



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1114012  
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: \_\_\_\_\_



1114012

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
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Schmitt-County Unit 1-11
Doc ID	1114012

All Electric Logs Run

CDL/CNL
DIL
MEL
Sonic

Form	ACO1 - Well Completion
Operator	Mull Drilling Company, Inc.
Well Name	Schmitt-County Unit 1-11
Doc ID	1114012

Tops

Name	Top	Datum
Anhydrite	2354	+ 638
B/Anhydrite	2373	+ 619
Heebner Shale	3049	- 957
Lansing	3986	- 994
B/KC	4361	- 1369
Marmaton	4392	- 1400
Pawnee	4476	- 1484
Ft. Scott	4524	- 1532
Cherokee Shale	4550	- 1558
Mississippian	4653	- 1661

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

February 07, 2013

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

Re: ACO1  
API 15-171-20919-00-00  
Schmitt-County Unit 1-11  
NW/4 Sec.11-17S-32W  
Scott 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



**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 37281  
LOCATION Oakley MS  
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
11-13-12	5659	Schmitt County Unit #1-11	11	17S	32W	Scott
CUSTOMER <u>Mull Drilling</u>		83rd Hwy 3rd 4E Southside	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			4527118	Damon M		
CITY			806	Jordan L		
STATE						
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 224 CASING SIZE & WEIGHT 8 5/8 24#  
 CASING DEPTH 224 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.8 SLURRY VOL 1.32 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 13 bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting and rig work on UW #10 drilling circulate casing  
mix 16.5 SWS cement with 30 Calcium 20 gel displaced 13 bbls water shut in  
Cement did circulate 6 bbls bit

Thank Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
34015	1	PUMP CHARGE	1085 <sup>00</sup>	1085 <sup>00</sup>
5402	30	MILEAGE	5 <sup>00</sup>	150 <sup>00</sup>
5407	7.75 tons	Ton mileage delivery	410 <sup>00</sup>	410 <sup>00</sup>
1104S	165 SWS	Class A cement	170.65	292.25
1102	415 #	Calcium Chloride	.89	413.85
1118B	310 #	Bentonite gel	1.25	77.50
			Subtotal	5048.10
			less 10% discount	504.86
			Subtotal	4543.24
			SALES TAX	254.25
			ESTIMATED TOTAL	4797.99

Revin 3737

AUTHORIZATION [Signature] TITLE tax/packer DATE \_\_\_\_\_

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

250255



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Comp. INC.**

1700 N Waterfront PKWAY  
Wichita KS 67206

ATTN: Phil Askey

### **Schmitt-County #1-11**

### **11-17s-32w Scott KS**

Start Date: 2012.11.17 @ 11:52:57

End Date: 2012.11.17 @ 17:30:12

Job Ticket #: 49838                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.23 @ 14:19:20

Mull Drilling Comp. INC.

11-17s-32w Scott KS

Schmitt-County #1-11

DST # 1

Lansing J&K

2012.11.17



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Comp. INC.  
 1700 N Waterfront PKWAY  
 Wichita KS 67206  
 ATTN: Phil Askey

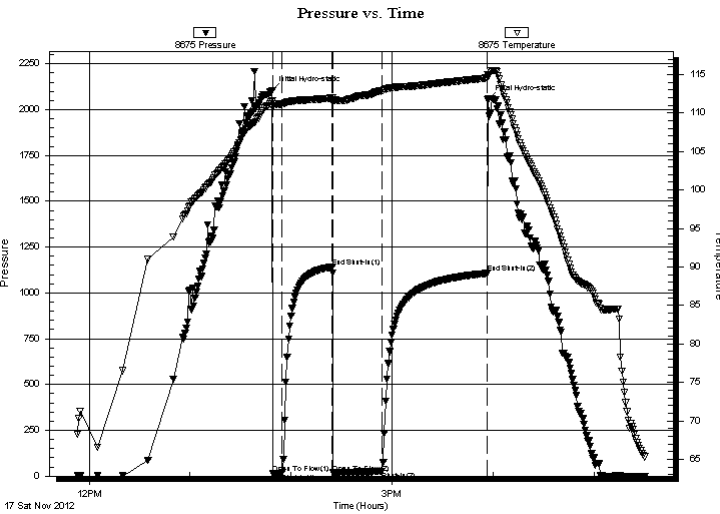
**11-17s-32w Scott KS**  
**Schmitt-County #1-11**  
 Job Ticket: 49838 **DST#: 1**  
 Test Start: 2012.11.17 @ 11:52:57

## GENERAL INFORMATION:

Formation: **Lansing J&K**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:48:57  
 Time Test Ended: 17:30:12  
 Interval: **4263.00 ft (KB) To 4295.00 ft (KB) (TVD)**  
 Total Depth: 4295.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Tate Lang  
 Unit No: 46  
 Reference Elevations: 2992.00 ft (KB)  
 2987.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8675 Inside**  
 Press @ Run Depth: 25.74 psig @ 4264.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.17 End Date: 2012.11.17 Last Calib.: 2012.11.17  
 Start Time: 11:53:12 End Time: 17:30:12 Time On Btm: 2012.11.17 @ 13:48:42  
 Time Off Btm: 2012.11.17 @ 15:56:42

**TEST COMMENT:** IF-Weak surface blow died in 3 1/2 mins.  
 IS-Dead no return.  
 FF-Dead no blow.  
 FS-Dead no return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2104.57	111.61	Initial Hydro-static
1	14.76	110.74	Open To Flow (1)
6	16.29	111.16	Shut-In(1)
36	1142.11	111.95	End Shut-In(1)
37	17.68	111.34	Open To Flow (2)
66	25.74	112.89	Shut-In(2)
128	1106.60	114.55	End Shut-In(2)
128	2052.46	114.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	0.00

## Gas Rates

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





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

ATTN: Phil Askey

Job Ticket: 49838

**DST#: 1**

Test Start: 2012.11.17 @ 11:52:57

## GENERAL INFORMATION:

Formation: **Lansing J&K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:48:57

Time Test Ended: 17:30:12

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 46

**Interval: 4263.00 ft (KB) To 4295.00 ft (KB) (TVD)**

Reference Elevations: 2992.00 ft (KB)

Total Depth: 4295.00 ft (KB) (TVD)

2987.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8650 Outside**

Press @ RunDepth: psig @ 4264.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.11.17

End Date:

2012.11.17

Last Calib.:

2012.11.17

Start Time: 11:52:56

End Time:

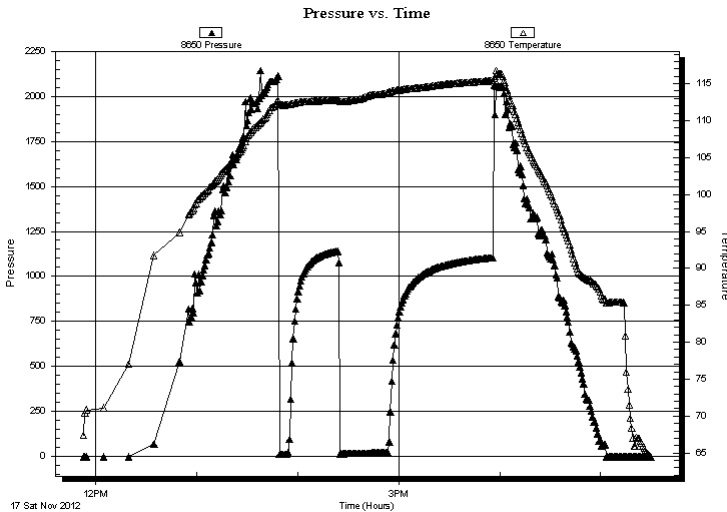
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Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF-Weak surface blow died in 3 1/2 mins.  
IS-Dead no return.  
FF-Dead no blow.  
FS-Dead no return.

## PRESSURE SUMMARY



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

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	0.00

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Mull Drilling Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 49838

**DST#: 1**

ATTN: Phil Askey

Test Start: 2012.11.17 @ 11:52:57

## Tool Information

Drill Pipe:	Length: 4126.00 ft	Diameter: 3.80 inches	Volume: 57.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4263.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	52.00 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			4244.00	
Shut In Tool	5.00			4249.00	
Hydraulic tool	5.00			4254.00	
Packer	5.00			4259.00	20.00 Bottom Of Top Packer
Packer	4.00			4263.00	
Stubb	1.00			4264.00	
Recorder	0.00	8675	Inside	4264.00	
Recorder	0.00	8650	Outside	4264.00	
Perforations	28.00			4292.00	
Bullnose	3.00			4295.00	32.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>52.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 49838

**DST#: 1**

ATTN: Phil Askey

Test Start: 2012.11.17 @ 11:52:57

## 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: 6.37 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
1.00	100%M with oil spots	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

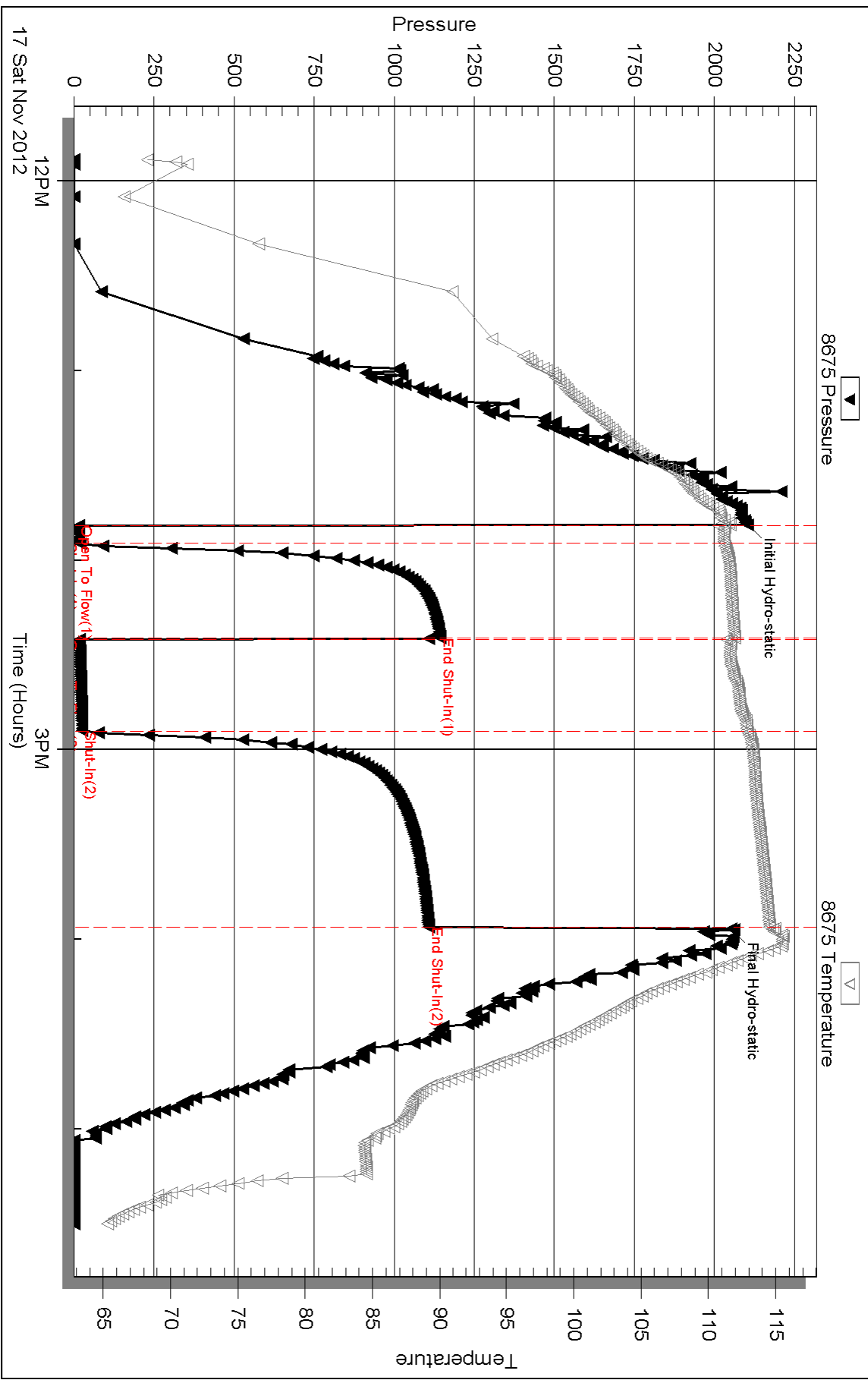
Inside

Mull Drilling Comp. INC.

Schmitt-County #1-11

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49838

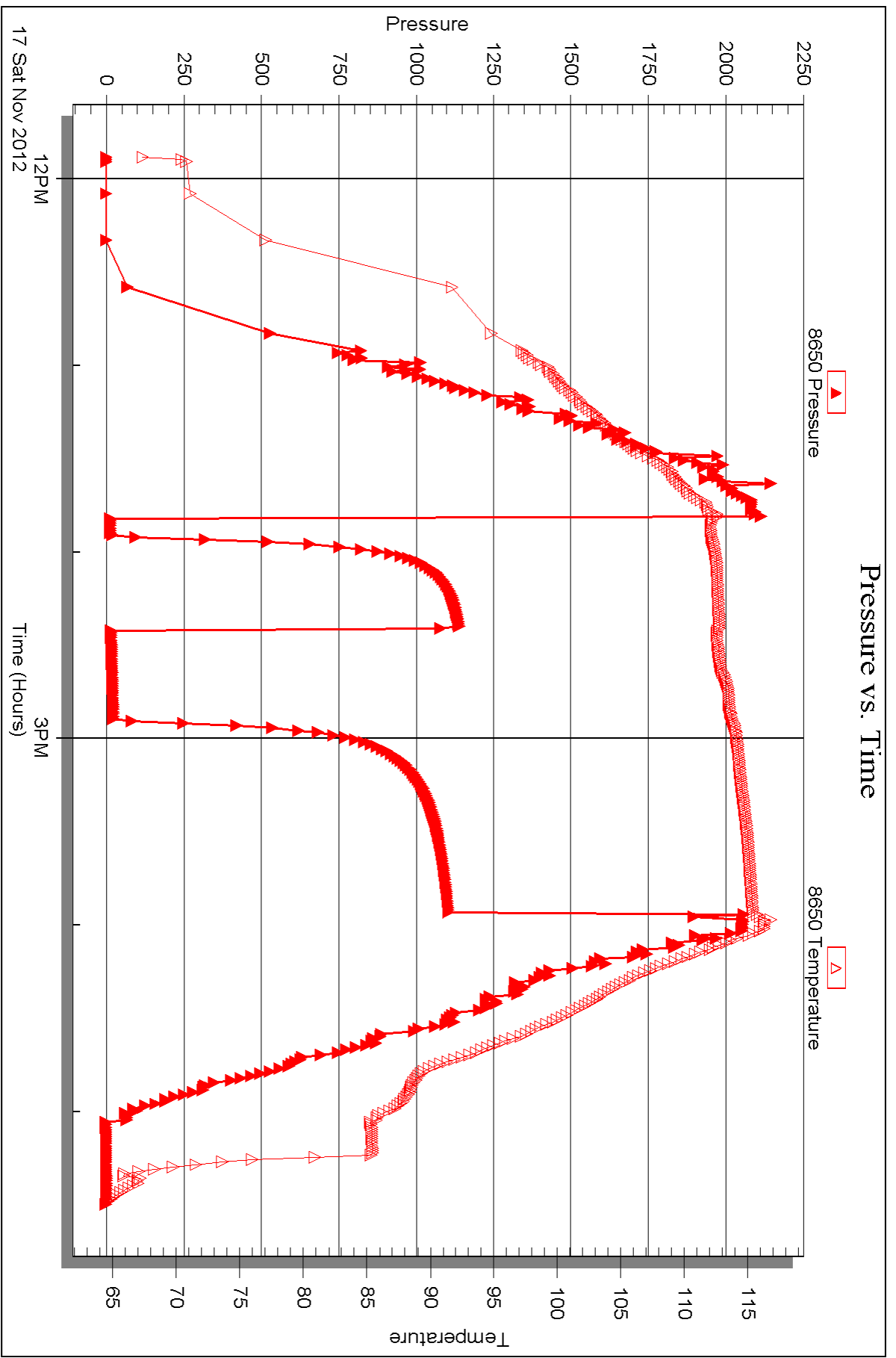
Printed: 2012.11.23 @ 14:19:24

Serial #: 8650

Outside Mull Drilling Comp. INC.

Schmitt-County #1-11

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49838

Printed: 2012.11.23 @ 14:19:25



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Comp. INC.**

1700 N Waterfront PKWAY  
Wichita KS 67206

ATTN: Phil Askey

### **Schmitt-County #1-11**

### **11-17s-32w Scott KS**

Start Date: 2002.01.01 @ 11:49:44

End Date: 2002.01.01 @ 17:13:14

Job Ticket #: 49839                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.23 @ 14:18:39

Mull Drilling Comp. INC.

11-17s-32w Scott KS

Schmitt-County #1-11

DST # 2

Marmaton-Pawnee

2002.01.01



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Comp. INC.  
 1700 N Waterfront PKWAY  
 Wichita KS 67206  
 ATTN: Phil Askey

**11-17s-32w Scott KS**  
**Schmitt-County #1-11**  
 Job Ticket: 49839 **DST#: 2**  
 Test Start: 2002.01.01 @ 11:49:44

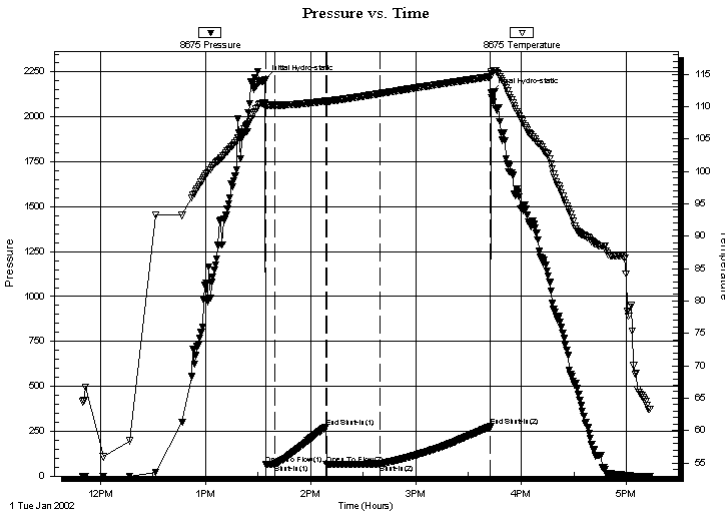
## GENERAL INFORMATION:

Formation: **Marmaton-Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:34:14  
 Time Test Ended: 17:13:14  
 Interval: **4362.00 ft (KB) To 4490.00 ft (KB) (TVD)**  
 Total Depth: 4490.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 46  
 Reference Elevations: 2992.00 ft (KB)  
 2987.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8675 Inside**  
 Press @ RunDepth: 68.38 psig @ 4364.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2002.01.01 End Date: 2002.01.01 Last Calib.: 2012.11.18  
 Start Time: 11:49:59 End Time: 17:13:14 Time On Btm: 2002.01.01 @ 13:33:59  
 Time Off Btm: 2002.01.01 @ 15:42:59

**TEST COMMENT:** IF-Weak surface blow .  
 IS-Dead no return.  
 FF-Dead no blow .  
 FS-Dead no return.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.55	110.54	Initial Hydro-static
1	64.61	109.81	Open To Flow (1)
6	65.46	110.22	Shut-In(1)
35	273.88	110.85	End Shut-In(1)
35	66.64	110.71	Open To Flow (2)
66	68.38	112.01	Shut-In(2)
129	275.57	114.60	End Shut-In(2)
129	2137.03	115.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M with oil spots	0.00

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Mull Drilling Comp. INC.

11-17s-32w Scott KS

1700 N Waterfront PKWAY  
Wichita KS 67206

Schmitt-County #1-11

ATTN: Phil Askey

Job Ticket: 49839

DST#: 2

Test Start: 2002.01.01 @ 11:49:44

### GENERAL INFORMATION:

Formation: **Marmaton-Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:34:14

Time Test Ended: 17:13:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 46

Interval: **4362.00 ft (KB) To 4490.00 ft (KB) (TVD)**

Reference Elevations: 2992.00 ft (KB)

Total Depth: 4490.00 ft (KB) (TVD)

2987.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8650 Outside**

Press @ Run Depth: psig @ 4364.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2002.01.01 End Date: 2002.01.01

Last Calib.: 2012.11.18

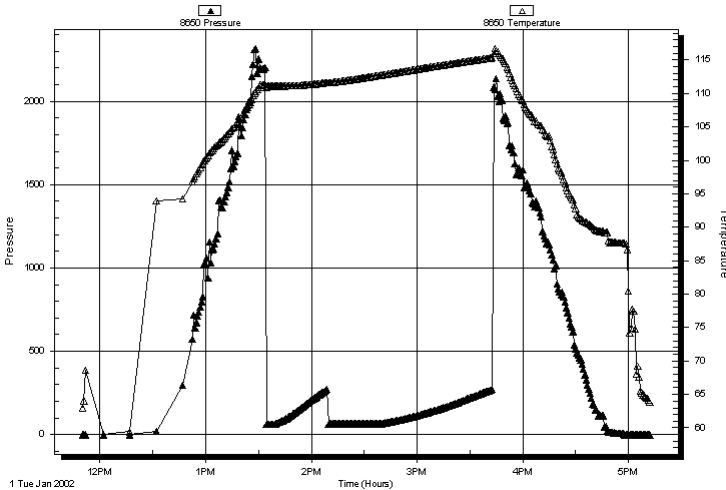
Start Time: 11:50:12 End Time: 17:12:27

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-Weak surface blow .  
IS-Dead no return.  
FF-Dead no blow .  
FSI-Dead no return.

Pressure vs. Time



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	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 Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 49839

**DST#: 2**

ATTN: Phil Askey

Test Start: 2002.01.01 @ 11:49:44

## Tool Information

Drill Pipe:	Length: 4250.00 ft	Diameter: 3.80 inches	Volume: 59.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 60.23 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4362.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	128.00 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			4343.00	
Shut In Tool	5.00			4348.00	
Hydraulic tool	5.00			4353.00	
Packer	5.00			4358.00	20.00 Bottom Of Top Packer
Packer	4.00			4362.00	
Stubb	1.00			4363.00	
Perforations	1.00			4364.00	
Recorder	0.00	8675	Inside	4364.00	
Recorder	0.00	8650	Outside	4364.00	
Change Over Sub	1.00			4365.00	
Drill Pipe	30.00			4395.00	
Blank Spacing	63.00			4458.00	
Change Over Sub	1.00			4459.00	
Perforations	28.00			4487.00	
Bullnose	3.00			4490.00	128.00 Bottom Packers & Anchor

**Total Tool Length: 148.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 49839

**DST#: 2**

ATTN: Phil Askey

Test Start: 2002.01.01 @ 11:49:44

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	100%M with oil spots	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

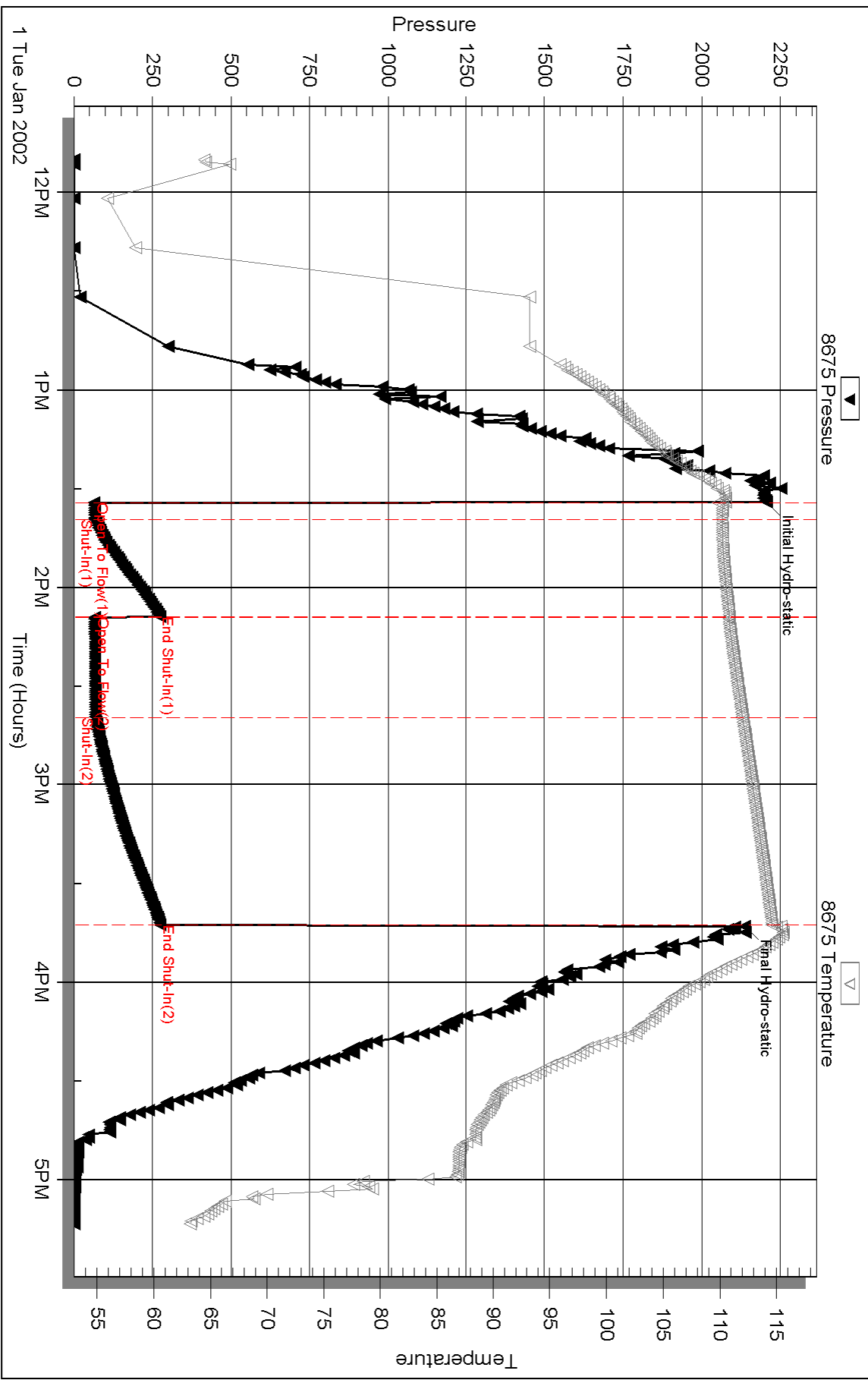
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

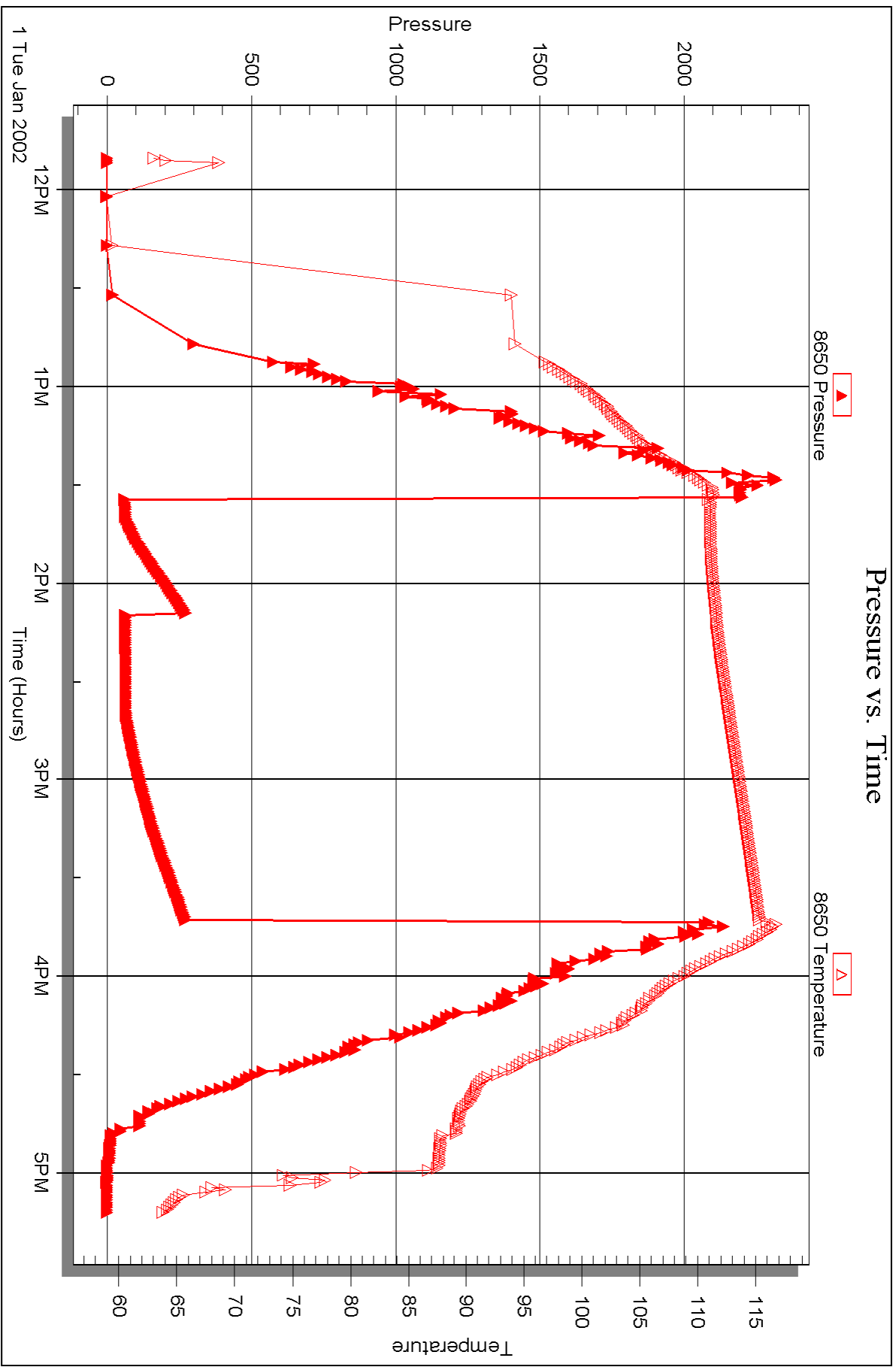


Serial #: 8650

Outside Mall Drilling Comp. INC.

Schmitt-County #1-11

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Comp. INC.**

1700 N Waterfront PKWAY  
Wichita KS 67206

ATTN: Phil Askey

### **Schmitt-County #1-11**

### **11-17s-32w Scott KS**

Start Date: 2012.11.19 @ 03:03:06

End Date: 2012.11.19 @ 08:32:51

Job Ticket #: 48940                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.11.23 @ 14:17:56

Mull Drilling Comp. INC.

11-17s-32w Scott KS

Schmitt-County #1-11

DST # 3

Ft. Scott-Cherokee

2012.11.19



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Comp. INC.  
1700 N Waterfront PKWAY  
Wichita KS 67206  
ATTN: Phil Askey

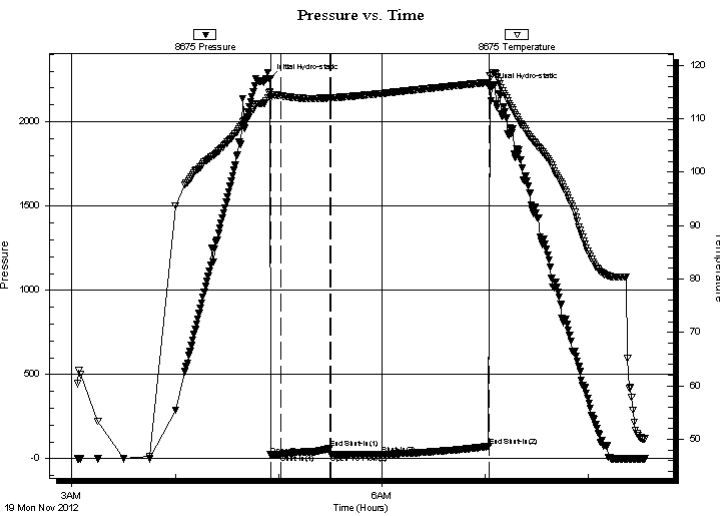
**11-17s-32w Scott KS**  
**Schmitt-County #1-11**  
Job Ticket: 48940 **DST#: 3**  
Test Start: 2012.11.19 @ 03:03:06

## GENERAL INFORMATION:

Formation: **Ft. Scott-Cherokee**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 04:55:21  
Time Test Ended: 08:32:51  
Interval: **4513.00 ft (KB) To 4565.00 ft (KB) (TVD)**  
Total Depth: 4565.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Tate Lang  
Unit No: 46  
Reference Elevations: 2992.00 ft (KB)  
2987.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8675 Inside**  
Press @ Run Depth: 26.13 psig @ 4515.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.11.19 End Date: 2012.11.19 Last Calib.: 2012.11.19  
Start Time: 03:03:21 End Time: 08:32:51 Time On Btm: 2012.11.19 @ 04:55:06  
Time Off Btm: 2012.11.19 @ 07:02:36

**TEST COMMENT:** IF-Weak surface blow .  
ISI-Dead no return.  
FF-Dead no blow  
FSI-Dead no return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2257.43	115.00	Initial Hydro-static
1	23.40	113.84	Open To Flow (1)
7	25.84	114.28	Shut-In(1)
35	63.67	113.93	End Shut-In(1)
36	25.25	113.93	Open To Flow (2)
66	26.13	114.76	Shut-In(2)
127	74.13	116.82	End Shut-In(2)
128	2200.87	118.08	Final Hydro-static

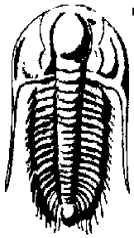
## Recovery

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	0.00

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Mull Drilling Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

ATTN: Phil Askey

Job Ticket: 48940 **DST#: 3**  
Test Start: 2012.11.19 @ 03:03:06

**GENERAL INFORMATION:**

Formation: **Ft. Scott-Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:55:21

Time Test Ended: 08:32:51

**Interval: 4513.00 ft (KB) To 4565.00 ft (KB) (TVD)**

Total Depth: 4565.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 46

Reference Elevations: 2992.00 ft (KB)

2987.00 ft (CF)

KB to GR/CF: 5.00 ft

**Serial #: 8650 Outside**

Press @ RunDepth: psig @ 4515.00 ft (KB)

Start Date: 2012.11.19

End Date: 2012.11.19

Capacity: 8000.00 psig

Last Calib.: 2012.11.19

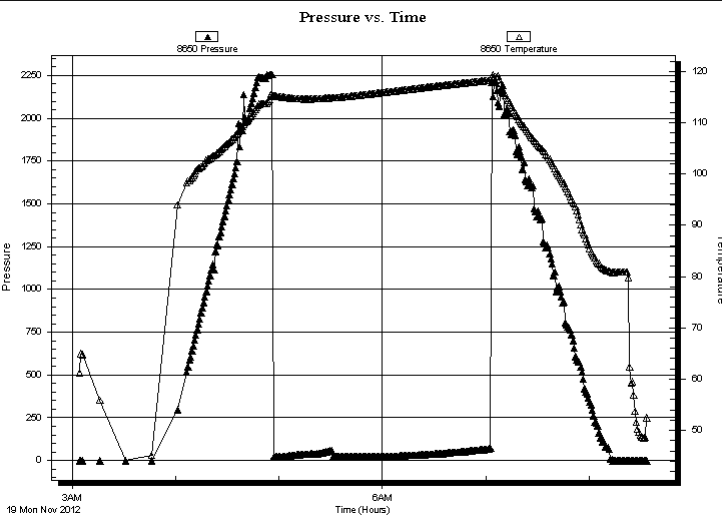
Start Time: 03:04:10

End Time: 08:33:25

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF-Weak surface blow .  
ISI-Dead no return.  
FF-Dead no blow  
FSI-Dead no return



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
1.00	100%M w ith oil spots	0.00

**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 Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 48940

**DST#: 3**

ATTN: Phil Askey

Test Start: 2012.11.19 @ 03:03:06

## Tool Information

Drill Pipe:	Length: 4375.00 ft	Diameter: 3.80 inches	Volume: 61.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 61.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4513.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 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			4494.00	
Shut In Tool	5.00			4499.00	
Hydraulic tool	5.00			4504.00	
Packer	5.00			4509.00	20.00 Bottom Of Top Packer
Packer	4.00			4513.00	
Stubb	1.00			4514.00	
Perforations	1.00			4515.00	
Recorder	0.00	8675	Inside	4515.00	
Recorder	0.00	8650	Outside	4515.00	
Perforations	15.00			4530.00	
Change Over Sub	1.00			4531.00	
Drill Pipe	30.00			4561.00	
Change Over Sub	1.00			4562.00	
Bullnose	3.00			4565.00	52.00 Bottom Packers & Anchor

**Total Tool Length: 72.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 48940

**DST#: 3**

ATTN: Phil Askey

Test Start: 2012.11.19 @ 03:03:06

## 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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1.00	100%M with oil spots	0.005

Total Length: 1.00 ft      Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8675

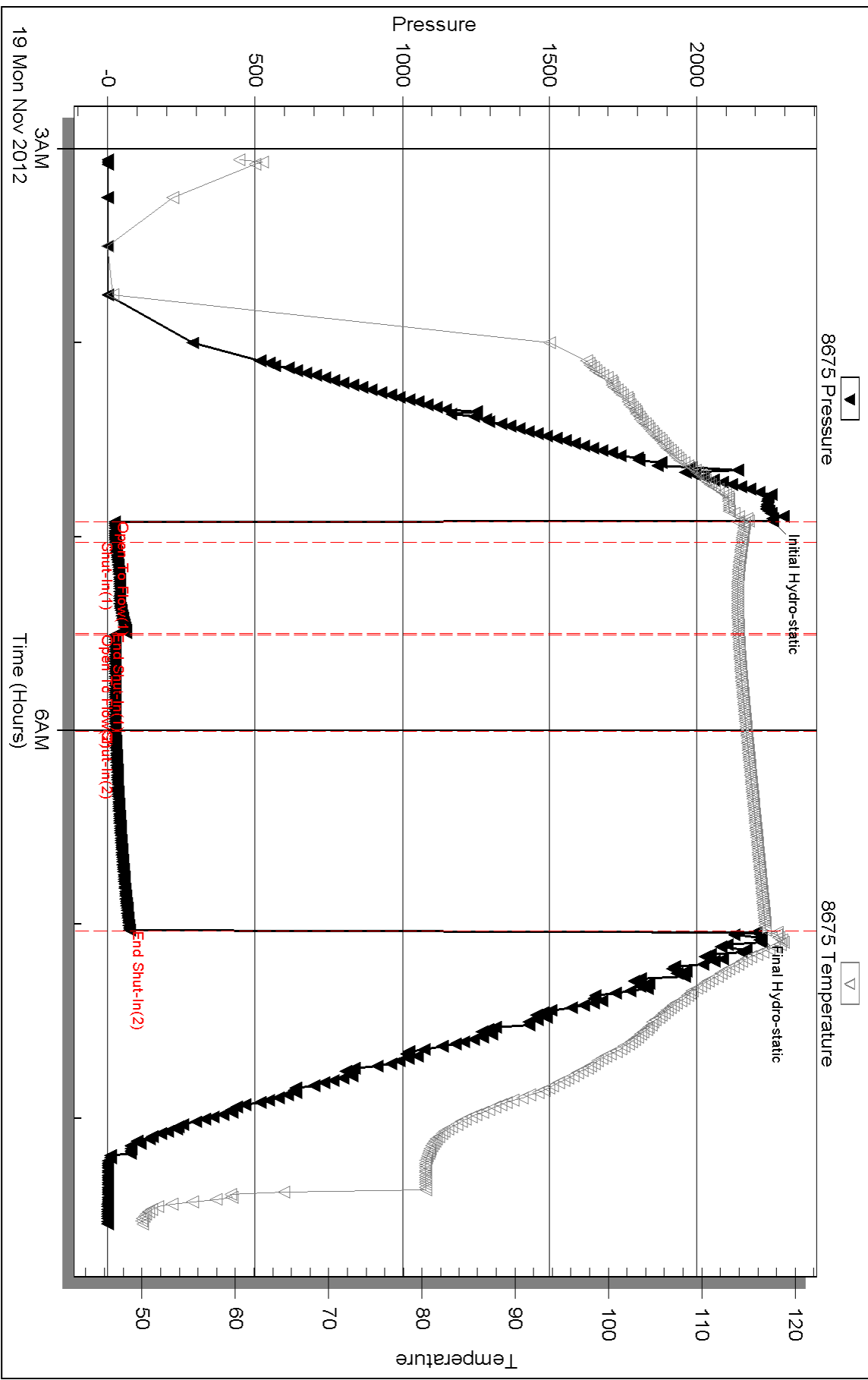
Inside

Mull Drilling Comp. INC.

Schmitt-County #1-11

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48940

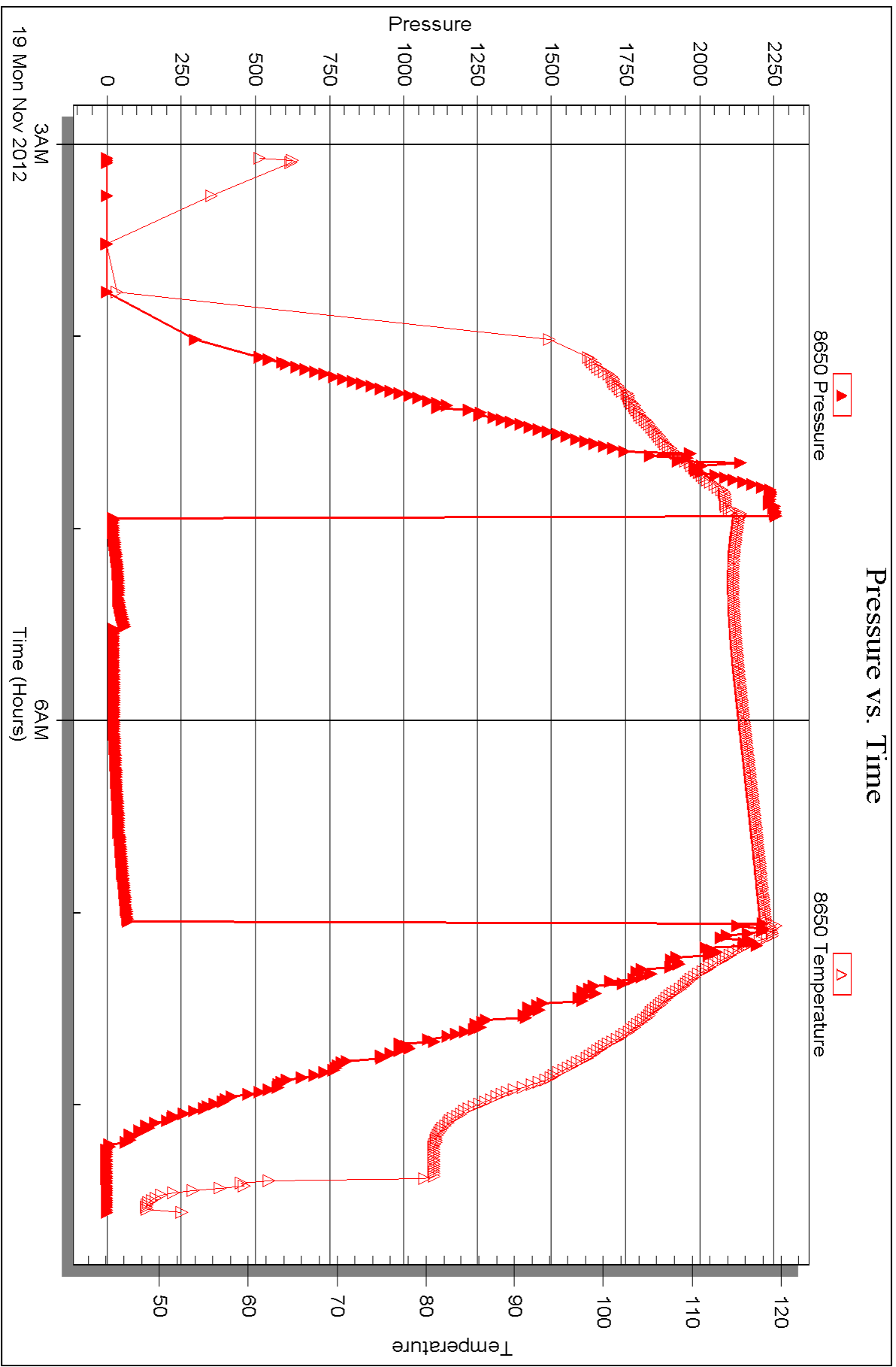
Printed: 2012.11.23 @ 14:18:00

Serial #: 8650

Outside Mall Drilling Comp. INC.

Schmitt-County #1-11

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48940

Printed: 2012.11.23 @ 14:18:00



## DRILL STEM TEST REPORT

Prepared For: **Mull Drilling Comp. INC.**

1700 N Waterfront PKWAY  
Wichita KS 67206

ATTN: Phil Askey

### **Schmitt-County #1-11**

### **11-17s-32w Scott KS**

Start Date: 2012.11.19 @ 18:04:22

End Date: 2012.11.19 @ 23:28:45

Job Ticket #: 49841                      DST #: 4

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

Printed: 2012.11.23 @ 14:17:05

Mull Drilling Comp. INC.

11-17s-32w Scott KS

Schmitt-County #1-11

DST # 4

Johnson

2012.11.19



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Comp. INC.  
 1700 N Waterfront PKWAY  
 Wichita KS 67206  
 ATTN: Phil Askey

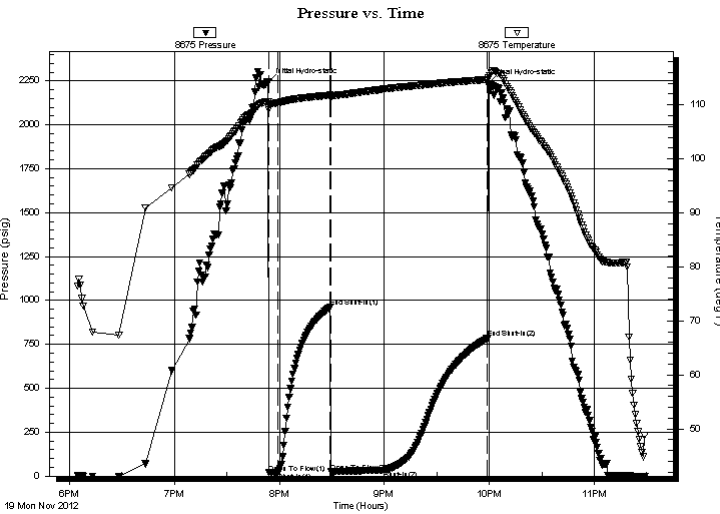
**11-17s-32w Scott KS**  
**Schmitt-County #1-11**  
 Job Ticket: 49841 **DST#: 4**  
 Test Start: 2012.11.19 @ 18:04:22

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:54:00  
 Time Test Ended: 23:28:45  
**Interval: 4546.00 ft (KB) To 4640.00 ft (KB) (TVD)**  
 Total Depth: 4640.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Tate Lang  
 Unit No: 46  
 Reference Elevations: 2992.00 ft (KB)  
 2987.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8675 Inside**  
 Press @ Run Depth: 33.66 psig @ 4547.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.19 End Date: 2012.11.19 Last Calib.: 2012.11.19  
 Start Time: 18:04:37 End Time: 23:28:45 Time On Btm: 2012.11.19 @ 19:53:45  
 Time Off Btm: 2012.11.19 @ 21:59:15

**TEST COMMENT:** IF-Weak surface blow .  
 IS-Dead no return.  
 FF-Dead no blow .  
 FS-Dead no return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.27	110.63	Initial Hydro-static
1	18.64	109.13	Open To Flow (1)
6	21.91	110.40	Shut-In(1)
36	960.54	111.80	End Shut-In(1)
36	24.20	111.27	Open To Flow (2)
67	33.66	112.92	Shut-In(2)
125	783.33	114.70	End Shut-In(2)
126	2231.76	115.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M with skim of oil on top of tool	0.02

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Mull Drilling Comp. INC.  
 1700 N Waterfront PKWAY  
 Wichita KS 67206  
 ATTN: Phil Askey

**11-17s-32w Scott KS**  
**Schmitt-County #1-11**  
 Job Ticket: 49841 **DST#: 4**  
 Test Start: 2012.11.19 @ 18:04:22

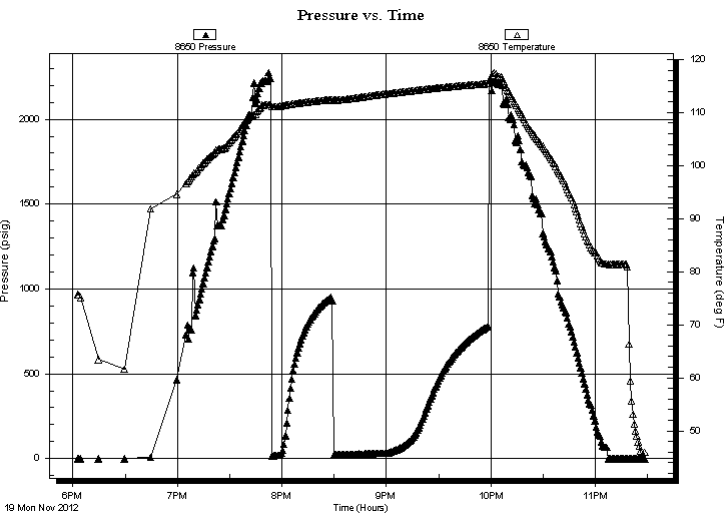
## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Reset)  
 Time Tool Opened: 19:54:00 Tester: Tate Lang  
 Time Test Ended: 23:28:45 Unit No: 46  
 Interval: **4546.00 ft (KB) To 4640.00 ft (KB) (TVD)** Reference Elevations: 2992.00 ft (KB)  
 Total Depth: 4640.00 ft (KB) (TVD) 2987.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

## Serial #: 8650 Outside

Press @ Run Depth: psig @ 4547.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.11.19 End Date: 2012.11.19 Last Calib.: 2012.11.19  
 Start Time: 18:02:44 End Time: 23:28:44 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF-Weak surface blow .  
 IS-Dead no return.  
 FF-Dead no blow .  
 FS-Dead no return.



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M w ith skim of oil on top of tool	0.02

## 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 Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 49841

**DST#: 4**

ATTN: Phil Askey

Test Start: 2012.11.19 @ 18:04:22

## Tool Information

Drill Pipe:	Length: 4407.00 ft	Diameter: 3.80 inches	Volume: 61.82 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	74000.00 lb
			<u>Total Volume: 62.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	4546.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	94.00 ft				
Tool Length:	114.00 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			4527.00	
Shut In Tool	5.00			4532.00	
Hydraulic tool	5.00			4537.00	
Packer	5.00			4542.00	20.00 Bottom Of Top Packer
Packer	4.00			4546.00	
Stubb	1.00			4547.00	
Recorder	0.00	8675	Inside	4547.00	
Recorder	0.00	8650	Outside	4547.00	
Perforations	26.00			4573.00	
Change Over Sub	1.00			4574.00	
drill Pipe	62.00			4636.00	
change Over Sub	1.00			4637.00	
Bullnose	3.00			4640.00	94.00 Bottom Packers & Anchor

**Total Tool Length: 114.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mull Drilling Comp. INC.

**11-17s-32w Scott KS**

1700 N Waterfront PKWAY  
Wichita KS 67206

**Schmitt-County #1-11**

Job Ticket: 49841

**DST#: 4**

ATTN: Phil Askey

Test Start: 2012.11.19 @ 18:04:22

## 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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	100%M with skim of oil on top of tool	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

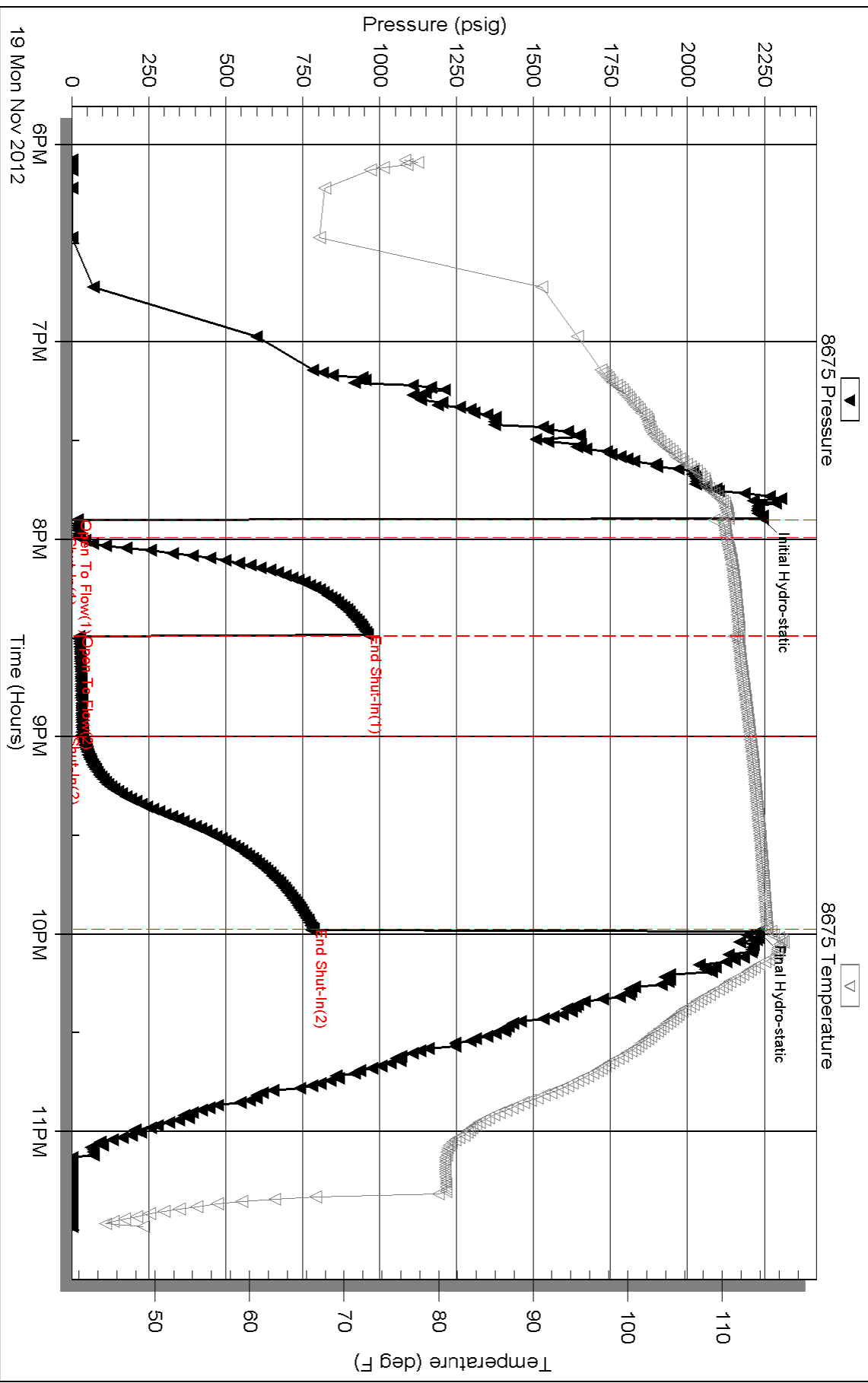
Laboratory Name:

Laboratory Location:

Recovery Comments:



### Pressure vs. Time

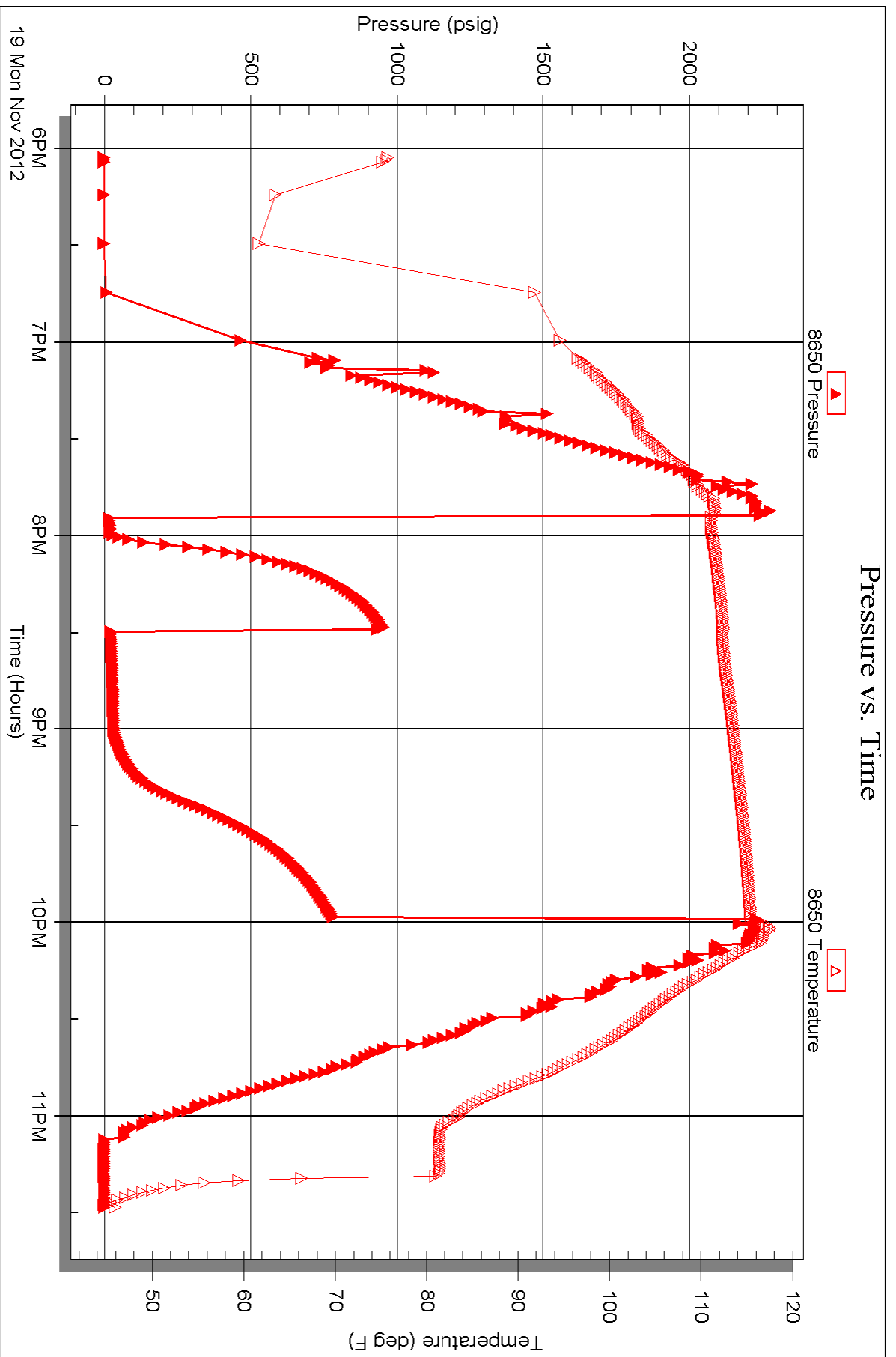


Serial #: 8650

Outside Mull Drilling Comp. INC.

Schmitt-County #1-11

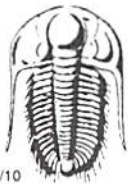
DST Test Number: 4



Triobite Testing, Inc

Ref. No: 49841

Printed: 2012.11.23 @ 14:17:10



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **49838**

4/10

Well Name & No. Schmitt-County Unit # 1-11 Test No. 1 Date 11-17-12  
 Company Mull Drilling Comp. INC Elevation 2992 KB 2987 GL  
 Address 1700 Waterfront PKWay Wichita KS 67206  
 Co. Rep / Geo. Dhill Askey Rig WW Rig # 10  
 Location: Sec. 11 Twp. 17S Rge. 32W Co. Scott State KS

Interval Tested 4263-4295 Zone Tested Lasing 5+K  
 Anchor Length 32 Drill Pipe Run 4126 Mud Wt. 8.9  
 Top Packer Depth 4259 Drill Collars Run 124 Vis 51  
 Bottom Packer Depth 4263 Wt. Pipe Run 0 WL 6.4  
 Total Depth 4295 Chlorides 200 ppm System LCM 1#

Blow Description IF - Weak surface blow died in 3 1/2 mins.  
ISI - Dead No return blow.  
FF - Dead No blow.  
FSL - Dead No return blow.

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>Mud with oil spots</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

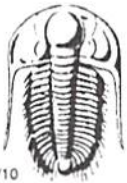
Rec Total 1 BHT 115 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2105  Test 1250 T-On Location 10:05  
 (B) First Initial Flow 15  Jars T-Started 11:52  
 (C) First Final Flow 16  Safety Joint T-Open 13:49  
 (D) Initial Shut-In 1142  Circ Sub N/C T-Pulled 15:54  
 (E) Second Initial Flow 18  Hourly Standby T-Out 17:30  
 (F) Second Final Flow 26  Mileage 26 R/T 40.30 Comments  
 (G) Final Shut-In 1107  Sampler  
 (H) Final Hydrostatic 2052  Straddle  Ruined Shale Packer

Initial Open 5  Shale Packer  Ruined Packer  
 Initial Shut-In 30  Extra Packer  Extra Copies  
 Final Flow 30  Extra Recorder Sub Total 0  
 Final Shut-In 60  Day Standby Total 1290.30  
 Accessibility MP/DST Disc't  
 Sub Total 1290.30

Approved By Phil Askey Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 49839

Well Name & No. Schmitt - County Unit #1H Test No. 2 Date 11-18-12  
 Company Mull Drilling Corp. INC. Elevation 2992 KB 2987 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Ahill Askey Rig W&W Rig #10  
 Location: Sec. 11 Twp. 17S Rge. 32W Co. Scott State KS

Interval Tested 4362 4490 Zone Tested Marmaton - Pawnee  
 Anchor Length 128 Drill Pipe Run 4250 Mud Wt. 9.3  
 Top Packer Depth 4358 Drill Collars Run 124 Vis 52  
 Bottom Packer Depth 4362 Wt. Pipe Run 0 WL 7.4  
 Total Depth 4490 Chlorides 3400 ppm System LCM 1#

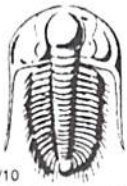
Blow Description IF- Weak surface blow  
ISI- Dead no return,  
FF- Dead no blow,  
FSI Dead no return.

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>Mud With Oil spots</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2206  Test 1250 T-On Location 11:30  
 (B) First Initial Flow 65  Jars \_\_\_\_\_ T-Started 11:47  
 (C) First Final Flow 65  Safety Joint \_\_\_\_\_ T-Open 13:35  
 (D) Initial Shut-In 274  Circ Sub N/C T-Pulled 15:40  
 (E) Second Initial Flow 67  Hourly Standby \_\_\_\_\_ T-Out 17:12  
 (F) Second Final Flow 68  Mileage 26 R/T 40.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 276  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2137  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 5  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1290.30  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1290.30

Approved By Phil Askey Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **49840**

Well Name & No. Schmitt - County Unit #4-11 Test No. 3 Date 11-19-12  
 Company Mull Drilling Comp INC. Elevation 2992 KB 2987 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Phill Astley Rig WW Rig #10  
 Location: Sec. 11 Twp. 17S Rge. 32E Co. Scott State KS

Interval Tested 4513 4565 Zone Tested F1 SCOTT - Cherokee  
 Anchor Length \_\_\_\_\_ Drill Pipe Run 4374 Mud Wt. 9.3  
 Top Packer Depth 4509 Drill Collars Run 124 Vis 52  
 Bottom Packer Depth 4513 Wt. Pipe Run 0 WL 7.4  
 Total Depth 4565 Chlorides 3400 ppm System LCM 1#

Blow Description IF - Weak surface blow.  
ISI - Need no flow return.  
FF - Dead No blow.  
FSTI - Dead No Return

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>1</u>	Feet of <u>Mud with Oil spots</u>	%gas	%oil	%water <u>100</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

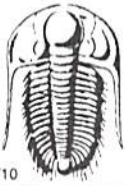
Rec Total 1 BHT 118 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2257  Test 1250 T-On Location 2:15  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 3:03  
 (C) First Final Flow 26  Safety Joint \_\_\_\_\_ T-Open 4:56  
 (D) Initial Shut-In 64  Circ Sub N/C T-Pulled 7:01  
 (E) Second Initial Flow 25  Hourly Standby \_\_\_\_\_ T-Out 8:35  
 (F) Second Final Flow 26  Mileage 26 R/T 40.30 Comments \_\_\_\_\_  
 (G) Final Shut-In 74  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2201  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_

Initial Open 5  Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Shut-In 60  Day Standby \_\_\_\_\_ Total 1290.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1290.30

Approved By Phill Astley Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 49841

Well Name & No. Schmitt County Unit #1-11 Test No. 4 Date 11-19-12  
 Company Mull Drilling Corp, INC Elevation 2992 KB 2787 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Phil Askey Rig WW Rig #10  
 Location: Sec. 11 Twp. 17S Rge. 32W Co. Scott State KS

Interval Tested 4546 4690 Zone Tested Johnson  
 Anchor Length \_\_\_\_\_ Drill Pipe Run 4407 Mud Wt. 9.3  
 Top Packer Depth \_\_\_\_\_ Drill Collars Run 124 Vis 47  
 Bottom Packer Depth \_\_\_\_\_ Wt. Pipe Run 0 WL 8.0  
 Total Depth 4690 Chlorides 3500 ppm System LCM 1#

Blow Description IF - Weak surface blow  
ISE - Dead no return  
FF - Dead no blow  
FSI - Dead no return

Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>Mud Skin of Oil on top of tool</u>	%gas	%oil	%water	<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 116 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2243</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>17:45</u>
(B) First Initial Flow <u>19</u>	<input type="checkbox"/> Jars _____	T-Started <u>18:04</u>
(C) First Final Flow <u>22</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:56</u>
(D) Initial Shut-In <u>961</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>22:01</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:30</u>
(F) Second Final Flow <u>34</u>	<input checked="" type="checkbox"/> Mileage <u>26 BR/T</u> 40.30	Comments <u>Load Tools</u>
(G) Final Shut-In <u>783</u>	<input type="checkbox"/> Sampler _____	<u>11-20-12</u>
(H) Final Hydrostatic <u>2232</u>	<input type="checkbox"/> Straddle _____	<u>@ 12:00 AM</u>

Initial Open 5  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1290.30  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1290.30

Approved By Phil Askey Our Representative [Signature]

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**PHIL ASKEY**  
PETROLEUM GEOLOGIST



# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Mull Drilling Company, Inc.

LEASE Schmitt-County Unit #1-11

FIELD Wildcat

LOCATION 2616' FWL & 168' FWL

SEC 11 TWPSP 17 S RGE 32 W

COUNTY Scott STATE Kansas

CONTRACTOR WW Drilling Rig #10

SPUD 11/12/12 COMP 11/20/12

RTD 4710' LTD 4711'

MUD UP 3371' TYPE MUD Chemical-Mud Co

SAMPLES SAVED FROM 3900'

DRILLING TIME KEPT FROM 2200'-2400'; 3800'

SAMPLES EXAMINED FROM 3900' TO RTD

GEOLOGICAL SUPERVISION FROM 3750' TO RTD

GEOLOGIST ON WELL Phil Askey, L.G.

## ELEVATIONS

KB 2992'

DF 2990'

GL 2987'

Measurements Are All From KB

CASING SURFACE 858' @ 224' w/ 1655x5

PRODUCTION \_\_\_\_\_

ELECTRICAL SURVEYS

Notes: CNL/COI w/ PE  
Micro, Sonic, DIL

## FORMATION TOPS

## LOG

## SAMPLES

Anhydrite 2354 +638 2353 -5

Hedberg 3949 -957 3947 +2

Lawrence 3986 -994 3984 +7

Stokesdale 4270 -1278 4268 flat

B/KC 4361 -1369 4360 flat

Norman 4392 -1400 4390 flat

Et Scott 4524 -1532 4522 +1

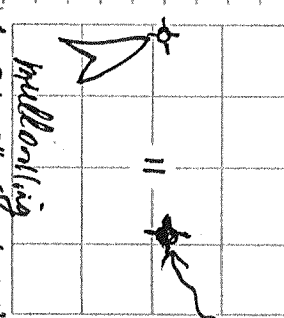
Cherokee Shale 4550 -1558 4548 flat

Tobacco Zone 4590 -1598 4588 flat

Missionary 4653 -1661 4650 flat

ETD/RTD 4711 -1719 4710 flat

Refractometer:  
Mull Drilling Schmitt #1-11



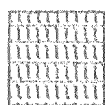
## REMARKS

All formations/zones with sample shows were DST'd with negative results. After review and evaluation of the E-logs, it was decided to plug and abandon the Schmitt-County Unit #1-11.

*Phil Askey, L.G.*

Well API # 15-171-20919

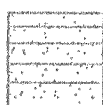
## LEGEND



Anhydrite



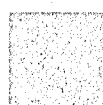
Salt



Sandstone



Shale



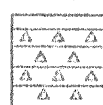
Carb. sh



Limestone



Ool. Lime



Chert



Dolomite

SCALE " = 100'

DRILLING TIME IN MINUTES

PER FOOT  
Rate of Penetration Increases

5" 10" 15" 20" 25"

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

LOG 7763

DEPTH

2300

50

Anhydrite 2353 (+639)

E-log 2354 (+638)

B/Anhy 2374 (+618)

E-log 2373 (+619)

3800

50

Samples: 10' wet & dry

3900' - RTD v. good samples

Rig data:

WOB 38 K RPM 85  
SPM 60 PP 1000 #

Bit data:

Smith F-27 7 7/8" 46.6 ft/hr  
224' - 4710' 96 1/4 hrs

Dev Surveys:

1 1/2° @ 224'  
1 1/2° @ 4295'  
1 1/2° @ 4710'

LS, offsh-wh Hqy con, firm  
VF-fid, smth-dky, drump.  
sent yds. vuggy ppt @ NS  
SH, rd-down. 99

Pipe Strap @ 4295'

Board: 4317.30'

strap: 4315.57'



3900

Pipe short 1.73' (no core made)

LS, com. tan. Hgybrn, firm-fine,  
some wh-chky, some foss, xls-ppt-ph.  $\phi$ ,  
NS, 3pc chit, tan foss

Mud-co data @ 3920'

LS, com, firm -obfr, v.f.f./a-gran,  
much wh-chky, fine-grained, ppt-ph.  $\phi$

WT 8.9 VLS 51 WL 6.4 Solids 4.9%  
pH 11.0 Cl 2,000ppm Lcm 1# YP-18

SH, gy-gyp, rd-vdbrn, v.f.f., calc,  
s.lyc. fossils, v.f.f./a-gran, NS

DSTs: 4 by Trilobite testing

LS, tan offsh gy-gybrn, firm-dns,  
micro-fs/a, fine foss, sm chky, NS

SH, blk, fs, carb

LS, tan gy-gybrn, firm-dns  
micro-fs/a, some foss, NS

SH, H-mgy, some stly-vigran, p-gran,  
calc, NS  
some rd-vdbrn, some stly, kdkq-blk

LS, offsh term, firm, much wh-chky,  
micro-v.f.f./a, fine tan-foss, foss,  
scat xls  $\phi$ , NS 5pc chit, gy, NS

LS, com tan, firm-dns, v.f.f./a, kdkq,  
scat xls-vdbrn -ool -mc  $\phi$ , fr blk  
spid 'add' sh, some blk edge str, NS, 0,  
no doc

much wh-chky

LS, com offsh, firm, much wh-chky,  
v.f.f./a, scat xls  $\phi$ , fr ool-vdbrn, NS  
CFS: LS, com, offsh, firm, v.f.f./a, wh-chky, fr  
much wh-chky

SH, dkgy-blk, gy rdbrn

LS, gy-gybrn, firm-dns, micro-fs/a,  
scat-foss-dk, slarg, v.f.f./a, NS  
some Hgy rd-vdbrn slrg-ns, firm, v.f.f./a, NS

LS, offsh com-tan, firm, much wh-chky,  
v.f.f./a, some xls  $\phi$ , NS

LS, tan com, firm-dns, micro-fs/a,  
fine wh-chky, fr foss,  
scat xls  $\phi$ , NS fr dkgy, dns,  
micro-fs/a.

30-40% LS, wh-chky

SH, dkgy, blk

LS, tan Hbrn, mostly dns, micro-v.f.f./a  
v.f.f./a, NS  
3pc tan LS, fine dns, v.f.f./a, NS

(FSS) LS, com, firm-dns, firm, scat xls  $\phi$ , NS  
some foss, fr gy-gybrn, dns

LS, a/a, much wh-chky, NS

LS, tan com, firm-dns, q. ool  $\phi$ ,  
scat xls  $\phi$ , NS

Heelner 3947 (-955)

E-log 3949 (-957)

Lansing 3984 (-992)

E-log 3986 (-994)

50

4000

50

4100



50

4200

50

4300

Spark Sh. 4268 (-1276)  
E-log 4270 (-1278)

Hushpuckney Sh. 4307  
E-log 4309 (-1317)

0.00  
0.01  
0.02  
0.03  
0.04  
0.05  
0.06  
0.07  
0.08  
0.09  
0.10

LS, con tan, drs, micro-*vt*ls,  
N.VIS.  $\phi$ , NS some wh-*chky*, *chky*

LS, con tan *ltgy*, mostly drs, brittle,  
micro-cut *vt*ls, some *cp* *vt*ls, *vt*ls,  
scat *vt*ls, *vt*ls, *vt*ls, NS  
20-25% wh-*chky*

SH, blk, *vt*ls, carb  
some *md* *vt*ls, *vt*ls  
LS, tan *ltgy* *vt*ls, *vt*ls, *vt*ls  
micro-*vt*ls, some *vt*ls - *vt*ls, *vt*ls  
*vt*ls, NS

LS, con tan *vt*ls, *vt*ls, *vt*ls  
*vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
LS, con *vt*ls, *vt*ls, *vt*ls, *vt*ls  
micro-*vt*ls, some *vt*ls, *vt*ls, *vt*ls  
3 pc *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls

SH, blk, *vt*ls, carb

LS, tan *vt*ls, con, *vt*ls, *vt*ls, *vt*ls  
*vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
N.VIS.  $\phi$ , NS, 4 pc wh-*chky*

LS, tan *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
some *vt*ls, 3 pc *vt*ls, *vt*ls, NS  
SH, *vt*ls, blk, *vt*ls, carb

LS, tan con *ltgy* *vt*ls, mostly drs,  
*vt*ls, *vt*ls, *vt*ls, some wh-*chky*  
*vt*ls, *vt*ls, NS

OFF-LS *ltgy* con tan *vt*ls, *vt*ls, *vt*ls  
*vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
scat *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
*vt*ls, *vt*ls, NS

SH, blk, *vt*ls, carb  
4270-80, LS off *vt*ls *ltgy* tan, *vt*ls,  
drs, *vt*ls, *vt*ls, *vt*ls, 3 pc *vt*ls,  
con-*vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
fine 2 pc blk *vt*ls, *vt*ls, *vt*ls, *vt*ls  
con *vt*ls, *vt*ls, 2 pc *vt*ls, *vt*ls, *vt*ls  
dk *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
drs *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
some wh-*chky*, *vt*ls, *vt*ls, *vt*ls

LS, con, *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
much wh-*chky*, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
scat *vt*ls, *vt*ls, 13 pc *vt*ls, *vt*ls, *vt*ls  
CFS: LS, *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
3 pc *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls

LS, *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
*vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
SH, blk, *vt*ls, carb

LS, tan *vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
micro-*vt*ls, *vt*ls, *vt*ls, *vt*ls, *vt*ls  
foss, *vt*ls, *vt*ls, NS  
scat *vt*ls, *vt*ls, *vt*ls, *vt*ls, NS

LS, con *ltgy* *vt*ls, *vt*ls, *vt*ls, *vt*ls  
mostly drs, micro-*vt*ls, *vt*ls, *vt*ls

DST #1 4263'-4295'

Times: 5"-30"-90"-60"

1st open: wk surface blow died in 3 1/2"

2nd open: No blow

Rec: 1' mud w/ oil spots

IFP 15-16 # ISIP 1142 #

FFP 18-26 # F5IP 1107 #

BHT 115°F

Mud-Ca data @ 4295'

WT 9.3 VIS 52 WL 6.4 Slide 6.5%

pH 10.5 CL 2,500ppm LCM 1# YP 16

50  
4400  
50  
4500  
50

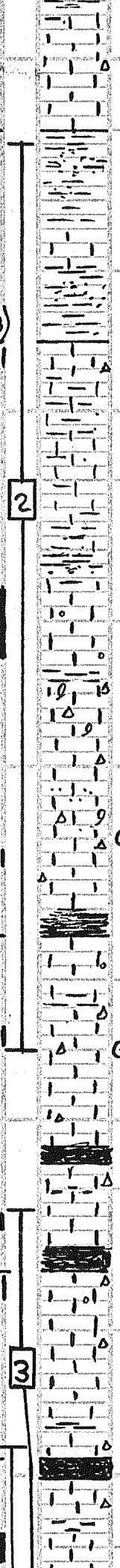
B/KC 4360 (-1368)  
E-log 4361 (-1369)

Marathon 4390 (-1398)  
E-log 4392 (-1400)

Pawnee 4474 (-1482)  
E-log 4475 (-1483)

Ft. Scott 4522 (-1530)  
E-log 4524 (-1532)

Cher. Sh. 4548 (-1556)  
E-log 4550 (-1558)



some wh-chky, arg imp, blk-ble, br,  
p. xlv, NS  
2 pc. quartz, spherulites  
NS

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

LS, tan, offwh, gy-gubon, fm-dns,  
sm shchky, arg imp, to ss, pth, NS  
micro-fels

DST #2 4362' - 4490'

Times: 5"-30"-30"-60"

1st open: wk surface blow

2nd open: No blow

Rec: 1' mud w/ oil spots

IFP 65-65# 15IP 274#

FPP 67-68# FSIP 276#

AHT -

mud: Co data @ 4490'

WT 9.3 VIS 52 WL 7.4 Solids 6.4%

pth 10.5 CL 3,400ppm LCM 1# YP 19

DST #3 4513' - 4565'

Times: 5"-30"-30"-60"

1st open: wk surface blow

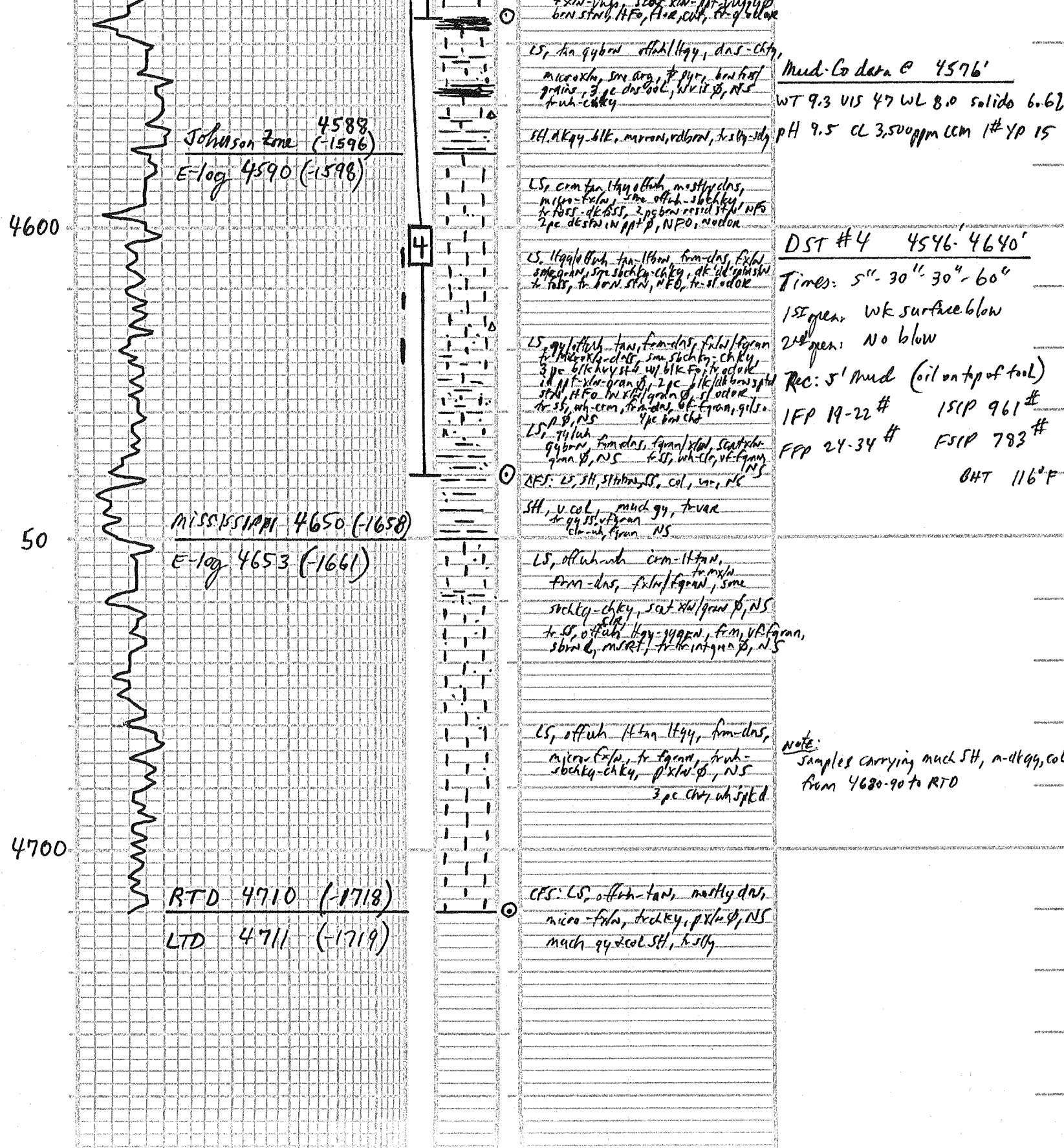
2nd open: No blow

Rec: 1' mud w/ oil spots

IFP 23-26# 15IP 64#

FPP 25-26# FSIP 74#

AHT 1180'



DEPTH	DRILLING TIME Minutes/Foot	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS
	5" 10" 15" 20" 25"			
	Rate of Penetration Increases			

LOCATION

2616' ENL & 168' FWL  
SEC 11 TWP 17S RNG 32W

COUNTY

Scott

STATE

Kansas