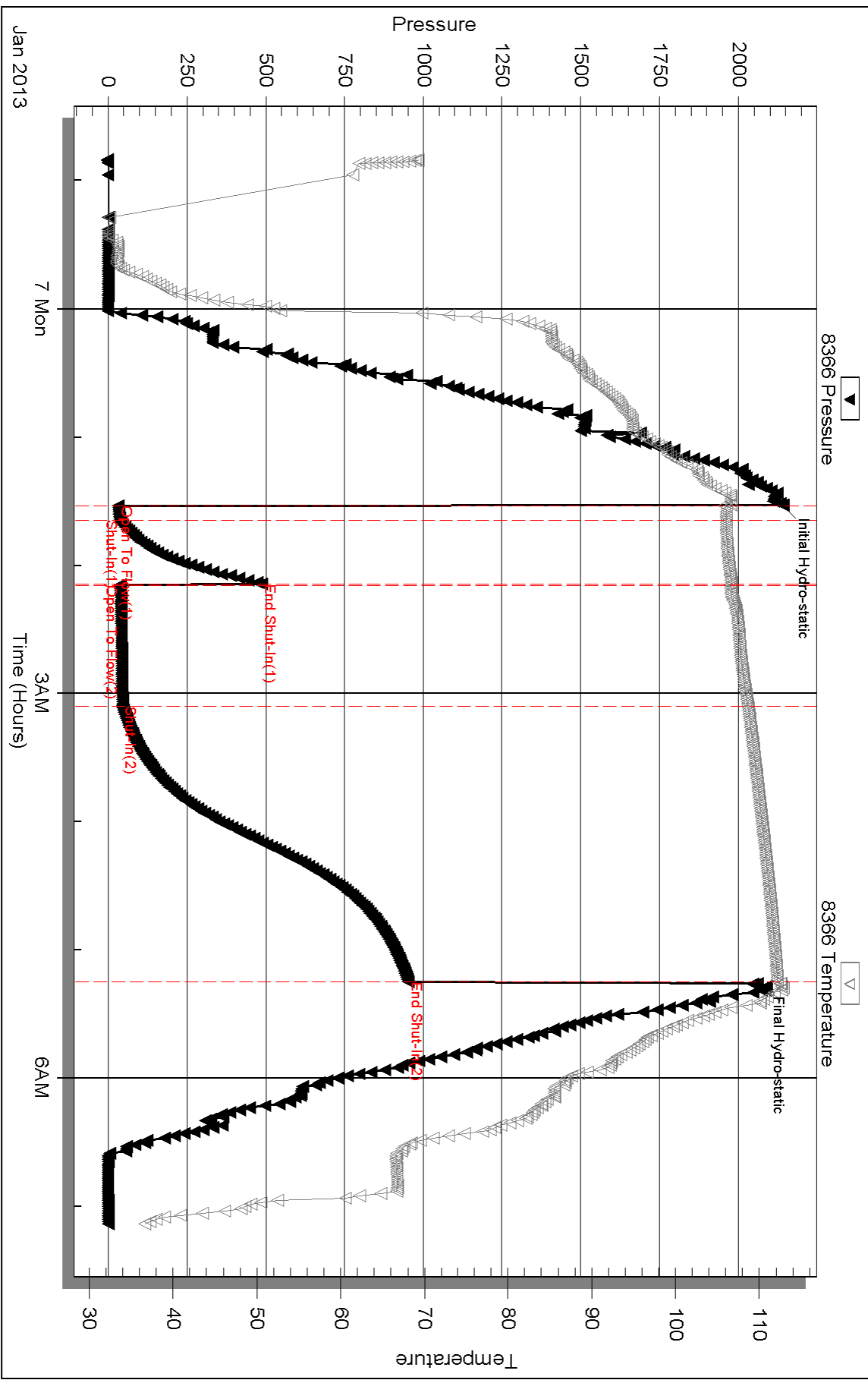
Serial #:

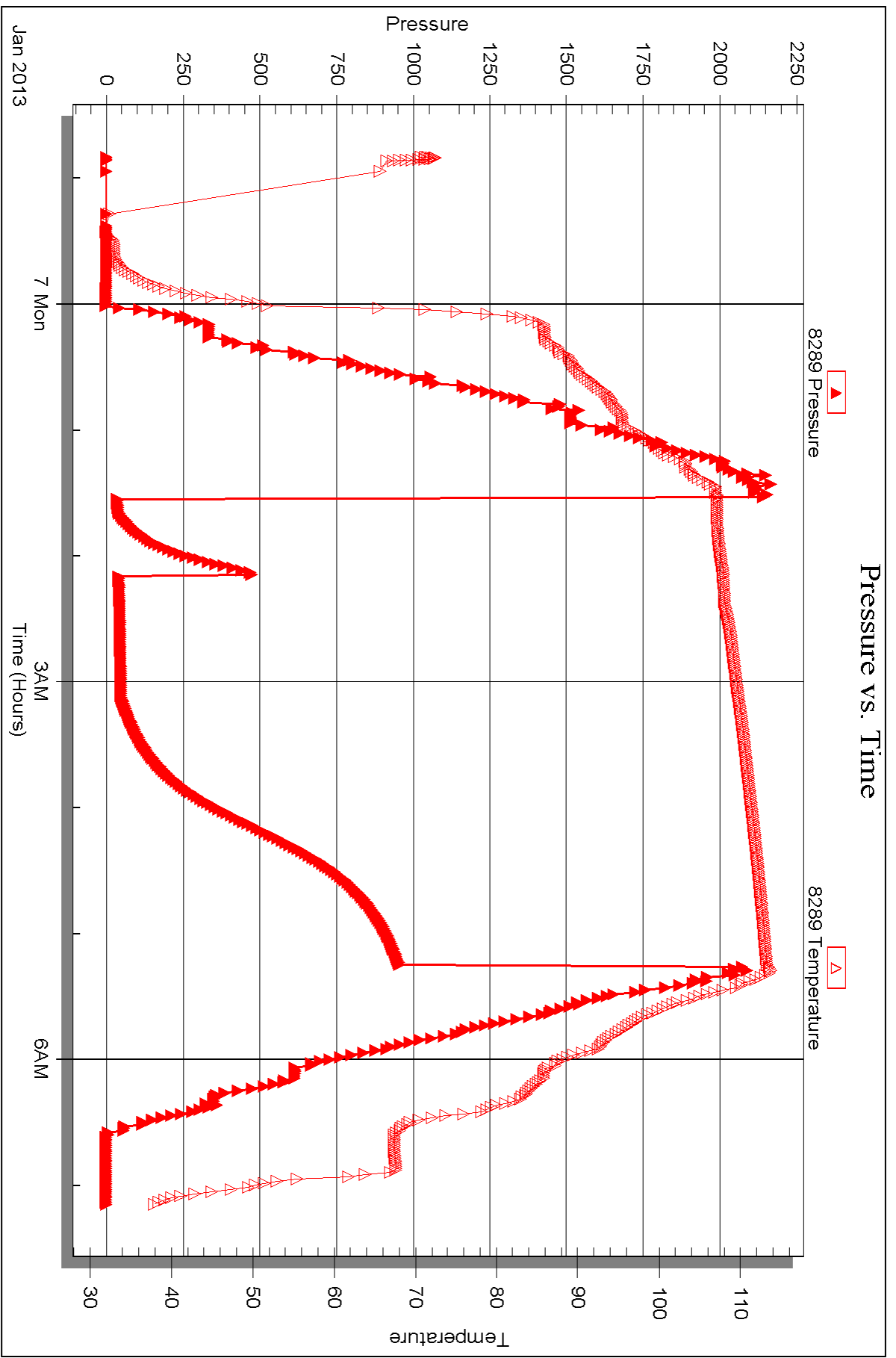
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N. Waterfront Pkwy
Building 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Tillitson #1-7

7-17s-24w-Ness,KS

Start Date: 2013.01.07 @ 15:23:42

End Date: 2013.01.07 @ 23:31:12

Job Ticket #: 51709 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.01.10 @ 10:36:49



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

7-17s-24w-Ness, KS

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

Tillitson #1-7

Job Ticket: 51709

DST#: 2

Test Start: 2013.01.07 @ 15:23:42

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:42:27

Time Test Ended: 23:31:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4360.00 ft (KB) To 4435.00 ft (KB) (TVD)

Reference Elevations: 2462.00 ft (KB)

Total Depth: 4435.00 ft (KB) (TVD)

2457.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 62.99 psig @ 4427.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.07

End Date:

2013.01.07

Last Calib.:

2013.01.07

Start Time: 15:23:44

End Time:

23:31:12

Time On Btm:

2013.01.07 @ 17:41:57

Time Off Btm:

2013.01.07 @ 21:19:27

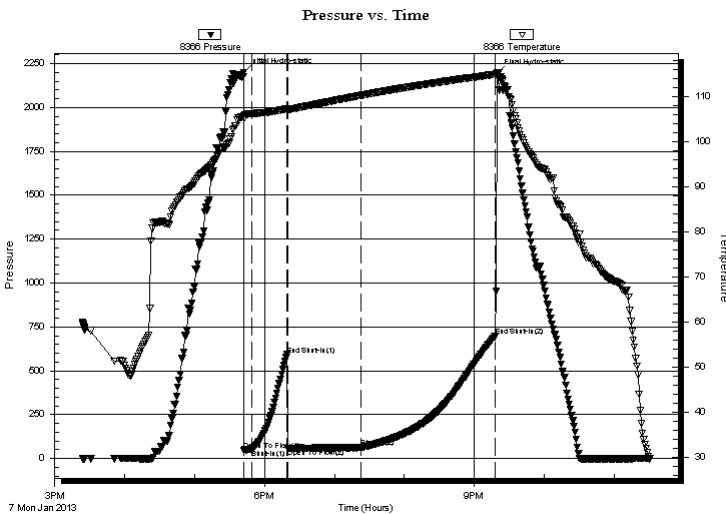
TEST COMMENT: IFP-Weak Blow , Built to 1/4"

ISI-Dead

FFP-Weak Intermittant Blow , Built to 1/2"

FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2199.67	105.76	Initial Hydro-static
1	47.87	105.14	Open To Flow (1)
7	52.93	106.17	Shut-In(1)
37	590.96	107.24	End Shut-In(1)
38	56.59	107.02	Open To Flow (2)
101	62.99	110.20	Shut-In(2)
216	696.39	114.84	End Shut-In(2)
218	2190.46	115.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM-25%O-75%M	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.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51709

DST#: 2

Test Start: 2013.01.07 @ 15:23:42

Tool Information

Drill Pipe:	Length: 4235.00 ft	Diameter: 3.80 inches	Volume: 59.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 60.02 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4360.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	103.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			4333.00	
Shut In Tool	5.00			4338.00	
Hydraulic tool	5.00			4343.00	
Jars	5.00			4348.00	
Safety Joint	2.00			4350.00	
Packer	5.00			4355.00	28.00 Bottom Of Top Packer
Packer	5.00			4360.00	
Stubb	1.00			4361.00	
Perforations	1.00			4362.00	
Change Over Sub	1.00			4363.00	
Blank Spacing	63.00			4426.00	
Change Over Sub	1.00			4427.00	
Recorder	0.00	8366	Inside	4427.00	
Recorder	0.00	8289	Outside	4427.00	
Perforations	5.00			4432.00	
Bullnose	3.00			4435.00	75.00 Bottom Packers & Anchor
Total Tool Length:	103.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51709

DST#: 2

Test Start: 2013.01.07 @ 15:23:42

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	OCM-25%O-75%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

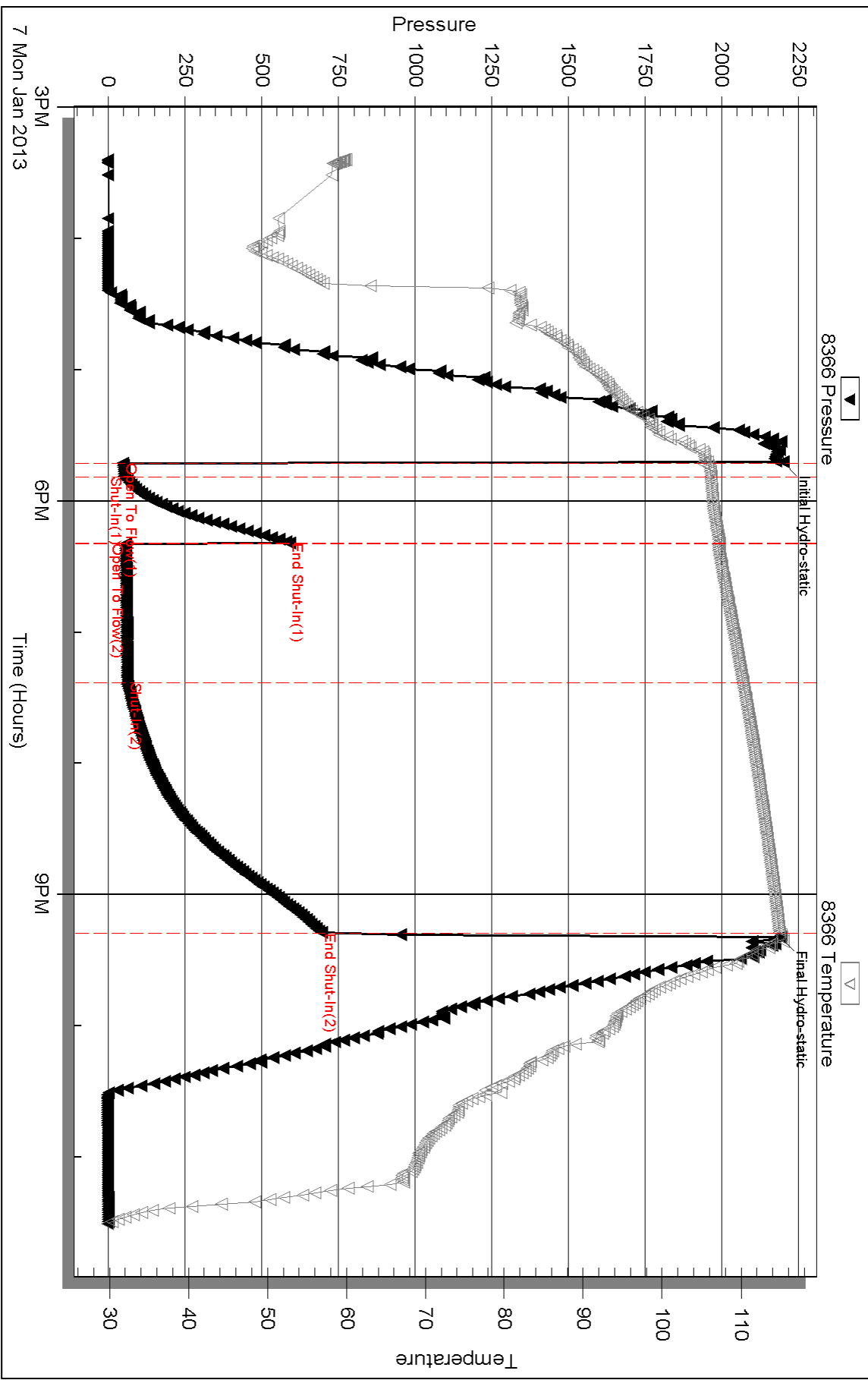
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

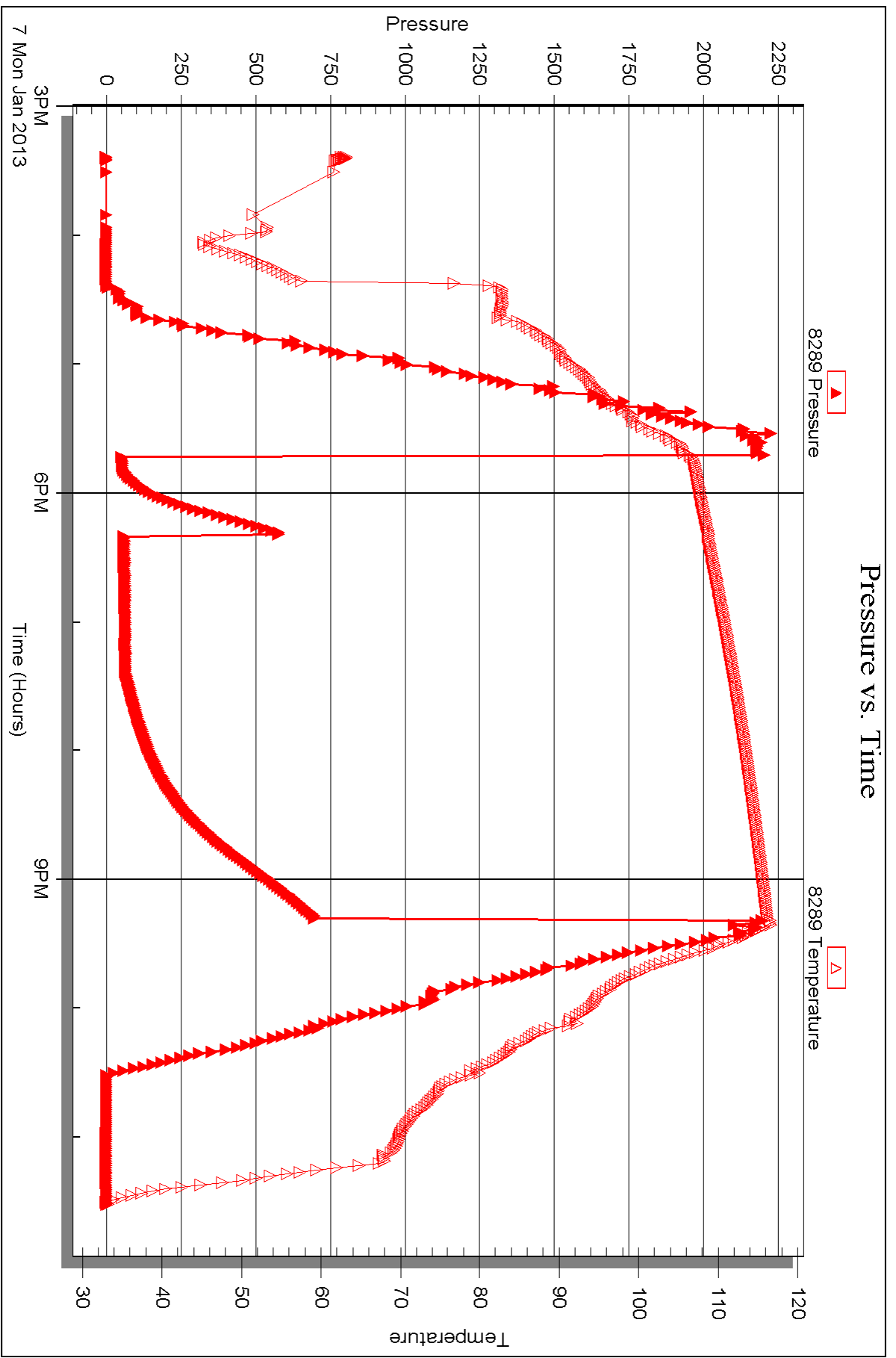


Serial #: 8289

Outside Mull Drilling Company, Inc.

Tillison #1-7

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51709

Printed: 2013.01.10 @ 10:36:53



DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N. Waterfront Pkwy
Building 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Tillitson #1-7

7-17s-24w-Ness,KS

Start Date: 2013.01.08 @ 05:45:11

End Date: 2013.01.08 @ 14:19:26

Job Ticket #: 51710 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.01.10 @ 10:35:58

Mull Drilling Company, Inc.
7-17s-24w-Ness,KS
Tillitson #1-7
DST # 3
Mississippi
2013.01.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

7-17s-24w-Ness, KS

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

Tillitson #1-7

Job Ticket: 51710

DST#: 3

Test Start: 2013.01.08 @ 05:45:11

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 08:27:56 Tester: Jason McLemore
 Time Test Ended: 14:19:26 Unit No: 54
 Interval: **4391.00 ft (KB) To 4451.00 ft (KB) (TVD)** Reference Elevations: 2462.00 ft (KB)
 Total Depth: 4451.00 ft (KB) (TVD) 2457.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

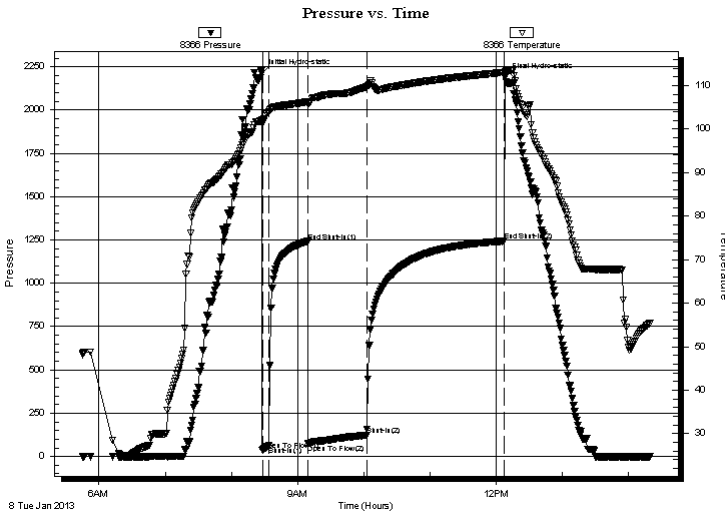
Serial #: 8366

Inside

Press @ Run Depth: 124.33 psig @ 4428.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.01.08 End Date: 2013.01.08 Last Calib.: 2013.01.08
 Start Time: 05:45:13 End Time: 14:19:26 Time On Btm: 2013.01.08 @ 08:27:41
 Time Off Btm: 2013.01.08 @ 12:07:56

TEST COMMENT: IFP-Weak Blow , Built to 2-1/2"
 ISI-Dead
 FFP-Weak Blow , Built to 4-1/2"
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2208.81	102.14	Initial Hydro-static
1	35.76	101.48	Open To Flow (1)
7	61.00	104.00	Shut-In(1)
42	1241.73	106.28	End Shut-In(1)
42	73.82	105.74	Open To Flow (2)
95	124.33	109.69	Shut-In(2)
220	1243.66	112.99	End Shut-In(2)
221	2187.55	113.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	MCO-10%G-55%O-35%M	1.40
30.00	Free Oil	0.42
0.00	30' Gas In Pipe	0.00

* 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.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51710

DST#: 3

Test Start: 2013.01.08 @ 05:45:11

Tool Information

Drill Pipe:	Length: 4266.00 ft	Diameter: 3.80 inches	Volume: 59.84 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 60.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4391.00 ft			Final 55000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	88.00 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			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Jars	5.00			4379.00	
Safety Joint	2.00			4381.00	
Packer	5.00			4386.00	28.00 Bottom Of Top Packer
Packer	5.00			4391.00	
Stubb	1.00			4392.00	
Perforations	3.00			4395.00	
Change Over Sub	1.00			4396.00	
Blank Spacing	31.00			4427.00	
Change Over Sub	1.00			4428.00	
Recorder	0.00	8366	Inside	4428.00	
Recorder	0.00	8289	Outside	4428.00	
Perforations	20.00			4448.00	
Bullnose	3.00			4451.00	60.00 Bottom Packers & Anchor
Total Tool Length:	88.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51710

DST#: 3

Test Start: 2013.01.08 @ 05:45:11

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	MCO-10%G-55%O-35%M	1.395
30.00	Free Oil	0.421
0.00	30' Gas In Pipe	0.000

Total Length: 210.00 ft Total Volume: 1.816 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

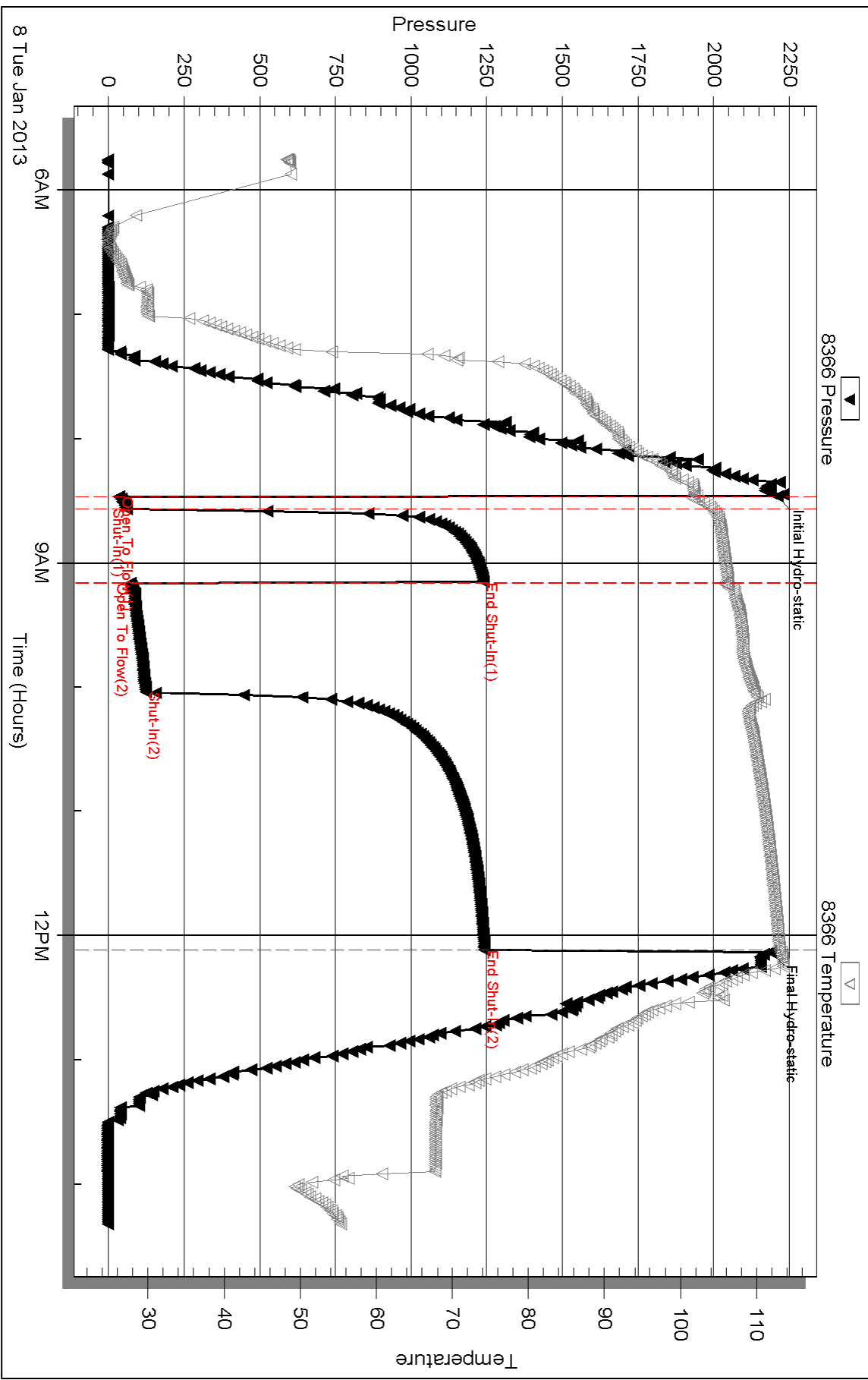
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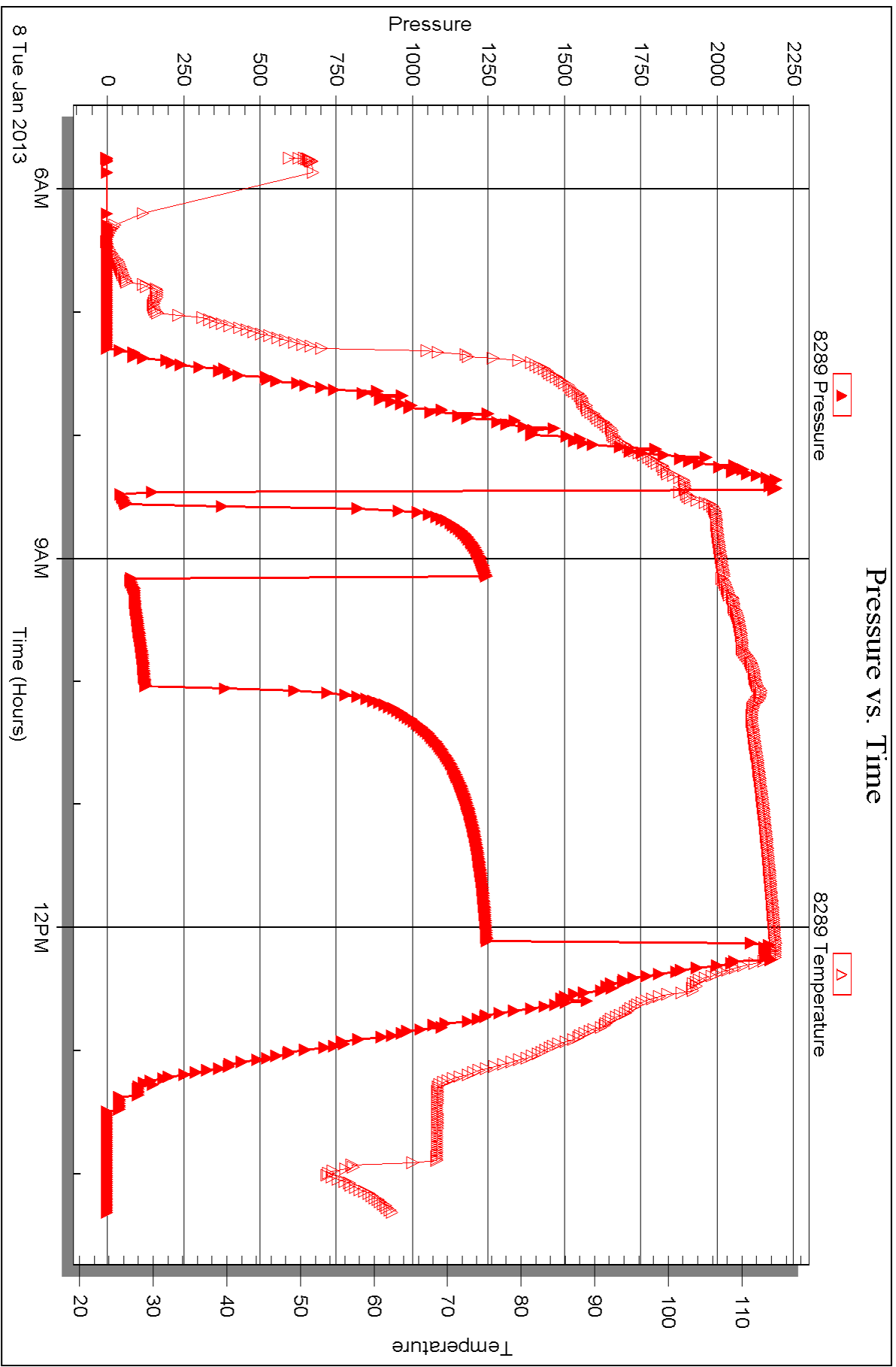
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Company, Inc.**

1700 N. Waterfront Pkwy
Building 1200
Wichita, KS 67206

ATTN: Kevin Kessler

Tillitson #1-7

7-17s-24w-Ness,KS

Start Date: 2013.01.08 @ 19:00:59

End Date: 2013.01.09 @ 03:39:29

Job Ticket #: 51711 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.01.10 @ 10:35:14

Mull Drilling Company, Inc.
7-17s-24w-Ness,KS
Tillitson #1-7
DST # 4
Mississippi
2013.01.08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mull Drilling Company, Inc.

7-17s-24w-Ness, KS

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

Tillitson #1-7

Job Ticket: 51711

DST#: 4

Test Start: 2013.01.08 @ 19:00:59

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:26:14

Time Test Ended: 03:39:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4450.00 ft (KB) To 4456.00 ft (KB) (TVD)

Reference Elevations: 2462.00 ft (KB)

Total Depth: 4380.00 ft (KB) (TVD)

2457.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8366

Inside

Press @ Run Depth: 98.36 psig @ 4453.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.01.08

End Date:

2013.01.09

Last Calib.:

2013.01.09

Start Time: 19:01:01

End Time:

03:39:29

Time On Btm:

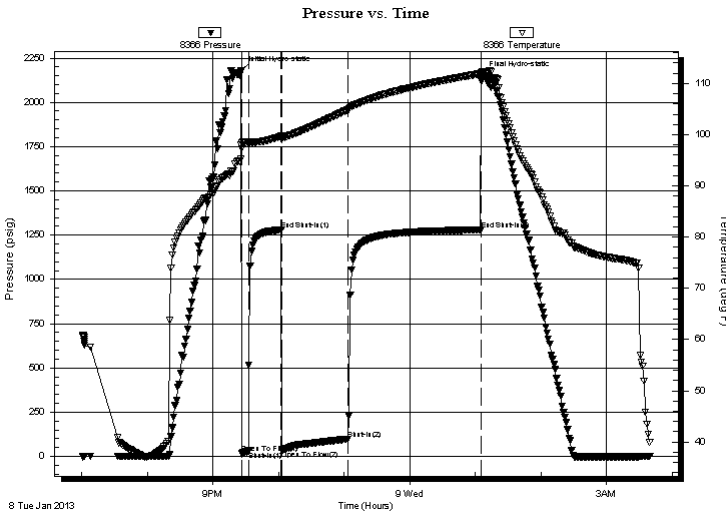
2013.01.08 @ 21:25:59

Time Off Btm:

2013.01.09 @ 01:05:44

TEST COMMENT: IFP-Weak Blow , Built to 1-1/2"
 ISI-Dead
 FFP-Weak Blow , Built to 2-1/2"
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.25	98.04	Initial Hydro-static
1	15.58	97.29	Open To Flow (1)
7	31.78	98.28	Shut-In(1)
37	1279.76	99.70	End Shut-In(1)
37	33.75	99.00	Open To Flow (2)
98	98.36	104.87	Shut-In(2)
219	1278.95	111.92	End Shut-In(2)
220	2149.41	112.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	Muddy Water-90%W-10%M	1.11
40.00	Free Oil	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 Company, Inc.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51711

DST#: 4

Test Start: 2013.01.08 @ 19:00:59

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: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	58000.00 lb
			<u>Total Volume: 61.35 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4450.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	34.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

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

Change Over Sub	1.00			4423.00	
Shut In Tool	5.00			4428.00	
Hydraulic tool	5.00			4433.00	
Jars	5.00			4438.00	
Safety Joint	2.00			4440.00	
Packer	5.00			4445.00	28.00 Bottom Of Top Packer
Packer	5.00			4450.00	
Stubb	1.00			4451.00	
Perforations	2.00			4453.00	
Recorder	0.00	8366	Inside	4453.00	
Recorder	0.00	8289	Outside	4453.00	
Bullnose	3.00			4456.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mull Drilling Company, Inc.

7-17s-24w-Ness,KS

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

Tillitson #1-7

Job Ticket: 51711

DST#: 4

Test Start: 2013.01.08 @ 19:00:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
160.00	Muddy Water-90%W-10%M	1.115
40.00	Free Oil	0.561

Total Length: 200.00 ft

Total Volume: 1.676 bbl

Num Fluid Samples: 0

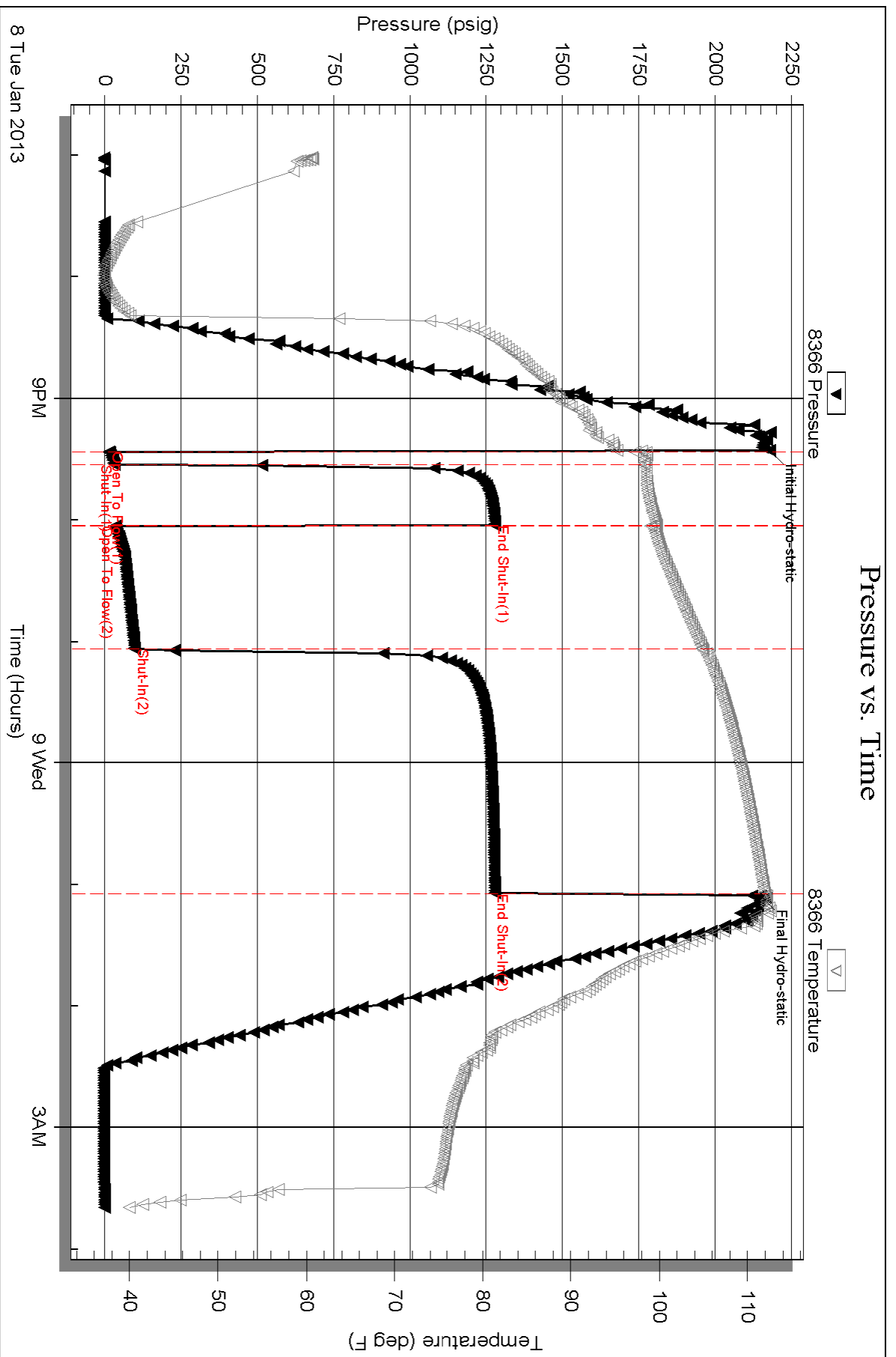
Num Gas Bombs: 0

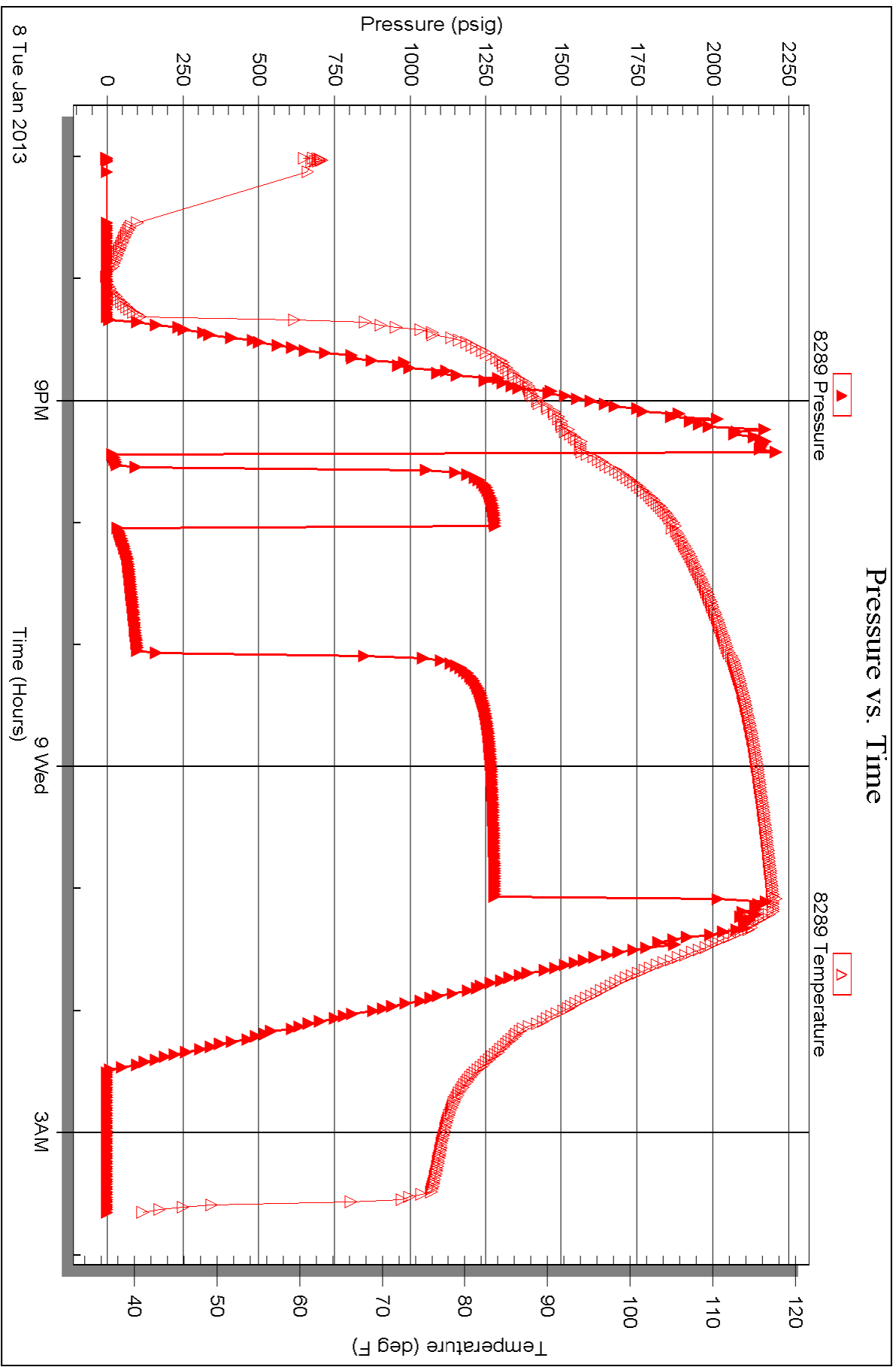
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51708

Well Name & No. #1-7 Tillitson Test No. 1 Date 1-6-13
 Company Mull Drilling Co. Inc. Elevation 2462 KB 2457 GL
 Address 1700 N. Waterfront Parkway, Building 1200, Wichita, KS, 67206
 Co. Rep / Geo. Kevin Kessler Rig WW #10
 Location: Sec. 7 Twp. 17s Rge. 24w Co. Ness State KS

Interval Tested 4320-4380 Zone Tested Fr Scott
 Anchor Length 60' Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 4315 Drill Collars Run 124 Vis 50
 Bottom Packer Depth 4320 Wt. Pipe Run 0 WL 8.0
 Total Depth 4380 Chlorides 6,000 ppm System LCM 1#
 Blow Description IFP - Weak Blow, Built to 1"
ISI - Dead
FFP - Weak Blow, Built to 3 1/2"
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>OCM</u>	<u>15</u>		<u>85</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 45 BHT 112° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2139 Test 1250 T-On Location 22:40
 (B) First Initial Flow 32 Jars 250 T-Started 22:48
 (C) First Final Flow 36 Safety Joint 75 T-Open 1:33
 (D) Initial Shut-In 487 Circ Sub _____ T-Pulled 5:08
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 7:07
 (F) Second Final Flow 46 Mileage 140 rt 217
 (G) Final Shut-In 951 Sampler _____
 (H) Final Hydrostatic 2061 Straddle _____

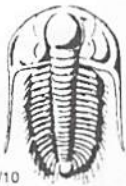
Comments Wait on Tester about 1 hour,

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1792
 MP/DST Disc't _____
 Sub Total 1792

Approved By _____ Our Representative Jason McLemore

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Thank you



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51709

4/10

Well Name & No. #1-7 Tillitson Test No. 2 Date 1-7-13
 Company Mull Drilling Company, Inc. Elevation 2462 KB 2457 GL
 Address 1700 N Waterfront Parkway, Building 1200, Wichita, 67206
 Co. Rep / Geo. Kevin Kessler Rig WW #10
 Location: Sec. 7 Twp. 17s Rge. 24w Co. Ness State KS

Interval Tested 4360 - 4435 Zone Tested Cherokee sand
 Anchor Length 75' Drill Pipe Run 4235 Mud Wt. 9.3
 Top Packer Depth 4355 Drill Collars Run 124 Vis 46
 Bottom Packer Depth 4360 Wt. Pipe Run 0 WL 8.0
 Total Depth 4435 Chlorides 6100 ppm System LCM 1 #
 Blow Description IFF- weak Blow, Built to 1/4"
ISI - Dead
IFF- Weak Intermittent Blow, Built to 1/2"
ISI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>OCM</u>	<u>25</u>		<u>75</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 _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 2200
- (B) First Initial Flow 48
- (C) First Final Flow 53
- (D) Initial Shut-In 591
- (E) Second Initial Flow 57
- (F) Second Final Flow 63
- (G) Final Shut-In 696
- (H) Final Hydrostatic 2190

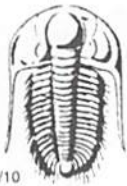
- Test 1250
- Jars 250
- Safety Joint 75
- Circ Sub _____
- Hourly Standby _____
- Mileage 217
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1792

T-On Location 15:10
 T-Started 15:21
 T-Open 17:42
 T-Pulled 21:17
 T-Out 23:29
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1792
 MP/DST Disc't _____

Initial Open 5
 Initial Shut-In 30
 Final Flow 60
 Final Shut-In 120

Approved By _____ Our Representative _____

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. 51710

Well Name & No. #1-7 Tillitson Test No. 3 Date 1-8-13
 Company Mull Drilling Company, Inc. Elevation 2462 KB 2457 GL
 Address 1700 N. Water Front Parkway, Building 1200, Wichita, Ks. 67206
 Co. Rep / Geo. Kevin Kessler Rig WW #10
 Location: Sec. 7 Twp. 17s Rge. 24w Co. Ness State KS

Interval Tested 4391-4451 Zone Tested Mississippi
 Anchor Length 60 Drill Pipe Run 4266 Mud Wt. 9.4
 Top Packer Depth 4386 Drill Collars Run 124 Vis 45
 Bottom Packer Depth 4391 Wt. Pipe Run 0 WL 7.2
 Total Depth 4451 Chlorides 5200 ppm System LCM 1#
 Blow Description IFP - Weak Blow, Built to 2 1/2"
ISI - Dead
FFP - Weak Blow, Built to 4 1/2"
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Free Oil</u>				
<u>180</u>	<u>MCO</u>	<u>10%</u>	<u>55%</u>	<u>35%</u>	
	<u>30' GIP</u>				

Rec Total 210 BHT 113° Gravity 36 API RW @ ° F Chlorides ppm

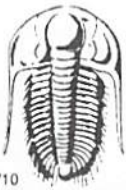
(A) Initial Hydrostatic 2209 Test 1250 T-On Location 5:34
 (B) First Initial Flow 36 Jars 250 T-Started 5:42
 (C) First Final Flow 61 Safety Joint 75 T-Open 8:28
 (D) Initial Shut-In 1242 Circ Sub _____ T-Pulled 12:03
 (E) Second Initial Flow 74 Hourly Standby _____ T-Out 14:20
 (F) Second Final Flow 124 Mileage 217 Comments _____
 (G) Final Shut-In 1244 Sampler _____
 (H) Final Hydrostatic 2188 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1792

Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1792
 MP/DST Disc't _____

Approved By _____ Our Representative Jaron Mc Lomon

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.

Thank You



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 51711

4/10

Well Name & No. #1-7 Tillitson Test No. 41 Date 1-8-11
 Company Mull Drilling Company, Inc. Elevation 2462 KB 2457 GL
 Address 1700 N. Waterfront Parkway, Building 1200, Wichita, Ks. 67206
 Co. Rep / Geo. Kevin Kessler Rig WW#10
 Location: Sec. 7 Twp. 17s Rge. 24w Co. Ness State KS

Interval Tested 4450-4454 Zone Tested Mississippi
 Anchor Length 6 Drill Pipe Run 4330 Mud Wt. 9.4
 Top Packer Depth 4445 Drill Collars Run 129 Vis 45
 Bottom Packer Depth 4450 Wt. Pipe Run 0 WL 7.2
 Total Depth 4456 Chlorides 5200 ppm System LCM 1#
 Blow Description IFP - Weak Blow, Built to 1 1/2"
ISI - Dead
FFP - Weak Blow, Built to 2 1/2"
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>Free Oil</u>				
<u>160</u>	<u>Muddy Water</u>		<u>90</u>	<u>10</u>	

Rec Total 200 BHT _____ Gravity 36 API RW .567 @ 32 °F Chlorides 30,000 ppm

(A) Initial Hydrostatic <u>2179</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>18:50</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>18:57</u>
(C) First Final Flow <u>32</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>21:26</u>
(D) Initial Shut-In <u>1280</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>11:01</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:38</u>
(F) Second Final Flow <u>98</u>	<input checked="" type="checkbox"/> Mileage <u>217</u>	Comments _____
(G) Final Shut-In <u>1279</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2149</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby _____	Total <u>1792</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1792</u>	

Approved By _____ Our Representative _____

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KEVIN L. KESSLER
CONSULTING PETROLEUM GEOLOGIST
(316) 522-7338

OPERATOR : MULL DRILLING CO INC.
LEASE : TILLITSON WELL # : 1 - 7
LOCATION : 1208' FNL & 769' FEL
SEC: 07 TWP : 17 S RGE : 24 W
COUNTY : NESS STATE : KANSAS

ELEVATION
KB : 2462
GL : 2457
 MEASUREMENTS FROM
KB

CONTRACTOR : W W DRILLING RIG # 10
COMM : 01 / 02 / 2013 COMP : 02 / 09 / 2013
RTD : 4775 LOG TD : 4774
SAMPLES SAVED FROM : 3700 TO : RTD
GEOLOGICAL SUPERVISION FROM : 3700 TO : RTD
MUD UP : 3600 TYPE MUD : CHEMICAL

CASING RECORD
SURFACE :
8 5/8" @ 225'
PRODUCTION :
5 1/2" @ 4550

ELECTRICAL SURVEYS:

FORMATION	TOP	LOG	DATUM	TOP	SAMPLE	DATUM	STRUCT. COMP.
HEEBNER	3813		-1351	3813		-1351	-03
LANSING	3854		-1392	3854		-1392	-01
BASE/KC	4140		-1678	4140		-1678	-02
FORT SCOTT	4348		-1886	4348		-1886	-04
CHEROKEE	4373		-1911	4373		-1911	-03
MISSISSIPPI	4446		-1984	4446		-1984	FLAT

CDL/CNL

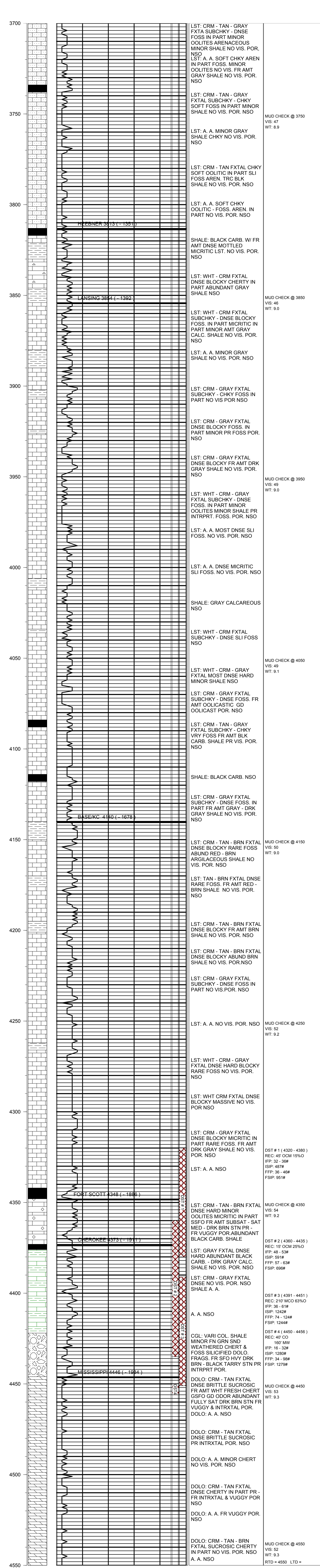
DIL

MICRO

SONIC

REFERENCE WELL FOR STRUCTURAL COMPARISON :

CRAWFORD OIL & GAS # 1-7 TILLITSON SEC 07 - T 17 S - R 32 W NESS COUNTY KANSAS



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

KEVIN L. KESSLER



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 39231

LOCATION Ochley KS

FOREMAN Miles Shaw

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-2-13	5659	Tillitson #1-7	7	17S	24W	NESS
CUSTOMER <u>Mull Drilling</u>			ARNOVA 1E 3S 1E S4W			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			405	Jerry Y		
STATE			506	Sordan L		
ZIP CODE						

JOB TYPE Surface HOLE SIZE 1 1/4" HOLE DEPTH 225 CASING SIZE & WEIGHT 8 5/8" 23#
 CASING DEPTH 225 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 17.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
 DISPLACEMENT 13 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting and rig up on W/d drilling #10 Circulate casing
Mix 17.8 S/S Common class A cement with 38 colour 28 gal disp
13 bbls water Shut in Cement did circulate approx 5 bbls to bit

Thanks Miles & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085	1085.00
5406	30	MILEAGE	5.00	150.00
5407A	8.20 tons	Ton Mileage delivery	1.167	9.57
11045	175 S/S	Common class A cement	17.65	3088.75
1102	493 #	Calcium chloride	.89	438.27
1188B	329 #	Ben bun to gel	.25	82.25
		Subtotal		5256.67
		loss / gel / cement		525.67
		Subtotal		4731.00
		SALES TAX		204.67
		ESTIMATED TOTAL		4935.67

Completed

Ravin 3737

AUTHORIZATION [Signature] TITLE ten pastor DATE 1-2-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

022100



Services, Inc.

CHARGE TO: MULL DRILLING
ADDRESS
CITY, STATE, ZIP CODE

TICKET No 23788

PAGE 1 OF 2

1. SERVICE LOCATION: Ness City, KS
WELL/PROJECT NO. TULLITSON 1-7
LEASE CONTRACTOR: WJD DRILLING #10
RIG NAME NO. Ness
STATE: KS CITY: ARVID, KS DATE: 9 JAN 13
OWNER: 9 JAN 13

2. TICKET TYPE: SERVICE
WELL TYPE: DIL
WELL CATEGORY: DEVELOPMENT
JOB PURPOSE: 5 & 1/2" LONG STRING

3. INVOICE INSTRUCTIONS

4. REFERRAL LOCATION

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575					MILEAGE #115	275	MI			6	1570
578					PUMP CHARGE	1	HR			1570	1570
A00					GUIDE SAGE	1	EA			1600	1600
4D2					CENTRALIZERS	10	EA			70	700
4D3					CEMENT BASKET	1	EA			257	257
4B4					PART COLLAR	1	EA	180	FT.	2400	2400
410					TOP PLUG	1	EA			100	100
413					ROTO WALL SCRATCHERS	15	EA			40	600
415					INSERT FLOAT COLLAR w/ FILL UP	1	EA			400	400
280					FLANGE R21	1000	SAC			2.50	2500
221					LIQUID KEL	2	SAL			25	50

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: 10 JAN 13 TIME SIGNED: 0615 AM

REMIT PAYMENT TO:
SWIFT SERVICES, INC.
P.O. BOX 466
NESS CITY, KS 67560
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	TOTAL
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	3810
WE UNDERSTOOD AND MET YOUR NEEDS?				2	3965
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				Subtotal	12775
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Tax	602.45
ARE YOU SATISFIED WITH OUR SERVICE?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TOTAL	13,437.45

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES. The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: [Signature]
APPROVAL: [Signature]

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 2

CUSTOMER MULL DRILLING-

WELL TILTON 1-7

DATE 9/5/04

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.				UNIT PRICE	
		LOC	ACCT	DF			QTY.	UM.	QTY.	UM.		
276						FLOECE	45	lbs				21
283						SAIT	850	lbs				
279						GEL	3	bx				25
286						HEAD-1	100	lbs				7
290						D-AIR	2	prc				35
419						ROTATING HEAD RENTAL	1	hr				200
420						PLUG DOWNER MANIFOLD	1	hr				210
327						50/50 Pozmix	180	bx				10
581						SERVICE CHARGE						2
582						MILEAGE CHARGE	15	mi				25
						TOTAL WEIGHT	190.33	TON				
						LOADED MILES	25					
						CUBIC FEET	180	bx				
						TON MILES	190.33					

CONTINUATION TOTAL

JOB LOG

SWIFT Services, Inc.

DATE 2/25/13 PAGE NO.

CUSTOMER
MULL DRILLING

WELL NO.

LEASE
TILLITSON 1-7

JOB TYPE
CEMENT PORT COLLAR

TICKET NO.
23793

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1050							ON LOCATION
								PORT COLLAR @ 1807
	1111			✓			2000	TEST - HELD
	1114							OPEN PORT COLLAR
	1117	4 1/2	100	✓		300		MIX 180SX SAND
		3	9 1/2	✓		200		DISPLACE CEMENT
								CIRCULATE 20SX TO PTT
	1144			✓		1000		CLOSE PORT COLLAR - TEST - HELD
								RUN 4 JOINTS
	1155	4	22	✓		250		REVERSE CEMENT OUT OF TUBING
	1202							WASH TRUCK
	1230							JOB COMPLETE
								THANKS #115
								JASON JEFF JEREMY