



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1245661  
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: \_\_\_\_\_



1245661

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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

<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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Gore Oil Company
Well Name	Ordway C 10
Doc ID	1245661

All Electric Logs Run

Microresistivity
Dual Compensated Porosity
Dual Induction
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Gore Oil Company
Well Name	Ordway C 10
Doc ID	1245661

Tops

Name	Top	Datum
Anhydrite	1519	+617
B/Anhydrite	1548	+588
Topeka	3112	-976
Oread	3264	-1125
Heebner Shale	3324	1188
Toronto	3342	-1206
Lansing	3364	-1228
BKC	3584	1448
Conglomerate	3606	1470
Simpson	3686	1550
Arbuckle	3708	1572



## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757  
Wichita KS 67202

ATTN: Chuck Sshmaltz

### **Ordway C #10**

### **16-10s-18w Rooks,KS**

Start Date: 2014.11.05 @ 18:50:00

End Date: 2014.11.06 @ 07:32:30

Job Ticket #: 62476                      DST #: 1

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

Printed: 2014.11.13 @ 14:25:14



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62476

**DST#: 1**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 18:50:00

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:41:15

Time Test Ended: 07:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

**Interval: 3240.00 ft (KB) To 3318.00 ft (KB) (TVD)**

Reference Elevations: 2137.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

2130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6772 Inside**

Press@RunDepth: 66.32 psig @ 3309.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.05 End Date: 2014.11.06

Last Calib.: 2014.11.05

Start Time: 18:50:05 End Time: 07:32:30

Time On Btm: 2014.11.05 @ 23:37:00

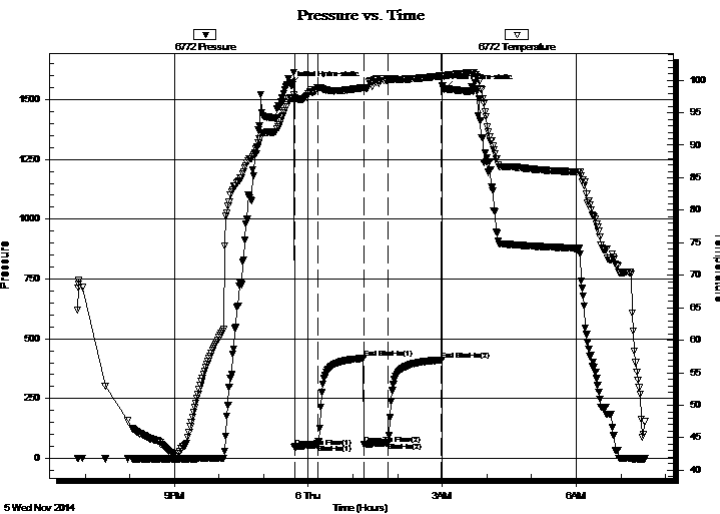
Time Off Btm: 2014.11.06 @ 03:03:30

TEST COMMENT: I.F. - 30 - Weak surface blow died in 1 min

I.S.I. - 60 - No blow back

F.F. - 30 - No blow

F.S.I. - 60 - No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1560.36	97.25	Initial Hydro-static
5	47.42	97.32	Open To Flow (1)
37	58.58	98.82	Shut-In(1)
98	418.96	98.86	End Shut-In(1)
99	59.00	98.79	Open To Flow (2)
131	66.32	100.10	Shut-In(2)
202	411.56	100.66	End Shut-In(2)
207	1545.35	100.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud With Few Oil Specs 100%M	0.05

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62476

**DST#: 1**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 18:50:00

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:41:15

Time Test Ended: 07:32:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 72

**Interval: 3240.00 ft (KB) To 3318.00 ft (KB) (TVD)**

Reference Elevations: 2137.00 ft (KB)

Total Depth: 3318.00 ft (KB) (TVD)

2130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8167 Outside**

Press@RunDepth: psig @ 3309.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.05

End Date: 2014.11.06

Last Calib.: 2014.11.05

Start Time: 18:50:05

End Time: 07:32:30

Time On Btm:

Time Off Btm:

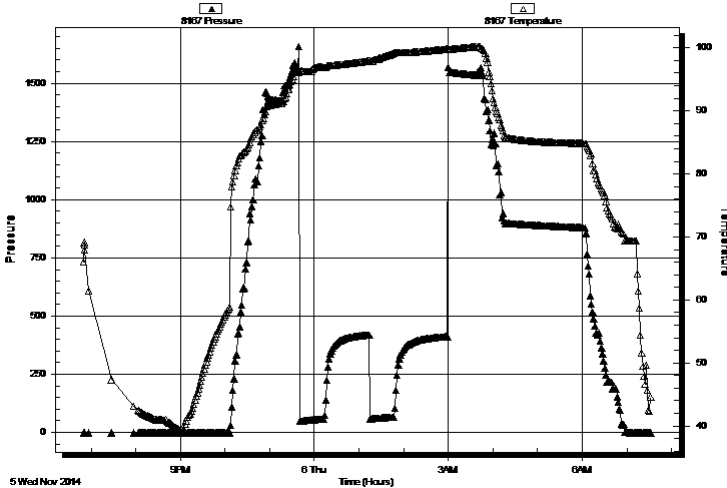
TEST COMMENT: I.F. - 30 - Weak surface blow died in 1 min

I.S.I. - 60 - No blow back

F.F. - 30 - No blow

F.S.I. - 60 - No blow back

Pressure vs. Time



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud With Few Oil Specs 100%M	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62476

**DST#: 1**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 18:50:00

## Tool Information

Drill Pipe:	Length: 3117.00 ft	Diameter: 3.80 inches	Volume: 43.72 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: 30000.00 lb
Drill Collar:	Length: 126.00 ft	Diameter: 2.25 inches	Volume: 0.62 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 44.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3240.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	78.00 ft			
Tool Length:	101.00 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			3218.00	
Shut In Tool	5.00			3223.00	
Hydraulic tool	5.00			3228.00	
Safety Joint	3.00			3231.00	
Packer	5.00			3236.00	23.00 Bottom Of Top Packer
Packer	4.00			3240.00	
Stubb	1.00			3241.00	
Perforations	3.00			3244.00	
Change Over Sub	1.00			3245.00	
Drill Pipe	63.00			3308.00	
Change Over Sub	1.00			3309.00	
Recorder	0.00	6772	Inside	3309.00	
Recorder	0.00	8167	Outside	3309.00	
Perforations	6.00			3315.00	
Bullnose	3.00			3318.00	78.00 Bottom Packers & Anchor

**Total Tool Length: 101.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62476

**DST#: 1**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 18:50:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	Mud With Few Oil Specs 100%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

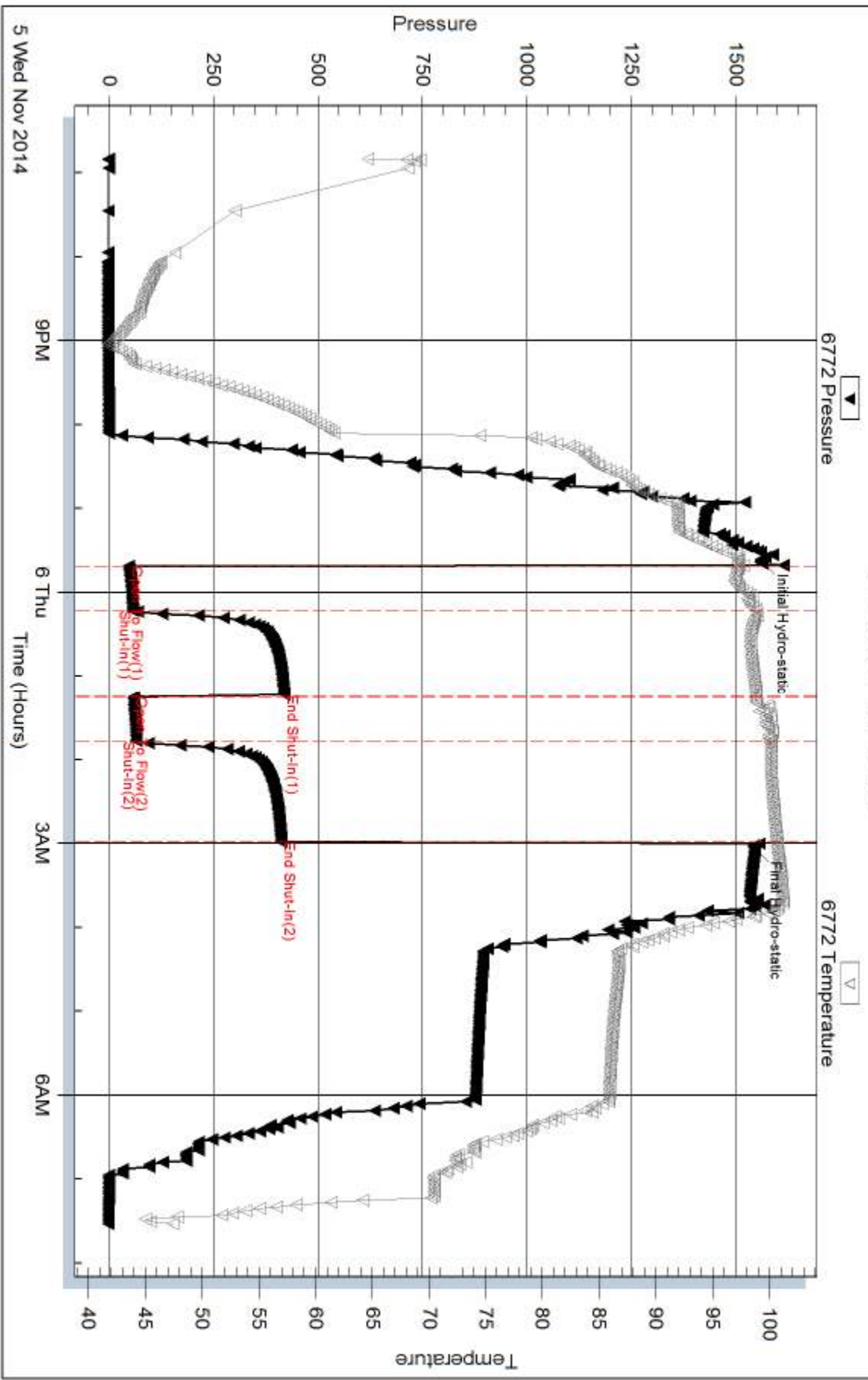
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

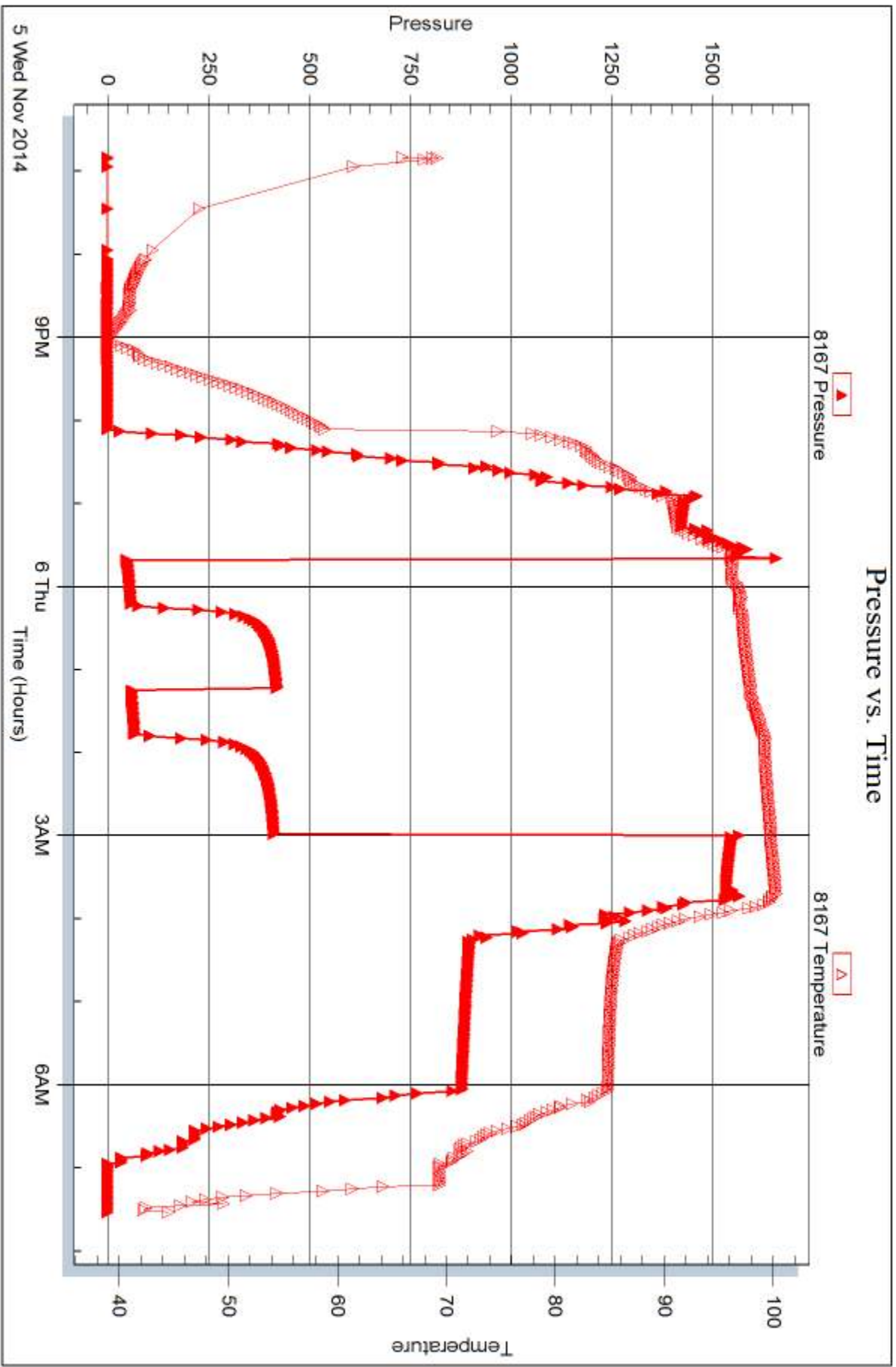


Serial #: 8167

Outside Gore Oil Company

Ordw ay C#10

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62476

Printed: 2014.11.13 @ 14:25:15



## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757  
Wichita KS 67202

ATTN: Chuck Sshmaltz

### **Ordway C #10**

#### **16-10s-18w Rooks,KS**

Start Date: 2014.11.05 @ 23:37:00

End Date: 2014.11.06 @ 08:49:15

Job Ticket #: 62477                      DST #: 2

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

Printed: 2014.11.13 @ 14:24:43

Gore Oil Company  
16-10s-18w Rooks,KS  
Ordway C #10  
DST # 2  
LKC " A - F"  
2014.11.05



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62477

**DST#: 2**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 23:37:00

## GENERAL INFORMATION:

Formation: **LKC " A - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:39:15

Time Test Ended: 08:49:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

**Interval: 3321.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Reference Elevations: 2137.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

2130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6772**

**Inside**

Press@RunDepth: 105.90 psig @ 3451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.05

End Date:

2014.11.06

Last Calib.:

2014.11.06

Start Time: 23:37:05

End Time:

08:49:15

Time On Btm:

2014.11.06 @ 02:38:00

Time Off Btm:

2014.11.06 @ 06:53:45

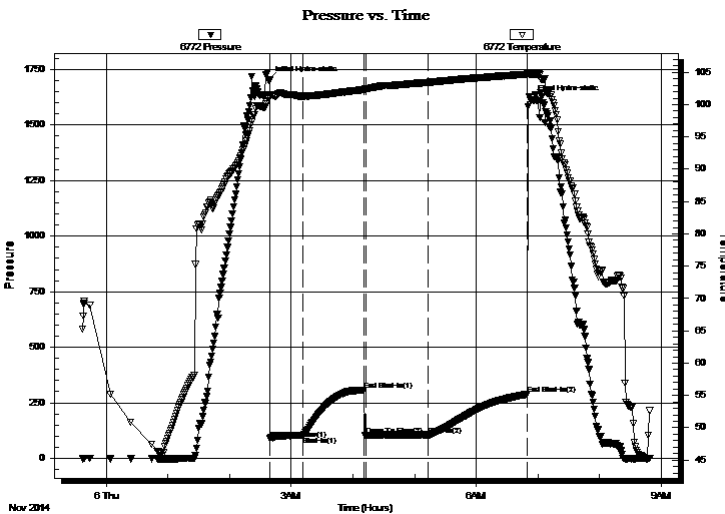
TEST COMMENT: I.F. - 30 - Weak blow built to 4"

I.S.I. - 60 - No blow back

F.F. - 60 - No blow

F.S.I.- 90 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1702.31	101.26	Initial Hydro-static
2	87.88	101.07	Open To Flow (1)
34	99.85	101.31	Shut-In(1)
93	306.32	102.32	End Shut-In(1)
95	101.81	102.46	Open To Flow (2)
155	105.90	103.42	Shut-In(2)
252	287.86	104.70	End Shut-In(2)
256	1613.76	104.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	MUD 100%	0.15

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62477

**DST#: 2**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 23:37:00

### GENERAL INFORMATION:

Formation: **LKC " A - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:39:15

Time Test Ended: 08:49:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

Interval: **3321.00 ft (KB) To 3460.00 ft (KB) (TVD)**

Reference Elevations: 2137.00 ft (KB)

Total Depth: 3460.00 ft (KB) (TVD)

2130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8167 Outside**

Press@RunDepth: psig @ 3451.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.05

End Date:

2014.11.06

Last Calib.:

2014.11.06

Start Time: 23:37:05

End Time:

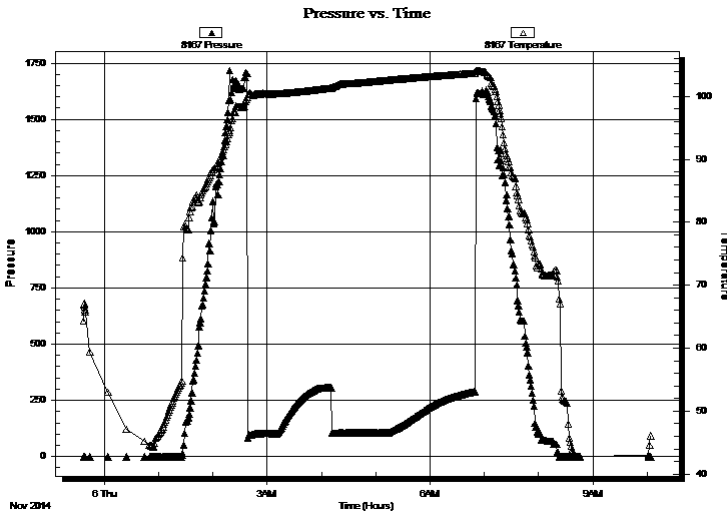
10:04:00

Time On Btm:

Time Off Btm:

TEST COMMENT: I.F. - 30 - Weak blow built to 4"  
I.S.I. - 60 - No blow back  
F.F. - 60 - No blow  
F.S.I.- 90 - No blow back

### PRESSURE SUMMARY



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

### Recovery

### Gas Rates

Length (ft)	Description	Volume (bbl)
30.00	MUD 100%	0.15

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62477

**DST#: 2**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 23:37:00

## Tool Information

Drill Pipe:	Length: 3244.00 ft	Diameter: 3.80 inches	Volume: 45.50 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: 30000.00 lb
Drill Collar:	Length: 63.00 ft	Diameter: 2.25 inches	Volume: 0.31 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3321.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	139.00 ft			
Tool Length:	162.00 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			3299.00	
Shut In Tool	5.00			3304.00	
Hydraulic tool	5.00			3309.00	
Safety Joint	3.00			3312.00	
Packer	5.00			3317.00	23.00 Bottom Of Top Packer
Packer	4.00			3321.00	
Stubb	1.00			3322.00	
Perforations	3.00			3325.00	
Change Over Sub	1.00			3326.00	
Drill Pipe	124.00			3450.00	
Change Over Sub	1.00			3451.00	
Recorder	0.00	6772	Inside	3451.00	
Recorder	0.00	8167	Outside	3451.00	
Perforations	6.00			3457.00	
Bullnose	3.00			3460.00	139.00 Bottom Packers & Anchor

**Total Tool Length: 162.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62477

**DST#: 2**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.05 @ 23:37:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MUD 100%	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

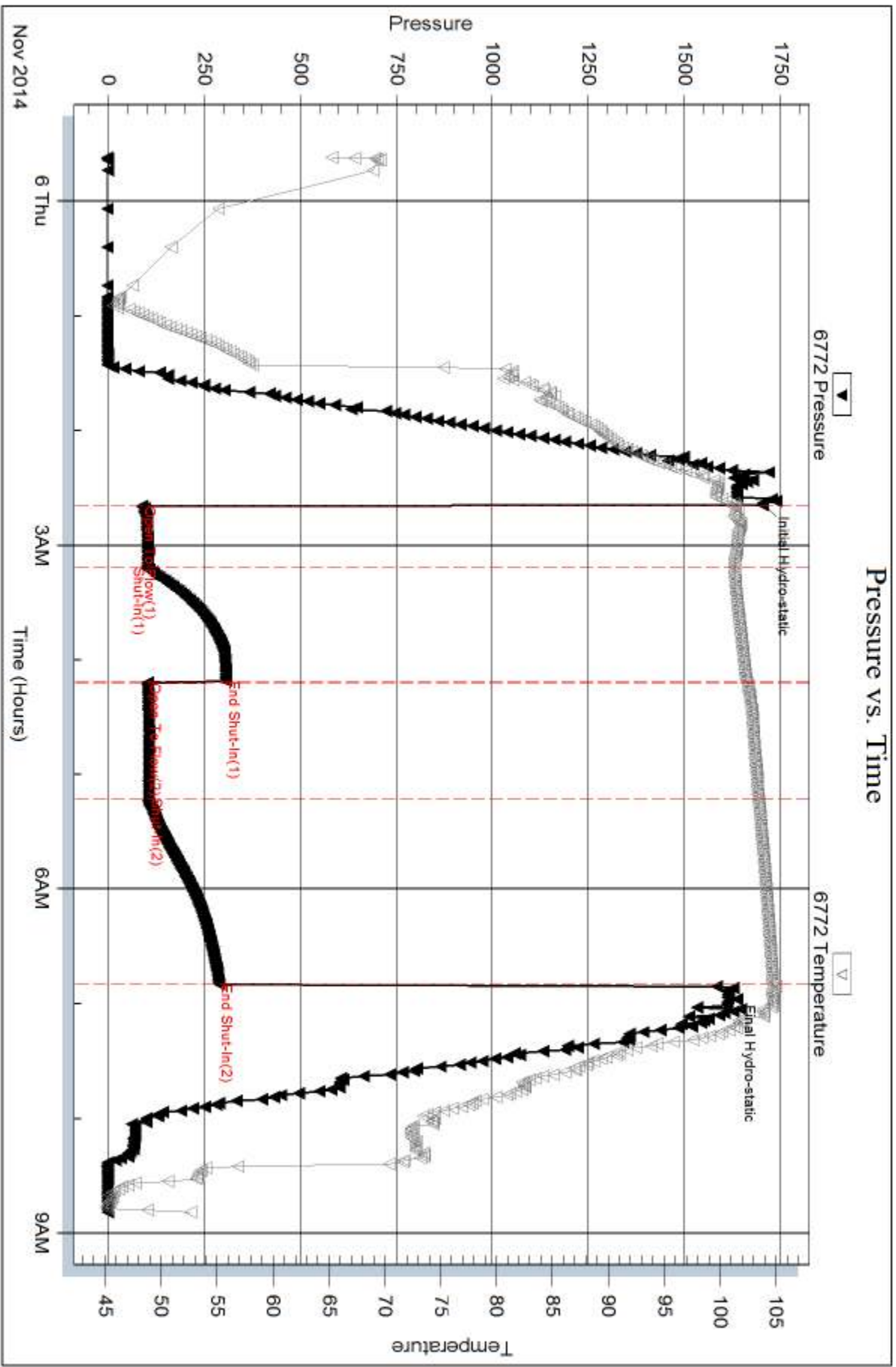
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



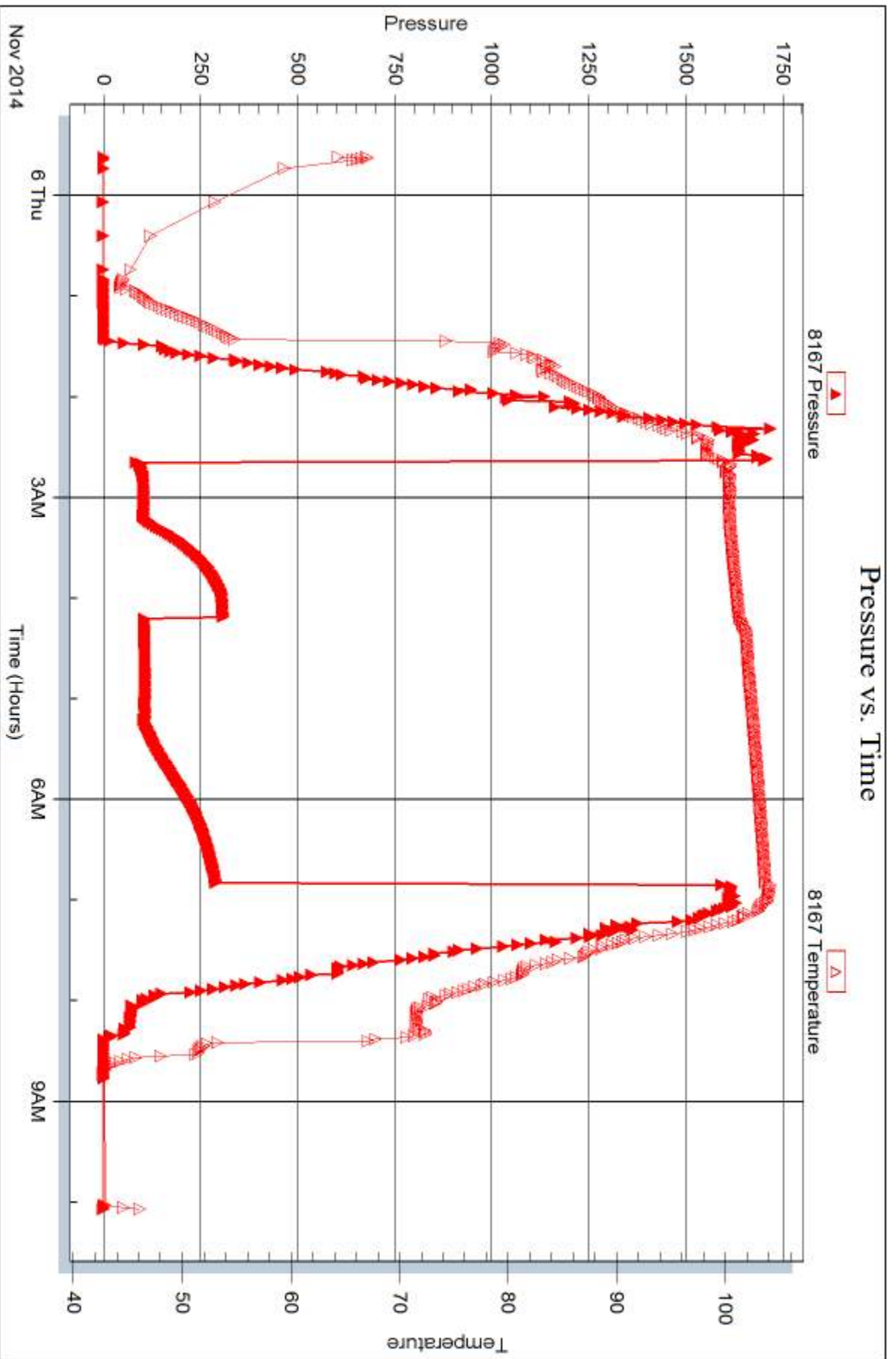


Serial #: 8167

Outside Gore Oil Company

Ordw ay C#10

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 62477

Printed: 2014.11.13 @ 14:24:44



## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757  
Wichita KS 67202

ATTN: Chuck Sshmaltz

### **Ordway C #10**

### **16-10s-18w Rooks,KS**

Start Date: 2014.11.08 @ 08:54:00

End Date: 2014.11.08 @ 18:15:45

Job Ticket #: 62478                      DST #: 3

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

Printed: 2014.11.13 @ 14:24:22

Gore Oil Company  
16-10s-18w Rooks,KS  
Ordway C #10  
DST # 3  
LKC H - L  
2014.11.08



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62478

**DST#: 3**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.08 @ 08:54:00

## GENERAL INFORMATION:

Formation: **LKC H - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:28:30

Time Test Ended: 18:15:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

**Interval: 3381.00 ft (KB) To 3494.00 ft (KB) (TVD)**

Reference Elevations: 2137.00 ft (KB)

Total Depth: 3494.00 ft (KB) (TVD)

2130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8167**

**Outside**

Press@RunDepth: 90.08 psig @ 3480.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.08

End Date:

2014.11.08

Last Calib.:

2014.11.08

Start Time: 08:54:05

End Time:

18:15:45

Time On Btm:

2014.11.08 @ 11:28:00

Time Off Btm:

2014.11.08 @ 15:53:00

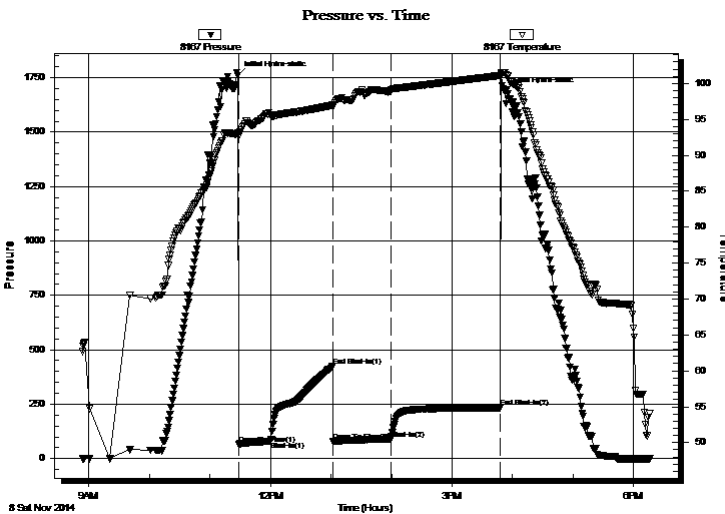
TEST COMMENT: I.F. - 30 - Weak blow built to 2"

I.S.I. - 60 - No blow back

F.F. - 60 - Weak blow built to 1 1/2"

F.S.I. - 90 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1759.46	93.14	Initial Hydro-static
1	64.68	92.60	Open To Flow (1)
32	79.07	95.59	Shut-In(1)
94	423.75	96.96	End Shut-In(1)
95	79.38	96.81	Open To Flow (2)
152	90.08	99.00	Shut-In(2)
260	233.53	101.11	End Shut-In(2)
265	1686.17	101.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD 100%	0.30

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62478

**DST#: 3**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.08 @ 08:54:00

## Tool Information

Drill Pipe:	Length: 3265.00 ft	Diameter: 3.80 inches	Volume: 45.80 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: 30000.00 lb
Drill Collar:	Length: 126.00 ft	Diameter: 2.25 inches	Volume: 0.62 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 46.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3381.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	113.00 ft			
Tool Length:	136.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3359.00	
Shut In Tool	5.00			3364.00	
Hydraulic tool	5.00			3369.00	
Safety Joint	3.00			3372.00	
Packer	5.00			3377.00	23.00 Bottom Of Top Packer
Packer	4.00			3381.00	
Stubb	1.00			3382.00	
Perforations	3.00			3385.00	
Change Over Sub	1.00			3386.00	
Drill Pipe	93.00			3479.00	
Change Over Sub	1.00			3480.00	
Recorder	0.00	6772	Inside	3480.00	
Recorder	0.00	8167	Outside	3480.00	
Perforations	11.00			3491.00	
Bullnose	3.00			3494.00	113.00 Bottom Packers & Anchor

**Total Tool Length: 136.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62478

**DST#: 3**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.08 @ 08:54:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MUD 100%	0.295

Total Length: 60.00 ft      Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

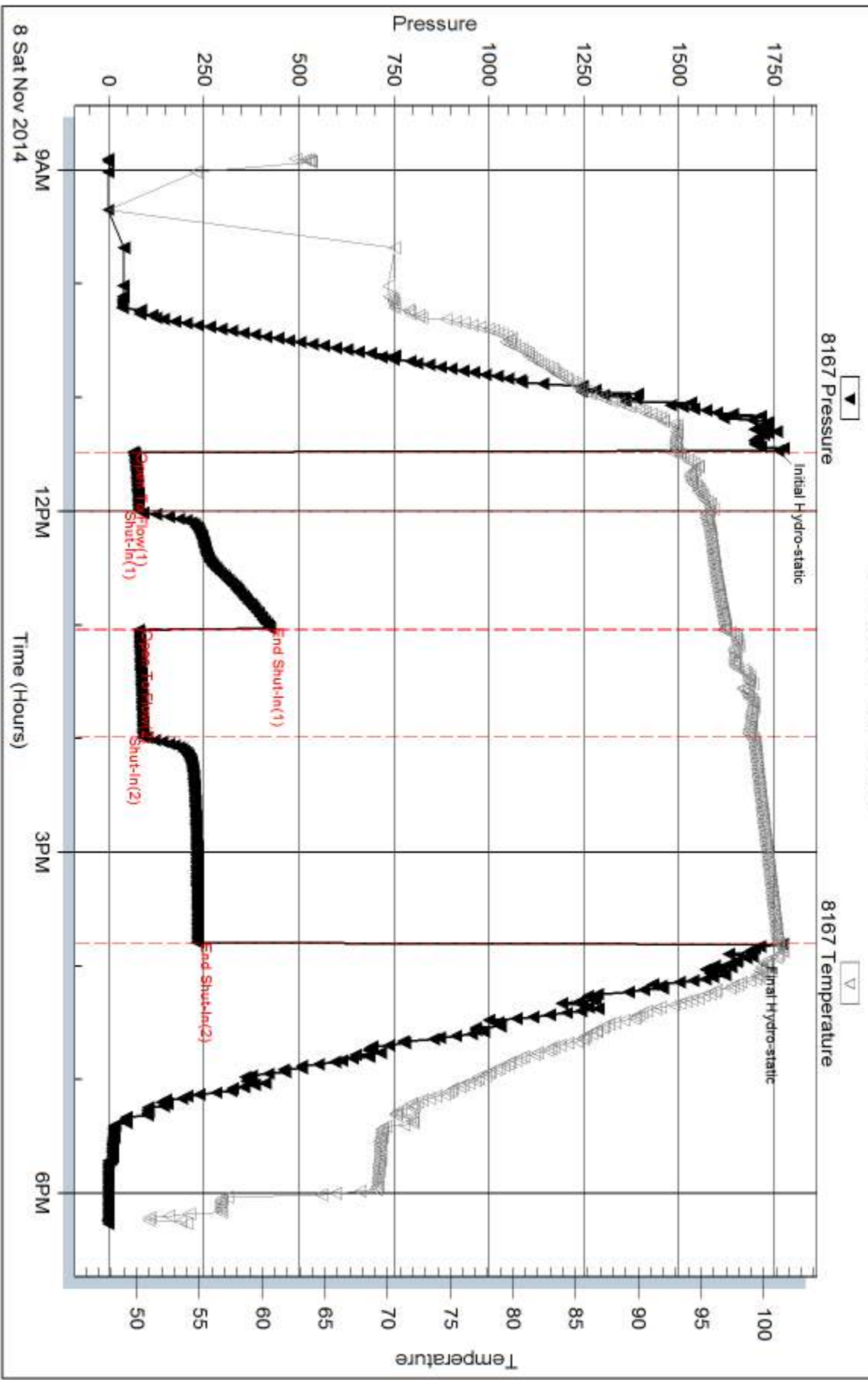
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time





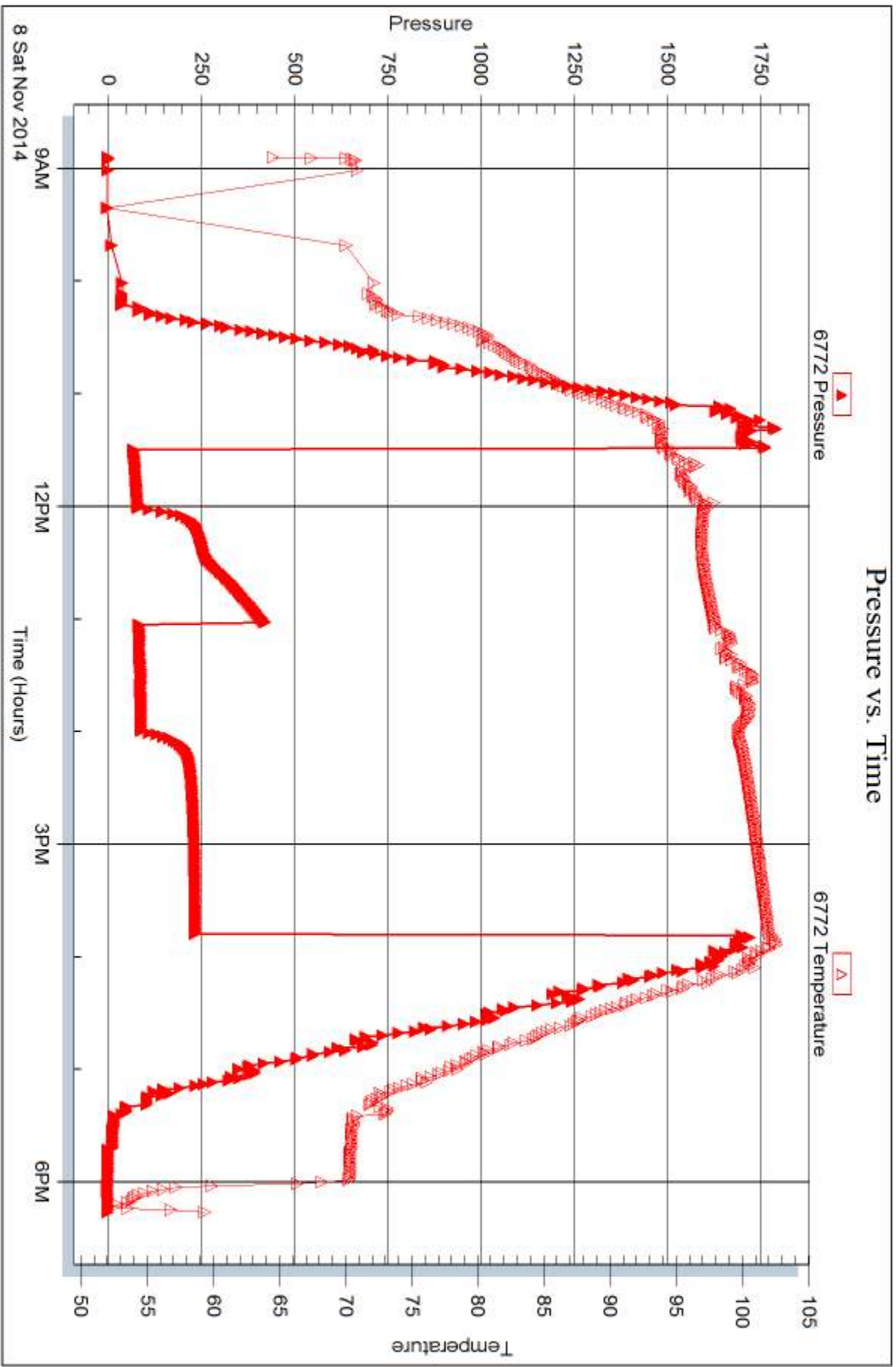
Serial #: 6772

Inside

Gore Oil Company

Ordw ay C#10

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 62478

Printed: 2014.11.13 @ 14:24:23



## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757  
Wichita KS 67202

ATTN: Chuck Sshmaltz

### **Ordway C #10**

### **16-10s-18w Rooks,KS**

Start Date: 2014.11.09 @ 09:09:00

End Date: 2014.11.09 @ 17:39:30

Job Ticket #: 62479                      DST #: 4

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

Printed: 2014.11.13 @ 14:23:44



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62479

**DST#: 4**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.09 @ 09:09:00

## GENERAL INFORMATION:

Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:53:45

Time Test Ended: 17:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

**Interval: 3642.00 ft (KB) To 3692.00 ft (KB) (TVD)**

Reference Elevations: 2137.00 ft (KB)

Total Depth: 3692.00 ft (KB) (TVD)

2130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6772**

**Inside**

Press@RunDepth: 56.10 psig @ 3679.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.09

End Date:

2014.11.09

Last Calib.:

2014.11.09

Start Time: 09:09:05

End Time:

17:39:29

Time On Btm:

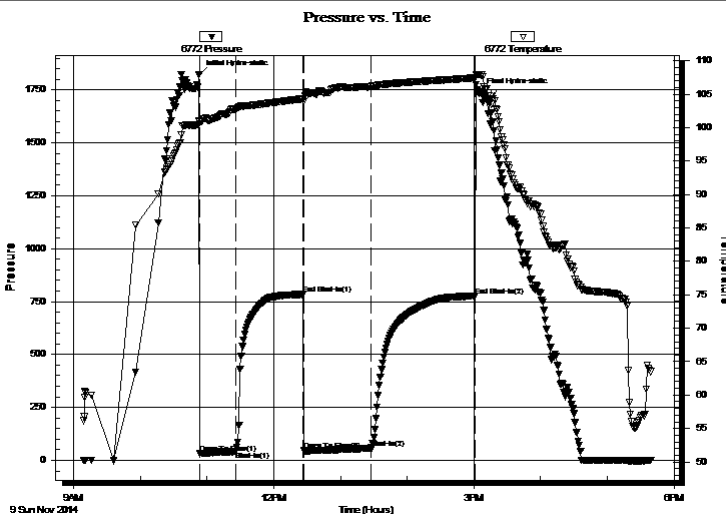
2014.11.09 @ 10:53:00

Time Off Btm:

2014.11.09 @ 15:05:30

**TEST COMMENT:** I.F. - 30 - Weak blow built to 3/4"  
I.S.I. - 60 - No blow back  
F.F. - 60 - Weak blow built to 1/2"  
F.S.I. - 90 - No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1822.11	101.12	Initial Hydro-static
1	31.99	100.83	Open To Flow (1)
33	43.19	102.85	Shut-In(1)
93	783.82	104.31	End Shut-In(1)
94	48.48	103.91	Open To Flow (2)
155	56.10	106.15	Shut-In(2)
248	776.76	107.42	End Shut-In(2)
253	1739.72	107.90	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	S,O,S,M, 100%M W/ FEW OIL SPECS	0.25

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62479

**DST#: 4**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.09 @ 09:09:00

## Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.80 inches	Volume: 50.26 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: 30000.00 lb
Drill Collar:	Length: 63.00 ft	Diameter: 2.25 inches	Volume: 0.31 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3642.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	50.00 ft			
Tool Length:	73.00 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			3620.00	
Shut In Tool	5.00			3625.00	
Hydraulic tool	5.00			3630.00	
Safety Joint	3.00			3633.00	
Packer	5.00			3638.00	23.00 Bottom Of Top Packer
Packer	4.00			3642.00	
Stubb	1.00			3643.00	
Perforations	3.00			3646.00	
Change Over Sub	1.00			3647.00	
Drill Pipe	31.00			3678.00	
Change Over Sub	1.00			3679.00	
Recorder	0.00	6772	Inside	3679.00	
Recorder	0.00	8167	Outside	3679.00	
Perforations	10.00			3689.00	
Bullnose	3.00			3692.00	50.00 Bottom Packers & Anchor

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62479

**DST#: 4**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.09 @ 09:09:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 51.00 sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	S,O,S,M, 100%M W/ FEW OIL SPECS	0.246

Total Length: 50.00 ft      Total Volume: 0.246 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

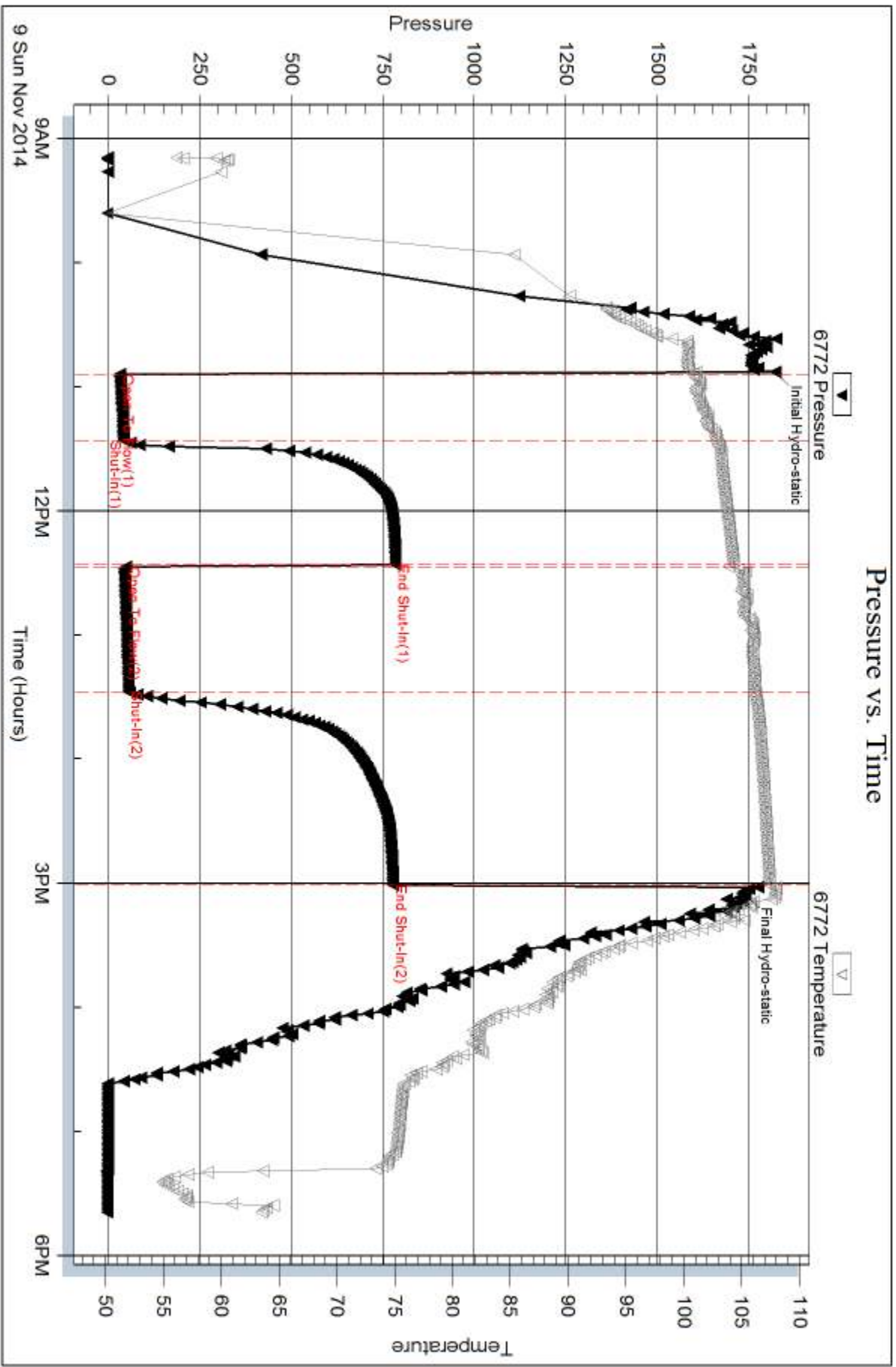
Serial #: 6772

Inside

Gore Oil Company

Ordw ay C#10

DST Test Number: 4

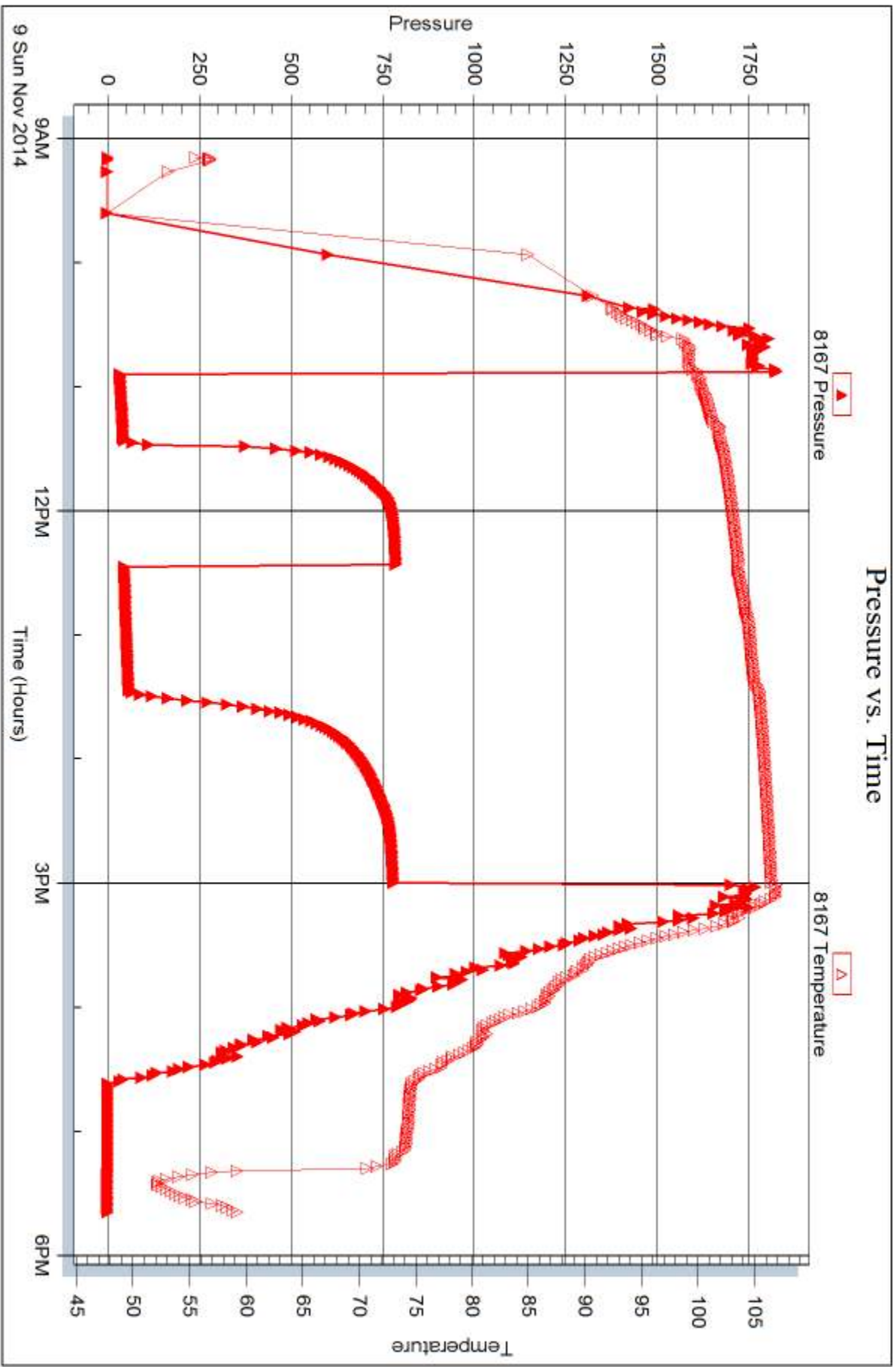


Serial #: 8167

Outside Gore Oil Company

Ordw ay C#10

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 62479

Printed: 2014.11.13 @ 14:23:45





## DRILL STEM TEST REPORT

Prepared For: **Gore Oil Company**

PO Box 2757  
Wichita KS 67202

ATTN: Chuck Sshmaltz

### **Ordway C #10**

#### **16-10s-18w Rooks,KS**

Start Date: 2014.11.10 @ 03:17:00

End Date: 2014.11.10 @ 20:10:00

Job Ticket #: 62480                      DST #: 5

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

Printed: 2014.11.13 @ 14:23:29



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62480

**DST#: 5**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.10 @ 03:17:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:30:45

Time Test Ended: 20:10:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 72

**Interval: 3644.00 ft (KB) To 3717.00 ft (KB) (TVD)**

Reference Elevations: 2137.00 ft (KB)

Total Depth: 3717.00 ft (KB) (TVD)

2130.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 6772 Inside**

Press@RunDepth: 618.04 psig @ 3709.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.11.10

End Date: 2014.11.10

Last Calib.: 2014.11.10

Start Time: 03:17:05

End Time: 20:10:00

Time On Btm: 2014.11.10 @ 07:28:15

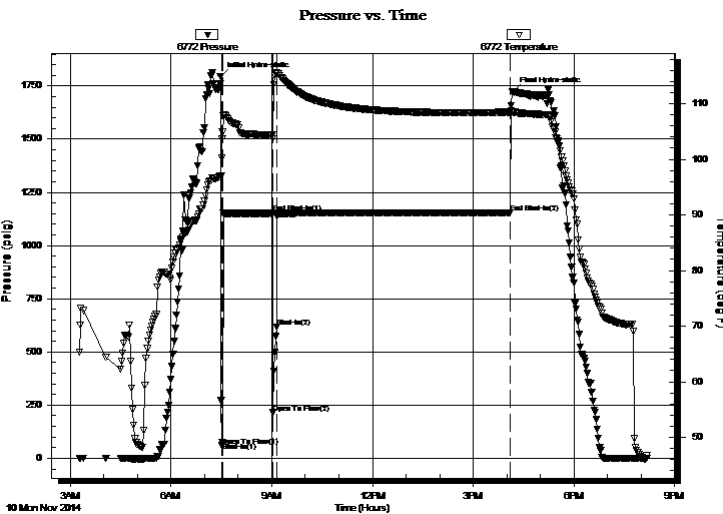
Time Off Btm: 2014.11.10 @ 16:11:45

TEST COMMENT: I.F. - 30 - Fair blow built to 8"

I.S.I. - 60 - No blow back

F.F. - 8 - BOB instantly

F.S.I. - Left rig as instructed by geo.& due to emergency situation.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.19	97.06	Initial Hydro-static
3	58.74	100.18	Open To Flow (1)
4	76.05	104.88	Shut-In(1)
94	1152.41	104.46	End Shut-In(1)
94	214.24	103.73	Open To Flow (2)
101	618.04	115.47	Shut-In(2)
518	1153.49	108.48	End Shut-In(2)
524	1723.22	108.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
882.00	M,C,W, 5%M 95%W	11.80
189.00	MUD	2.65

## Gas Rates

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62480

**DST#: 5**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.10 @ 03:17:00

## Tool Information

Drill Pipe:	Length: 3586.00 ft	Diameter: 3.80 inches	Volume: 50.30 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: 30000.00 lb
Drill Collar:	Length: 63.00 ft	Diameter: 2.25 inches	Volume: 0.31 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 50.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3644.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	73.00 ft			
Tool Length:	96.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3622.00	
Shut In Tool	5.00			3627.00	
Hydraulic tool	5.00			3632.00	
Safety Joint	3.00			3635.00	
Packer	5.00			3640.00	23.00 Bottom Of Top Packer
Packer	4.00			3644.00	
Stubb	1.00			3645.00	
Perforations	1.00			3646.00	
Change Over Sub	1.00			3647.00	
Drill Pipe	61.00			3708.00	
Change Over Sub	1.00			3709.00	
Recorder	0.00	6772	Inside	3709.00	
Recorder	0.00	8167	Outside	3709.00	
Perforations	5.00			3714.00	
Bullnose	3.00			3717.00	73.00 Bottom Packers & Anchor

**Total Tool Length: 96.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Gore Oil Company

**16-10s-18w Rooks,KS**

PO Box 2757  
Wichita KS 67202

**Ordway C #10**

Job Ticket: 62480

**DST#: 5**

ATTN: Chuck Sshmaltz

Test Start: 2014.11.10 @ 03:17:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
882.00	M,C,W, 5%M 95%W	11.798
189.00	MUD	2.651

Total Length: 1071.00 ft

Total Volume: 14.449 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

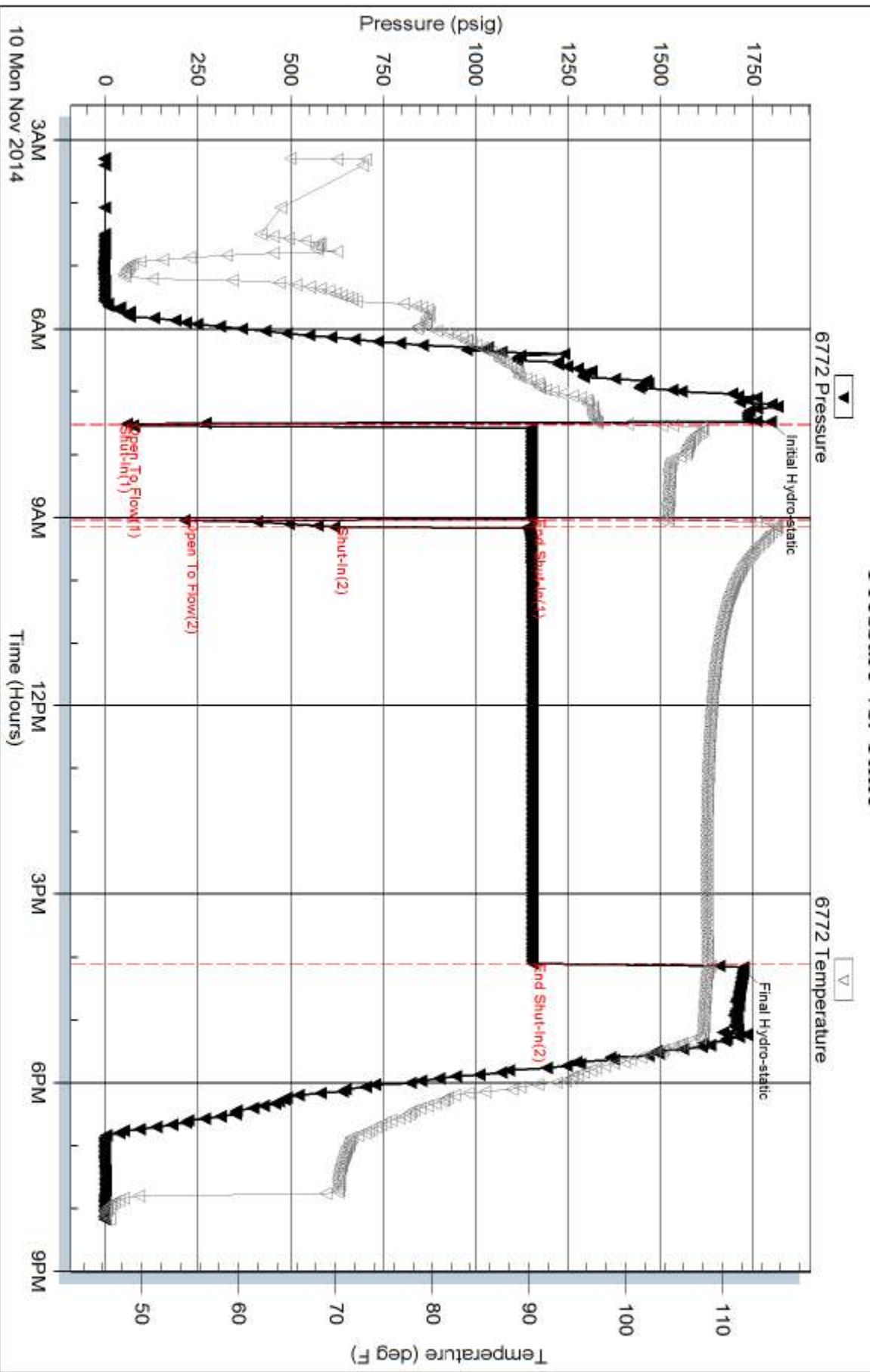
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .45@40

### Pressure vs. Time

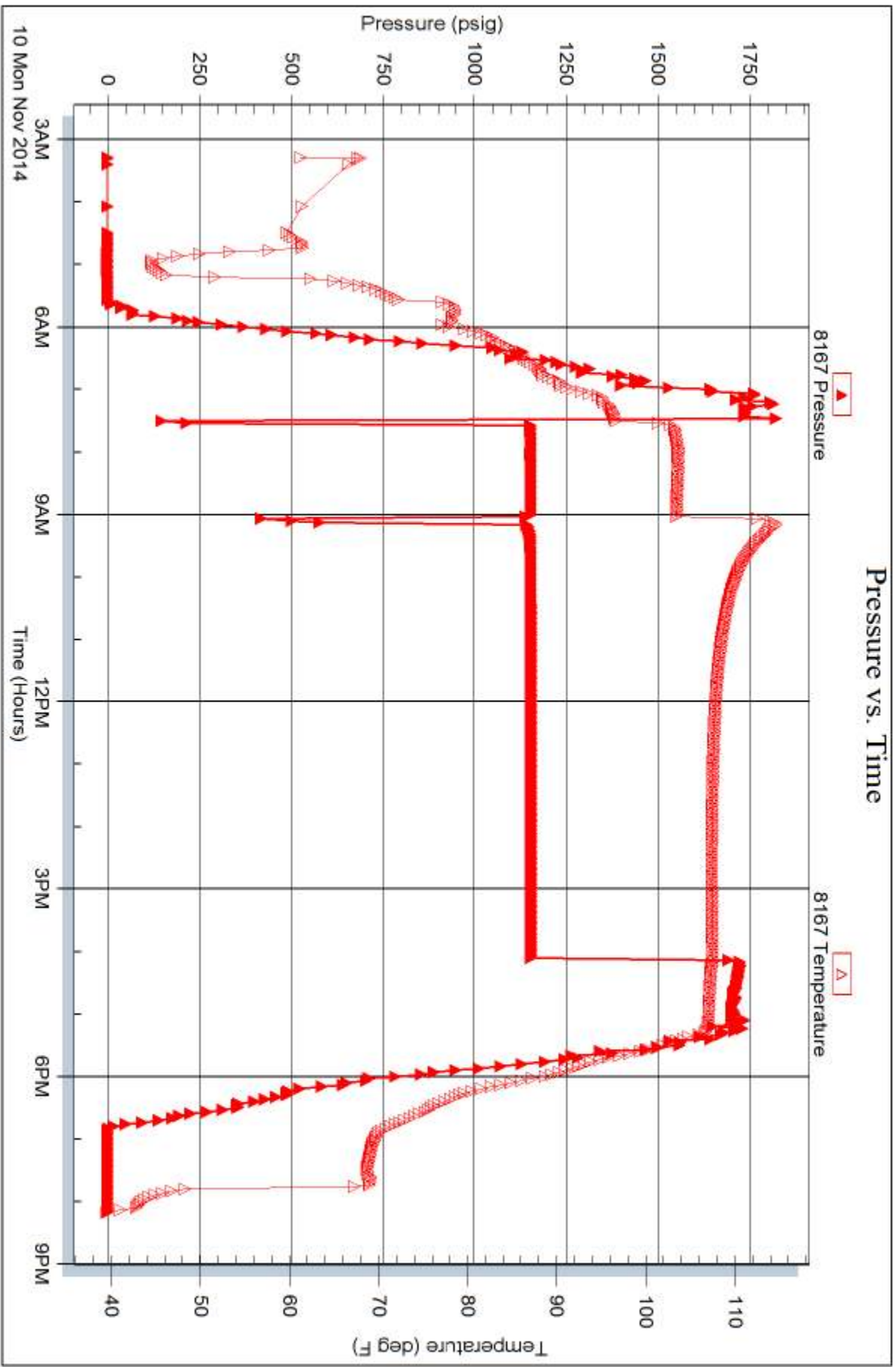


Serial #: 8167

Outside Gore Oil Company

Ordw ay C#10

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 62480

Printed: 2014.11.13 @ 14:23:30



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62476

Well Name & No. ordway C #10 Test No. 1 Date 11-4-14/115  
 Company Gore Oil Company Elevation 2139 KB 2130 GL  
 Address 202 S. St. Francis P.O. Box 2757 Wichita KS. 67202  
 Co. Rep / Geo. Larry M. Jack / Chuck Schmaltz Rig Maverick #102  
 Location: Sec. 16 Twp. 10 S. Rge. 18 W. Co. Rooks. State KS.

Interval Tested 3240-3318 Zone Tested oread  
 Anchor Length 78' Drill Pipe Run 3117' Mud Wt. 8.7  
 Top Packer Depth 3235 Drill Collars Run 126' Vis 60  
 Bottom Packer Depth 3240 Wt. Pipe Run \_\_\_\_\_ WL 8  
 Total Depth 3318 Chlorides 2,500 ppm System LCM 1 1/2

Blow Description I.F-30-W.S.B. Died in min.

ISI-60- No Blow Back  
FF-30- No Blow  
FSI-60- No Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>10'</u>	Feet of <u>Mud with few oil specs</u>	%gas	%oil	%water	<u>100%</u> mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 10' BHT 100.7 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,560  Test 1150 T-On Location 18:00:00  
 (B) First Initial Flow 47  Jars \_\_\_\_\_ T-Started 18:50:00  
 (C) First Final Flow 59  Safety Joint 75 T-Open 00:05:00  
 (D) Initial Shut-In 419  Circ Sub \_\_\_\_\_ T-Pulled 03:05:00  
 (E) Second Initial Flow 59  Hourly Standby \_\_\_\_\_ T-Out 67:50:00  
 (F) Second Final Flow 66  Mileage 50/B.T 77.50 Comments (Light Plant Died  
 (G) Final Shut-In 412  Sampler \_\_\_\_\_ unable to pull test...)  
 (H) Final Hydrostatic 1,545  Straddle \_\_\_\_\_ thank-you"

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_  
 Final Flow 30  Day Standby \_\_\_\_\_  
 Final Shut-In 60  Accessibility \_\_\_\_\_  
 Sub Total 1302.50 Sub Total 1302.50  
 Total 1302.50 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative B. J. [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO.

62477

Well Name & No. Ordway C<sup>#</sup> 10 Test No. 2 Date 11-5-14/11-6  
 Company Gore oil company Elevation 2137 KB 2130 GL  
 Address 2025 St. Francis P.O. Box 2757 Wichita KS. 67202  
 Co. Rep / Geo. Larry M. Jack / Chuck Schmultz. Rig Maverick #102  
 Location: Sec. 16 Twp. 10 - S. Rge. 18 W. Co. ROOKS. State KS.

Interval Tested 3321-3460 Zone Tested hens. A-F  
 Anchor Length 139' Drill Pipe Run 3244 Mud Wt. 9.1  
 Top Packer Depth 3316 Drill Collars Run 63 Vis 60  
 Bottom Packer Depth 3321 Wt. Pipe Run --- WL 8.8  
 Total Depth 3460 Chlorides 2,500 ppm System LCM 1 1/2

Blow Description I.F. 3 1/2" INT. Blow Built to 4"  
I.S.I - 60 - NO B.B.  
F.F - 60 - NO Blow  
F.S.I - 90 - NO B.B.

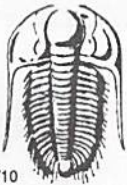
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>30'</u>	Feet of <u>Mud</u>	%gas	%oil	%water	<u>100%</u> mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30' BHT 104.6 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1702  Test 1150 T-On Location 23:20:00  
 (B) First Initial Flow 88  Jars \_\_\_\_\_ T-Started 23:37:00  
 (C) First Final Flow 100  Safety Joint 75 T-Open 02:56:00  
 (D) Initial Shut-In 306  Circ Sub \_\_\_\_\_ T-Pulled 06:56:00  
 (E) Second Initial Flow 102  Hourly Standby \_\_\_\_\_ T-Out 08:49:00  
 (F) Second Final Flow 106  Mileage 50 / R.T. 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 288  Sampler \_\_\_\_\_ (No Problems, Yay)  
 (H) Final Hydrostatic 1614  Straddle \_\_\_\_\_ Thank-you!  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1302.50 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62478

Well Name & No. Ordway C#10 Test No. 3 Date 11-08-14  
 Company Gore Oil Company Elevation 2137 KB 2130 GL  
 Address 202 S. St. Francis P.O. Box 2757 Wichita KS 67202  
 Co. Rep / Geo. Larry M. Jack / Chuck Schmaltz Rig Maverick #102  
 Location: Sec. 18 Twp. 10-S Rge. 18-W Co. Rooks State KS

Interval Tested 3881-3994 Zone Tested hans-(A-L)  
 Anchor Length 113' Drill Pipe Run 3265 Mud Wt. 9.3  
 Top Packer Depth 3476 Drill Collars Run 63 Vis 55  
 Bottom Packer Depth 3981 Wt. Pipe Run --- WL 8.4  
 Total Depth 3494 Chlorides 3,600 ppm System LCM 2

Blow Description I.F.-30-1/2" INT. Blow Built to (2" in 30 min.)  
I.S.I-60-NO B.B.  
E.F.-60-1/4" INT. Blow Built to (1 1/2" in 30 min.)  
F.S.I-90-NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>60</u>	Feet of <u>Mud</u>				<u>100</u> %mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 101.5 Gravity --- API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic 1759  Test 1150 T-On Location 08:20:00  
 (B) First Initial Flow 65  Jars --- T-Started 08:54:00  
 (C) First Final Flow 79  Safety Joint 75 T-Open 11:26:00  
 (D) Initial Shut-In 424  Circ Sub --- T-Pulled 15:26:00  
 (E) Second Initial Flow 79  Hourly Standby --- T-Out 18:15:00  
 (F) Second Final Flow 90  Mileage 50 / R.+ 77.50 Comments (Rig Back Down Made up Perf went Home 11-7) "Thank-You"  
 (G) Final Shut-In 234  Sampler ---  Ruined Shale Packer ---  
 (H) Final Hydrostatic 1,686  Straddle ---  Ruined Packer ---  
 Initial Open 30  Shale Packer ---  Extra Copies ---  
 Initial Shut-In 60  Extra Packer --- Sub Total 0  
 Final Flow 60  Extra Recorder --- Total 1302.50  
 Final Shut-In 90  Day Standby --- MP/DST Disc't ---  
 Sub Total 1302.50  Accessibility ---

Approved By \_\_\_\_\_ Our Representative [Signature]  
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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62479

Well Name & No. Ordway C #10 Test No. 4 Date 11-09-14  
 Company Gore Oil Company Elevation 2137 KB 2130 GL  
 Address 202 S. St. Francis P.O. Box 2757 Wichita KS 67202  
 Co. Rep / Geo. Larry M. Jack / Chuck Schmultz Rig Maverick #102  
 Location: Sec. 16 Twp. 10 - S. Rge. 18 - W. Co. ROOKS. State KS.

Interval Tested 3642 - 3692 Zone Tested \_\_\_\_\_  
 Anchor Length 50 Drill Pipe Run 3583 Mud Wt. 9.4  
 Top Packer Depth 3637 Drill Collars Run 63 Vis 51  
 Bottom Packer Depth 3642 Wt. Pipe Run \_\_\_\_\_ WL 8.8  
 Total Depth 3692 Chlorides 3,000 ppm System LCM 2

Blow Description I.F. - 30 - 1/4" INT. Blow Built to 3/4"  
I.S.I - 60 - No B.B.  
F.F - 60 - W.S.B. Started @ 8min. Built to 1/2"  
F.S.I - 90 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>50'</u>	Feet of <u>S, O, S, M,</u>	%gas	%oil	%water <u>100</u>	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 50 BHT 107.9 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1822  Test 1150 T-On Location 08:50:00  
 (B) First Initial Flow 32  Jars \_\_\_\_\_ T-Started 09:09:00  
 (C) First Final Flow 43  Safety Joint 75 T-Open 10:54:00  
 (D) Initial Shut-In 784  Circ Sub \_\_\_\_\_ T-Pulled 14:54:00  
 (E) Second Initial Flow 48  Hourly Standby \_\_\_\_\_ T-Out 17:39:30  
 (F) Second Final Flow 56  Mileage 50 / R.T. 77.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 777  Sampler \_\_\_\_\_ "Thank-You"  
 (H) Final Hydrostatic 1740  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer 250  Ruined Packer \_\_\_\_\_  
 Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow \_\_\_\_\_ 60  Day Standby \_\_\_\_\_ Total 1552.50  
 Final Shut-In \_\_\_\_\_ 90  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1552.50

Approved By \_\_\_\_\_ Our Representative Bob Hawn

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 62480

Well Name & No. Ordway C#10 Test No. 5 Date 11-10-14  
 Company Gore Oil Company Elevation 2137 KB 2130 GL  
 Address 262 S. St. Francis P.O. Box 2757 Wichita Ks. 67202  
 Co. Rep / Geo. Larry M. Jack / Chuck Schmultz Rig Maverick #102  
 Location: Sec. 16 Twp. 10 - S. Rge. 18 - W. Co. Rooks State KS

Interval Tested 3644 - 3716 Zone Tested Arbuckle  
 Anchor Length 73 Drill Pipe Run 3586 Mud Wt. 9.4  
 Top Packer Depth 3639 Drill Collars Run 63' Vis 51  
 Bottom Packer Depth 3644 Wt. Pipe Run — WL 8.8  
 Total Depth 3716 Chlorides 3000 ppm System LCM 2

Blow Description I.F. - 30 - 3" INT. Blow Built to 8" in 30 min.  
I.S.I. - 60 - No B.B.  
F.F. - 8" B.O.B. INSTANT (Left Rig Due to Geo Request, ↓)  
F.S.I. Emergency Situation

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>189'</u>	Feet of <u>Mud</u>				<u>100% mud</u>
Rec <u>882</u>	Feet of <u>M, C, W</u>				
Rec _____	Feet of _____				
Rec _____	Feet of _____				

Rec Total 1071' BHT 108.5 Gravity — API RW .45 @ 40 ° F Chlorides 30,000 ppm

(A) Initial Hydrostatic 1796  Test 1150 T-On Location Stayed  
 (B) First Initial Flow 59  Jars \_\_\_\_\_ T-Started 03:17:00  
 (C) First Final Flow 76  Safety Joint \_\_\_\_\_ T-Open 07:29:00  
 (D) Initial Shut-In 1,152  Circ Sub \_\_\_\_\_ T-Pulled 16:05:00  
 (E) Second Initial Flow 214  Hourly Standby \_\_\_\_\_ T-Out 20:10:00  
 (F) Second Final Flow 618  Mileage So R.T. 77.50 Comments Had to leave  
 (G) Final Shut-In 1,153  Sampler \_\_\_\_\_ loc. due to emergency  
 (H) Final Hydrostatic 1,723  Straddle \_\_\_\_\_ situation  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies loaded tool  
 Initial Open 30  Extra Packer \_\_\_\_\_ Sub Total on 11-17-0  
 Initial Shut-In 60  Extra Recorder \_\_\_\_\_ Total 3:19  
 Final Flow 8  Day Standby \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In \_\_\_\_\_  Accessibility \_\_\_\_\_  
 Sub Total 1477.50

Approved By \_\_\_\_\_ Our Representative Bill Hanna

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# ALLIED OIL & GAS SERVICES, LLC 055059

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>10-31-14</u>	SEC <u>16</u>	TWR <u>10</u>	RANGE <u>18</u>	CALLED OUT <u>1:30</u>	ON LOCATION <u>2:30</u>	JOB START <u>7:00</u>	JOB FINISH <u>7:30</u>
LEASE <u>Ordway</u>	WELL# <u>C-10</u>	LOCATION <u>Plainville South to AAD</u>		COUNTY <u>Wood</u>	STATE <u>KS</u>		
OLD OR <input checked="" type="radio"/> NEW (Circle one)		<u>West TO RD 15 - STE JMS</u>					

CONTRACTOR Maverick 106  
 TYPE OF JOB 3 7/8 Surface  
 HOLE SIZE 12 1/4 T.D. 263  
 CASING SIZE 9 5/8 DEPTH 261  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. 15'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT  15.6 bbl  
 EQUIPMENT \_\_\_\_\_

OWNER \_\_\_\_\_  
 CEMENT AMOUNT ORDERED 165 sks Common  
290 bbl, 3% CC  
 COMMON 165 sks @ 17.90 2953.50  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL 312 lbs @ .50 156.00  
 CHLORIDE 468 lbs @ 1.10 514.80  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 165 sks @ 2.48 409.20  
 MILEAGE 195 tm @ 2.75 536.25  
 TOTAL 4569.75

PUMP TRUCK CEMENTER Steve D'Amico  
 # 447 HELPER Troy Sardan  
 BULK TRUCK # 712-672 DRIVER Don Price  
 BULK TRUCK # \_\_\_\_\_ DRIVER Steve Steltzer

REMARKS: \_\_\_\_\_

**SERVICE**


DEPTH OF JOB 268  
 PUMP TRUCK CHARGE 1 ea @ 1512.25  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE Light 25 @ 4.40 110.00  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
Heavy Mileage 50 @ 7.70 385.00  
 \_\_\_\_\_ @ \_\_\_\_\_  
Air 826.75 2952.70  
 TOTAL 3079.25

**PLUG & FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL \_\_\_\_\_

CHARGE TO: Gore Oil Co.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME David Yott  
 SIGNATURE 

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 6577.00  
 DISCOUNT 1841.56 (28%)  
 IF PAID IN 30 DAYS  
Not scanned Total  
4735.44

JOB LOG

SWIFT Services, Inc.

DATE 11-21-14 PAGE NO. 1

CUSTOMER Gate Oil Co WELL NO. #10 LEASE Ordway "C" JOB TYPE Port Collar TICKET NO. 26902

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1045							on loc setup trk 2 7/8" x 5 1/2" P.C. @ 1519'
	1110						1200	Test Csg to 1200 <sup>PSI</sup>
	1120	5	5				300	Open P.C., Establish rate & check for blow
	1125	5	0				300	start 135 sks SMD @ 11 <sup>45</sup>
	1140	5	70				300	circ cont raise wgt to 135 <sup>50</sup> sks SMD
	1143	5	86/0				300	End Cement / start Displacement
	1145		8				375	Cement Displaced
	1150							Close P.C.
							1000	Test Csg
	1200	3	0				150	Run 3 jts Reverse out Hole Clean
			20					
								circ 25 sks to pit
								Thank you
								Nick, David E., Austin & Rob

JOB LOG

SWIFT Services, Inc.

DATE: 11-13-14 PAGE NO.

CUSTOMER: Gore Oil Co WELL NO. #10 LEASE: Onaway "MC" JOB TYPE: Longstring TICKET NO. 26844

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1145							on loc w/FE
								RTD 4138'
								5 1/2" x 15.5" x 3830' x 19'
								Turbo 4, 3, 5, 7, 9, 11, 13, 59
								Back 3, 5, 55
								P.L. 55 @ 1519'
	1430							Start FE.
	1540							Break Circ.
	1605						850	Set PKT shoe + circ
	1620	2	7					Plug BH 30sks EA-2
		5	0				200	Start KCl flush 18 bbl
		5	18/0				200	Start Flocheck - 50 gal
		5	12/0				200	Start water 5 bbl
		5	5/0				200	Start EA-2 150sks
	1645		36					End Cement
								Wash PTL
	1655		0				200	Drop L.D. Plug
	1705						250	Start Displacement
	1710		90.7				800 / 1000	Catch Cement
								Land Plug
								Release Pressure
								Float Held
								Thank you
								Nick, David E., Austin, Preston & Tyler

**CHARLES SCHMALTZ**  
CONSULTING GEOLOGIST  
WICHITA, KANSAS

GEOLOGIC REPORT LOG

---

COMPANY: **GORE OIL Co.**

WELL: **ORDWAY 'C' # 10**

FIELD: **WILLIAMS SOUTHEAST**

LOCATION: **1400' FSL & 2140 FWL**

SEC 16 TWP 10S RGE 18W

COUNTY: **ROOKS**

STATE: **KANSAS**

---

MUD COMPANY: **ANDY'S MUD CO.**

CONTRACTOR: **MAVERICK DRILLING CO. RIG # 102**

COMPLETED: **31 OCT 2014**

CASING RECORD: **8 5/8" @ 263'**

SURFACE: **4135**

TOTAL DEPTH DRILL: **4135**

TOTAL DEPTH LOG: **4138**

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FORMATION TOPS & STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION
ANHYDRITE - TOP	1517	1519	+617	-10
ANHYDRITE - BASE	1551	1548	+588	-5
TOPEKA	1551	1548	+588	-5
OREAD	3111	3112	-976	-5
HEEBNER SH	3264	3264	-1125	-1
TORONTO	3324	3324	-1188	-3
LANISING	3342	3342	-1206	-2
BKC	3364	3364	-1228	0
CONGLOMERATE	3605	3606	-1470	0
SIMPSON	3681	3686	-1550	-4
ARBUCKLE	3708	3708	-1572	-6
TOTAL DEPTH	4135	4138	-2002	

---

FORMATION TOPS & STRUCTURAL POSITION

FORMATION TOPS & STRUCTURAL POSITION	DATE	DEPTH
10-31	SPUD	370'
11-1		370'
11-2		1927'
11-3		2612'
11-4		3175'
11-5		3318'
11-6		3460'
11-7		3594'
11-8		3594'
11-9		3460'
11-10		3594'
11-11		3594'
11-12		3692'
11-13		3716'
11-14		4025'
11-15		4135'

No.	Interval	I/FP/Time	ISP/Time	FFP/Time	FSP/Time	IHT-FH	RECOVERY
1	3240 - 3318	47:59#	59:66#	412#	1545#	1560#	10' MUD w/ OIL SPECKS
2	3321 - 3460	88-100#	102-106#	288#	1702#	1702#	30' MUD
3	3481 - 3594	65-79#	79-90#	234#	1759#	1759#	60' MUD
4	3642 - 3692	32-43#	48-56#	777#	1822#	1822#	50' oil specked MUD
5	3644 - 3716	59-76#	214-618#	1153#	1796#	1723#	189' MUD
	ARB	30"	60"	405"	108' F		882' SMCW

NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
1	12 1/4	JZ	RR	263	263	4 1/4
2	7 7/8	JZ	ENPO123	4135	3872	88 3/4

PIPE STRAPS & DEV. SURVEYS

PIPE STRAPS: @ 3318: 1.28 LONG  
@ 263: 1/2" @ 3318: MR  
@ 3460: 1/4" @ 3594: 1/2"

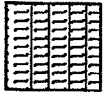
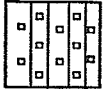



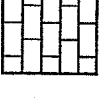
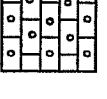
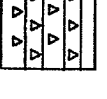
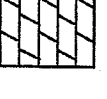
DATE	DEPTH	MUD TYPE	PUMP SIZE	BPS
10-31	SPUD			
11-1	370'	3180	DRLG	8.7
11-2	1927'	3317	DRLG	9.1
11-3	2612'	3460	DRLG	9.2
11-4	3175'	3594	TOH	9.3
11-5	3318'	3594	DST#3	9.3
11-6	3460'	3594	DST#4	9.4
11-7	3594'	3594	DST#5	9.2
11-8	3594'	3594	CTCH	9.3
11-9	3692'	4070	DRLG	9.2
11-10	3716'			
11-11	4025'			
11-12	4135'			

**LEGEND**

Anhydrite	
Salt	
Sandstone	
Shale	
Carb sh	
Limestone	
Ool. Lime	
Chert	
Dolomite	



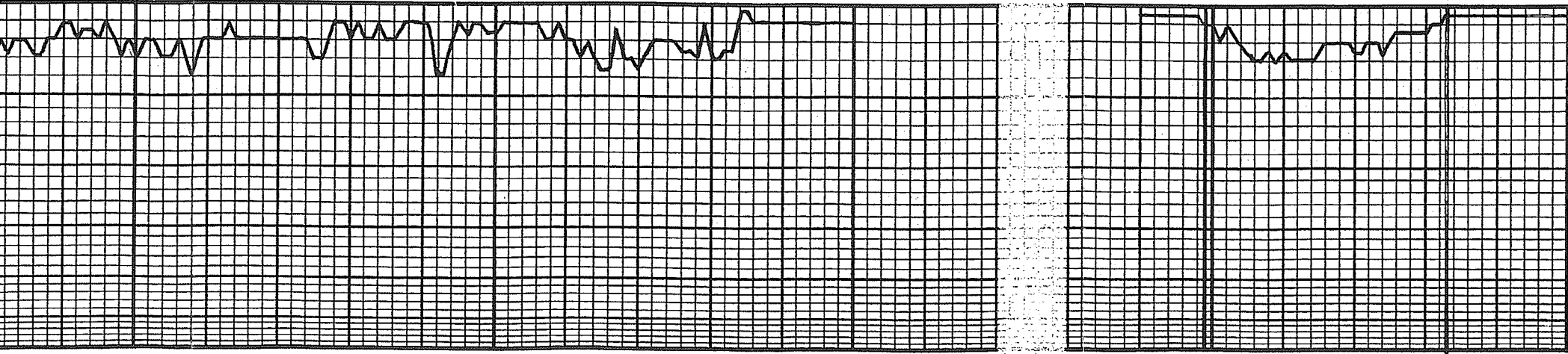
LEGEND

- Anhydrite 
- Salt 
- Sandstone 
- Shale 
- Carb sh 
- Limestone 
- Ool.Lime 
- Chert 
- Dolomite 

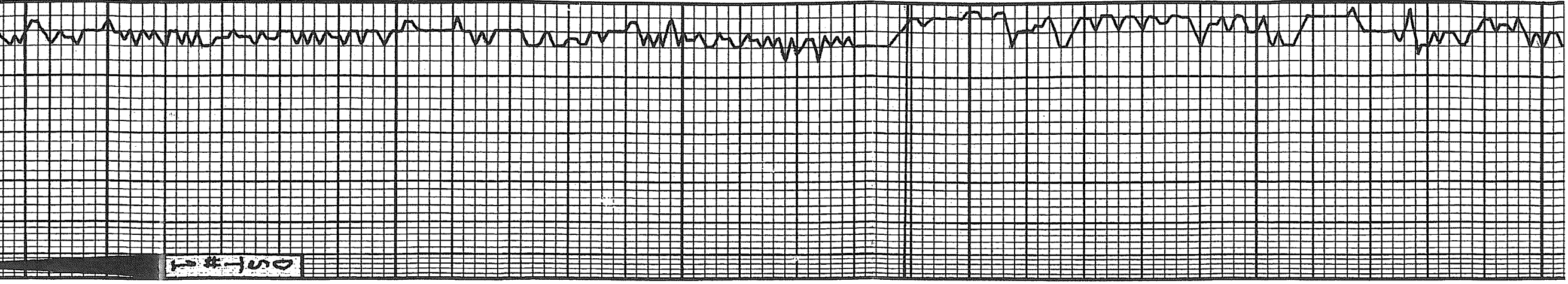
DRILLING TIME IN MINUTES  
PER FOOT

Rate of Penetration Decreases

5" 10" 15" 20" 25"



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
1500				ANHYDRITE - TOP 1517 (+619)
1550				ANHYDRITE - BASE 1551 (+585)
60				
10				
20				
30				
40				
1550		sh: ft. grey, grey, silty in part; few clusters ss: ft. grey, vfn grained, well-sorted, shaley; no vis $\phi$ , NS		
20		sh & ss: as above no show		
10		ls: tan, finxln, granular, sil foss, fr vpr intergranular $\phi$ ; no show: ls: ft. brown, grey, vfn - finxln, foss in pt, no vis $\phi$ , no show		
30		ls: as above, no vis $\phi$ , no show		
40		sh: ft. grey, grey, sil silty - sil sdry; few clusters ft. grey, vfn grained, shaley ss; no vis $\phi$ , no show		
2950		sh & ss: as above		
60				
10		ls: tan, ft. grey, fn-med xln, pellacl in part, sil foss, scat pr interxln $\phi$ , no show: ls: grey, fn-med xln, foss, scat dolo cement, sil shaley, no vis $\phi$ no show		
80		as above w/ few pcs grey brown, vfn finxln, shaley dolomite, ls & scat shaley dolo; as above		
90		ls: tan, brown, same grey, fn-med xln, granular in part, v sil foss, few pcs w/ pr intergranular $\phi$ , NS		
3000		ls: as above, w/ ls: grey, med - vfn xln, dense; few pcs dk grey dolo sh		
10		ls: tan, brown, grey-brown, framed foss in part, mottled, no vis $\phi$ , NS		



3000	few pcs w/ pr intergranular $\phi$ N.S.
10	ls: as above, w/ ls: grey, micro- vfn xthn, dense; few pcs dk grey dolo sh
20	ls: tan, brown, grey-brown, fr-med foss in part, mottled, no vis $\phi$ , N.S.
30	ls: as above, w/ ls: brown, detrital, foss, w/ shaley v-fnxthn dolomite cement, no vis $\phi$ , no show
40	sh: lt. grey, grey, sil silty in part
50	ls: tan, lt. brown, grey, fr-med xthn, sil foss, mottled, no vis $\phi$ , no show
60	ls: as above, w/ sh: lt. grey, grey, sil silty - sandy
70	sh: lt. grey, grey, sil sandy, few pcs ss: lt. grey, vfn-grained, well-sorted, shaley, no vis $\phi$ , no show
80	sh & ss as above, w/ grey shaley dolo w/ included ls & foss fragments
90	ls: tan, grey, fr-med xthn granular, sil foss, sil dolomitic, no vis $\phi$ , N.S.
3100	ls: as above, w/ sh: lt. grey, grey, silty, sandy, micaceous
10	sh: as above
20	ls: tan, offwh/lt. grey, fr-med xthn, pelletal, mottled, no vis $\phi$ , N.S.
30	ls: dk grey, microxthn, dense
40	ls: brown, grey, vfn-med xthn, sil foss, no vis $\phi$ , no show
50	ls: as above, sil foss, w/ sh laminations in scat pcs, no show
60	ls: offwh, tan, brown, fr-med xthn, sil foss, calcitic in part, ep. scat pcs w/ dr. interxthn $\phi$ , no show
70	sh: grey, dk grey
80	ls: brown, grey, vfn-xthn, sil foss, dense
90	sh: lt. grey, grey, sil silty, micaceous, few pcs grey, dolomitic, sh w/ foss fragments
3200	ls: tan, brown, fr-med xthn, sil foss, some mottled, no vis $\phi$ , no show
10	ls: offwh, tan, grey, fr - mostly med xthn, foss, pelletal, no vis $\phi$ , N.S.
20	sh: grey, w/ ls frags included, sh/ls: finely laminated, ls: fragments w/ grey & brown, v-fnxthn, dolomite matrix
30	as above, w/ ls: brown, med xthn, sil calcitic, no vis $\phi$ , no show, sh grey
40	sh: grey, dolomitic in part, ls: lt. grey, greenish-grey (shaley), vfn-fnxthn, scat ls inclusions.
50	ls: tan, grey, brown, vfn-fnxthn, dense
60	ls: as above, w/ few pcs ls: brown, med xthn, granular, no vis $\phi$ , no show
70	ls: tan, fr-med xthn, no vis $\phi$ , ls: brown, grey, fr-med xthn, detrital, foss, dolo matrix, no vis $\phi$ , no show
80	ls: as above, interbedded sh, sil foss frags w/ sh matrix
90	ls: brown, grey, vfn-fnxthn, dense
3250	sh: dk grey, few pcs black
60	ls: brown, grey, vfn-xthn, dense

**TOPEKA**  
3111 (-975)

**OREAD**  
3264 (-1128)

**DST # 1**  
(3240 - 3318)  
3D - 60 - 3D - 60  
ICP: WR BLOW DIED IN 1"  
FP: NO FLOW  
**RECOVERED:**  
10' MUD w/ OIL SPKS  
HSP: 1560 - 1545  
FP: 47-59/59-66  
SIP: 419 - 412  
BHT: 100 ° F

OREAD (-1128)

grey, fn. medxtn, detrital foss, chld matrix: no vis  $\emptyset$  no show

ls: as above; interbedded sh, ls & foss frags w/ sh matrix

ls: brown, grey, vfn. fnxtn, dense

sh: dk grey, few pcs black

ls: brown, grey, vfn. xtn, dense

ls: tan, brown, grey-brown, vfn. fnxtn, slt foss, dense.

ls: dk brown, brown, fnxtn, dense. ls: grey med xtn, mottled slt foss, fr pr inter-xtn  $\emptyset$ , no show; few pcs ls: tan, fn-xtn, granular; scat pr - fr for inter granular  $\emptyset$ ; 3-4 pcs/frag w/ pr - fr st w/ scat, vssfd, no odor

ls: tan, lt brown, fn. med, xtn, slt foss, no vis  $\emptyset$ , no show,  $\Delta$  brown fresh, opaque

ls: as above

sh: dk grey, black

ls: tan, lt brown, grey, vfn. fnxtn, dense

sh: lt - dk grey, some pale green w/ few ls inclusions; few pcs brown

ls: tan, vfn. fnxtn, slt ool, vpr - pr inter-xtn  $\emptyset$ , vry fn vuggy  $\emptyset$ , scat pr - few pcs fr st w/ scat. Few DPs FD & slt ool sheen on wtr after break; no odor

sh: green, grey, some brown;

calc in part w/ scat ls inclusions.

ls: off wh, tan, lt brown, fn. scat med xtn, slt ool, slt foss, vpr interool  $\emptyset$ , vry pr spotty st; 2 pcs w/ more ppt FD, no odor.

ls: brown, grey, micro-fnxtn, w/ grey sh

ls: off wh tan, lt grey, micro - vfn xtn chalky in part, no vis  $\emptyset$  no show

ls: as above, w/ sh: lt grey, green, calc in part

ls: tan, grey, fn. med xtn, dense

sh: lt grey, grey, green

ls: tan, off wh, lt grey, fn. med xtn, slt foss, scat vpr - pr inter xtn  $\emptyset$ , scat pr st, wet stain in  $\emptyset$  on break, no show FD, no odor

sh: grey, green, calc in part w/ scat ls inclusions,

ls: off wh, tan, fn. med xtn, v slt ool, inter xtn  $\emptyset$ , scat pr st, vssfd in ep1, xcs, no odor

ls: tan, lt brown, fn. med xtn, ool in pt, scat pr inter xtn & interool  $\emptyset$ , scat pr - fr st, 55 FD, no odor.

ls: tan, lt brown, fn. med xtn, slt ool, most dense, scat pr interool  $\emptyset$ , rare fr or spotty st, no sat, nso, no odor.

ls: off wh, tan, lt brown, vfn. med. xtn, slt ool, no vis  $\emptyset$ , no show;  $\Delta$  tan, brown, fresh, opaque - semi-trans

ls: as above; no vis  $\emptyset$ , no show, few DPs  $\Delta$ , tan, grey, fresh, opaque

sh: lt grey, grey; sh: pale green, scat ls fragments included.

ls: tan, lt grey, fn. med xtn, slt ool, vpr - pr inter xtn & interool  $\emptyset$ , scat pr spotty st; live ool st in  $\emptyset$ , nso, no odor; considerable  $\Delta$  tan, grey wh. fresh, opaque - semi trans.

DST # 2

3250

60

70

80

90

3300

10

20

30

40

3350

60

70

80

90

3400

10

20

30

40

3450

60

70

80

90

3500

10

DST # 3

HEEBNER (-1188)

3324

TORONTO (-1206)

3342

LANSING (-1228)

3364

DST # 2 (3321 - 3460)

30 - 60 - 60 - 90

1FP: 1/2" BLW BLDG TO 4"

1SIP: NO BLOW

FFP: NO BLOW

FSIP: NO BLOW

RECOVERED:

30' MUD

HSP: 1702 - 1614

FP: 88-100 / 102-106

SIP: 306 - 288

BHT: 104' F

DST # 3 (3481 - 3594)

30 - 60 - 60 - 90

1FP: 1/2" BLW BLDG TO 2"

1SIP: NO BLOW

FFP: 1/4" BLW BLDG TO 1/2"

RECOVERED:

60' MUD

30 - 60 - 60 - 41D  
 IFP: 1/2" BLDW BLDG TO 2"  
 ISP: ND BLDW  
 FFP: 1/4" BLDW BLDG TO 1 1/2"  
**RECOVERED:**  
 60' MUD  
 HSP: 1759 - 1686  
 FP: 65-79/ 79-90  
 SIP: 424 - 234  
 BHT: 101° F

BKC  
 3585 (-1449)

CONGLOMERATE  
 3605 (-1569)

DST#4  
 (3642 - 3692)  
 3D - 60" - 60" - 90"  
 IFP: 1/4" BLDW BLDG TO 3/4"  
 FP: 32# 43# / AB# 56#  
 SIP: 784# - 777#  
 BHT: 108° F

SIMPSON  
 36B1 (-1545)  
 2092-3716: EXCESS WT,  
 BRAKES SLIPPINS REPAIR  
 DUBBING DST #5, KELLY  
 2' LONG @ 3702'

ARBuckle  
 3708 (-1572)

DST#5  
 (3644 - 3716)  
 30" - 60" - 8" - 405"  
 IFP: 3" BLDW BLDG TO 8"  
 ISP: ND BLDW  
 FFP: 608 IMMEDIATELY  
 CSIP: ND BLDW  
 \*PLUGGING DURING IFP  
**RECOVERED:**  
 189' MUD  
 882' SMCW  
 (5%o/n 95%w)

