



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

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

County: \_\_\_\_\_

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

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total 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**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



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

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

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	The Buckeye Corporation dba Aztec Oil Co. Division
Well Name	Cooper D 4
Doc ID	1102454

All Electric Logs Run

GRT
CNT/ENT
LDT
XYT
PIT
MLT
CST

Form	ACO1 - Well Completion
Operator	The Buckeye Corporation dba Aztec Oil Co. Division
Well Name	Cooper D 4
Doc ID	1102454

Tops

Name	Top	Datum
K.C.	2078	-455
Base K. C.	2260	-637
Marmaton	2344	-721
Cherokee	2539	-916
Miss	2800	-1177
Kind.	3142	-1519
Arb.	3296	-1673
T.D.	3296	-1673

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

January 11, 2013

Steven W. Kile  
The Buckeye Corporation dba Aztec Oil Co.  
Division  
PO BOX 1020  
EL DORADO, KS 67042-1020

Re: ACO1  
API 15-015-23950-00-00  
Cooper D 4  
NE/4 Sec.31-28S-08E  
Butler 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,  
Steven W. Kile



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 34817  
LOCATION Camp 190  
FOREMAN Jacob Storm

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
7/29/12	1027	Cooper D #4	31	28	8E	Butler
CUSTOMER AZtec Oil Co.			TRUCK #			
MAILING ADDRESS P.O. Box 1020			DRIVER		TRUCK #	
CITY El Dorado			DRIVER		TRUCK #	
STATE KS			DRIVER		TRUCK #	
ZIP CODE 67042			DRIVER		TRUCK #	

JOB TYPE Surface B HOLE SIZE 12 1/4 HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 8 5/8  
CASING DEPTH 227 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
DISPLACEMENT 13 bbls DISPLACEMENT PSI 150 MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting, Brake circulation, Mixed 130 SKS 3% CaCl<sub>2</sub> 2% gel  
1/4 lb poly Displaced with 13 bbls Freshwater

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	825.00	825.00
5406	35	MILEAGE	4.00	140.00
11045	130	CLASS A	14.95	1943.50
1102	320	CaCl <sub>2</sub>	.74	236.80
118B	300	Gel	.21	63.00
1107	50	Poly Flake	2.35	117.50
5407	1	Bulk Delivery	350.00	350.00
Sub Total				3675.80
			SALES TAX	104.64
			ESTIMATED TOTAL	3830.44

Revin 3737 AUTHORIZATION [Signature] TITLE 251676 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





## DRILL STEM TEST REPORT

Prepared For: **Aztec Oil Co.**

PO Box 1020  
El Dorado, KS 67042-1020

ATTN: Bill Stout

### **Cooper D #4**

### **31-28s-8e Butler,KS**

Start Date: 2012.08.03 @ 18:06:37

End Date: 2012.08.04 @ 02:02:07

Job Ticket #: 49531                      DST #: 1

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

Printed: 2012.08.09 @ 15:46:18





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Aztec Oil Co.  
PO Box 1020  
El Dorado, KS 67042-1020  
ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
Job Ticket: 49531      **DST#: 1**  
Test Start: 2012.08.03 @ 18:06:37

## GENERAL INFORMATION:

Formation: **Mississippi**  
Deviated: No    Whipstock:                      ft (KB)  
Time Tool Opened: 21:02:37  
Time Test Ended: 02:02:07  
Interval: **2808.00 ft (KB) To 2821.00 ft (KB) (TVD)**  
Total Depth: 2821.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches    Hole Condition: Poor  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ryan Reynolds  
Unit No: 63  
Reference Elevations: 1622.00 ft (KB)  
1612.00 ft (CF)  
KB to GR/CF: 10.00 ft

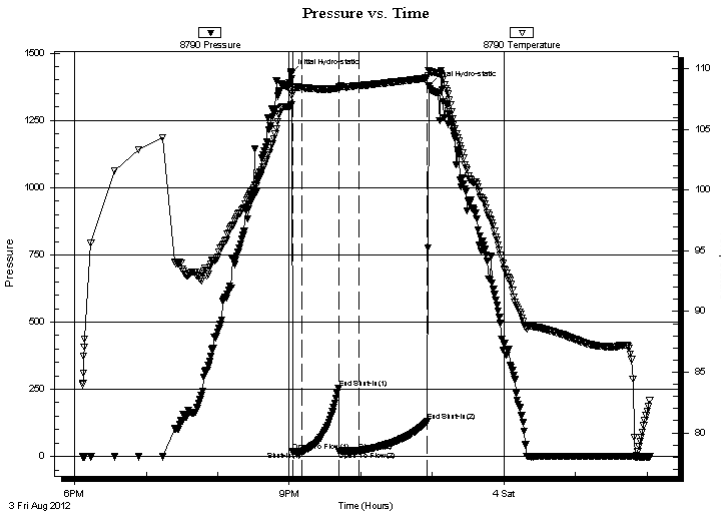
## Serial #: 8790

Inside

Press @ Run Depth: 21.12 psig @ 2809.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2012.08.03      End Date: 2012.08.04      Last Calib.: 2012.08.04  
Start Time: 18:06:42      End Time: 02:02:06      Time On Btm: 2012.08.03 @ 21:01:37  
Time Off Btm: 2012.08.03 @ 22:56:52

TEST COMMENT: IF: Weak blow . 1/4" - Dead in 7min.  
IS: No blow  
FF: No blow  
FS: No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1424.83	107.04	Initial Hydro-static
1	17.79	107.95	Open To Flow (1)
10	18.09	108.44	Shut-In(1)
40	255.13	108.37	End Shut-In(1)
41	20.00	108.40	Open To Flow (2)
57	21.12	108.60	Shut-In(2)
114	130.85	109.24	End Shut-In(2)
116	1379.58	109.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drig mud	0.02

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Aztec Oil Co.  
PO Box 1020  
El Dorado, KS 67042-1020  
ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
Job Ticket: 49531      **DST#: 1**  
Test Start: 2012.08.03 @ 18:06:37

**Tool Information**

Drill Pipe:	Length: 2479.00 ft	Diameter: 2.50 inches	Volume: 15.05 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight to Pull Loose: 35000.00 lb
			<u>Total Volume: 16.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 20000.00 lb
Depth to Top Packer:	2808.00 ft			Final 21000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.50 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			2786.00	
Hydraulic tool	5.00			2791.00	
Jars	5.00			2796.00	
Safety Joint	2.00			2798.00	
Packer	5.00			2803.00	27.00      Bottom Of Top Packer
Packer	5.00			2808.00	
Stubb	1.00			2809.00	
Recorder	0.00	8790	Inside	2809.00	
Recorder	0.00	8792	Outside	2809.00	
Perforations	9.00			2818.00	
Bullnose	3.00			2821.00	13.00      Bottom Packers & Anchor

**Total Tool Length: 40.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Aztec Oil Co.  
PO Box 1020  
El Dorado, KS 67042-1020  
ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
Job Ticket: 49531      **DST#: 1**  
Test Start: 2012.08.03 @ 18:06:37

## 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: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 900.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drig mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments:

Serial #: 8790

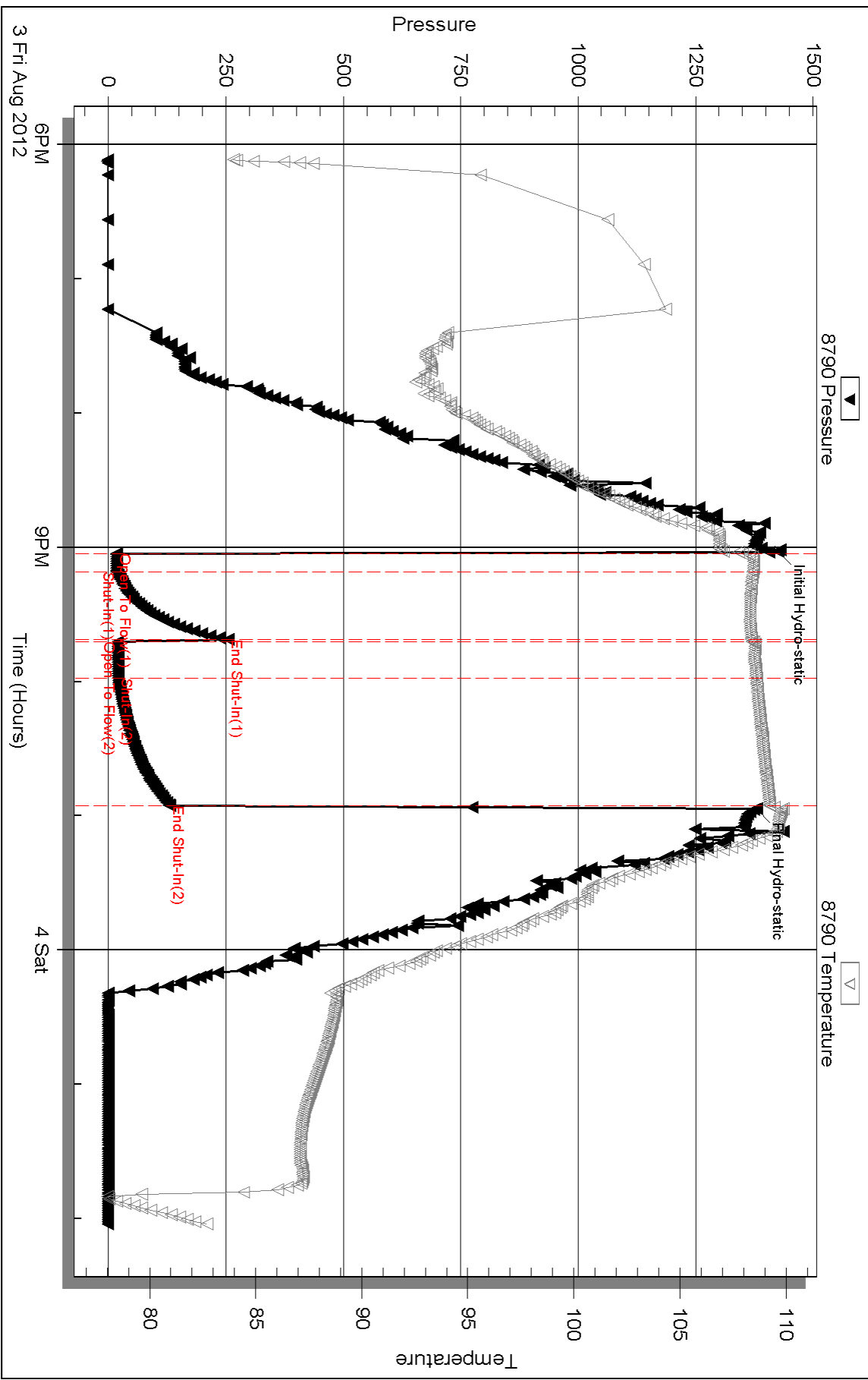
Inside

Aztec Oil Co.

Cooper D#4

DST Test Number: 1

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49531

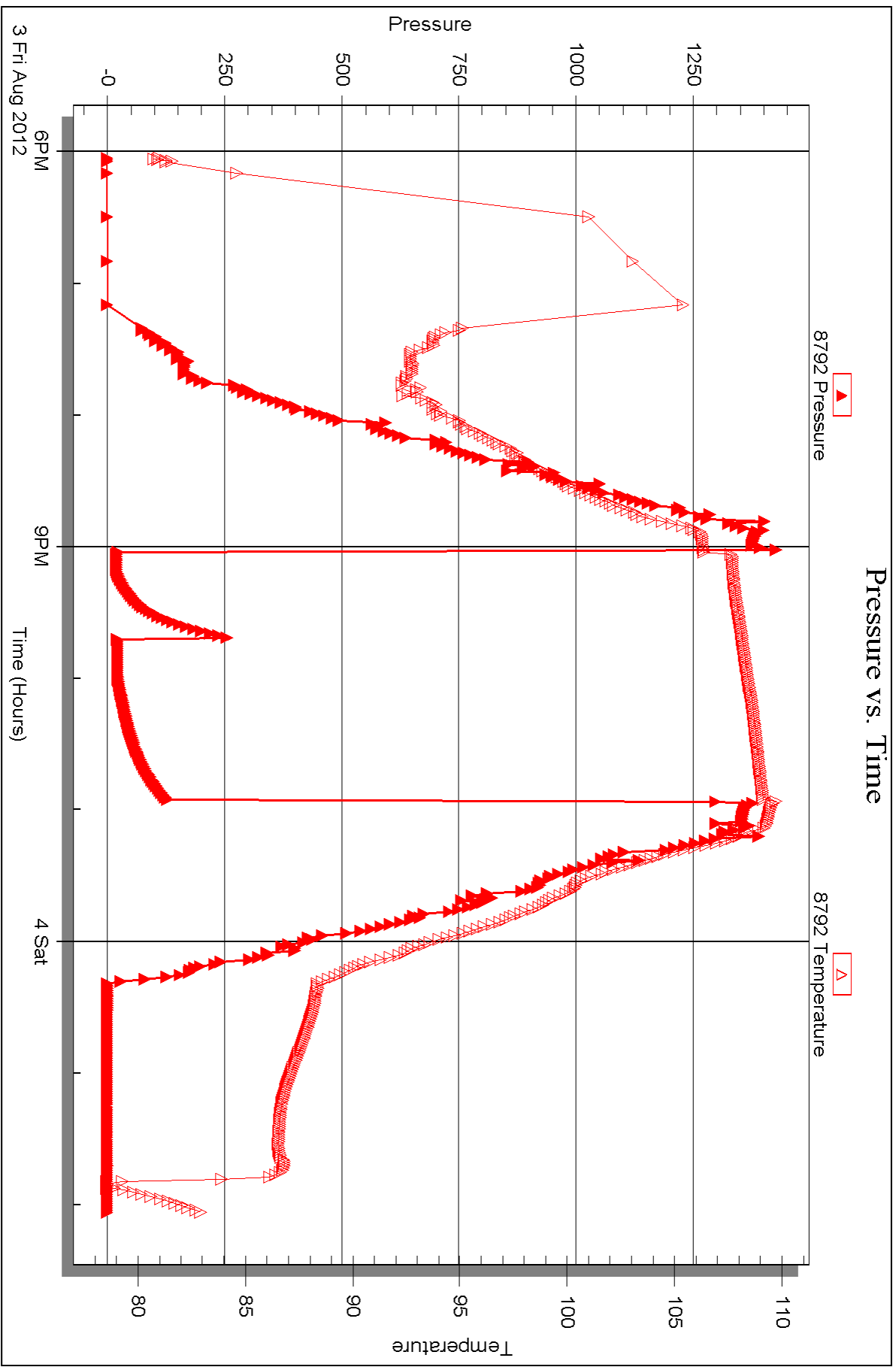
Printed: 2012.08.09 @ 15:46:21

Serial #: 8792

Outside Aztec Oil Co.

Cooper D#4

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 49531

Printed: 2012.08.09 @ 15:46:22



## DRILL STEM TEST REPORT

Prepared For: **Aztec Oil Co.**

PO Box 1020  
El Dorado, KS 67042-1020

ATTN: Bill Stout

### **Cooper D #4**

### **31-28s-8e Butler,KS**

Start Date: 2012.08.04 @ 11:21:49

End Date: 2012.08.04 @ 21:26:49

Job Ticket #: 49532                      DST #: 2

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

Printed: 2012.08.09 @ 15:45:09



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Aztec Oil Co.  
 PO Box 1020  
 El Dorado, KS 67042-1020  
 ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
 Job Ticket: 49532      **DST#: 2**  
 Test Start: 2012.08.04 @ 11:21:49

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 14:19:04  
 Time Test Ended: 21:26:49  
 Interval: **2845.00 ft (KB) To 2867.00 ft (KB) (TVD)**  
 Total Depth: 2867.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ryan Reynolds  
 Unit No: 63  
 Reference Elevations: 1622.00 ft (KB)  
 1612.00 ft (CF)  
 KB to GR/CF: 10.00 ft

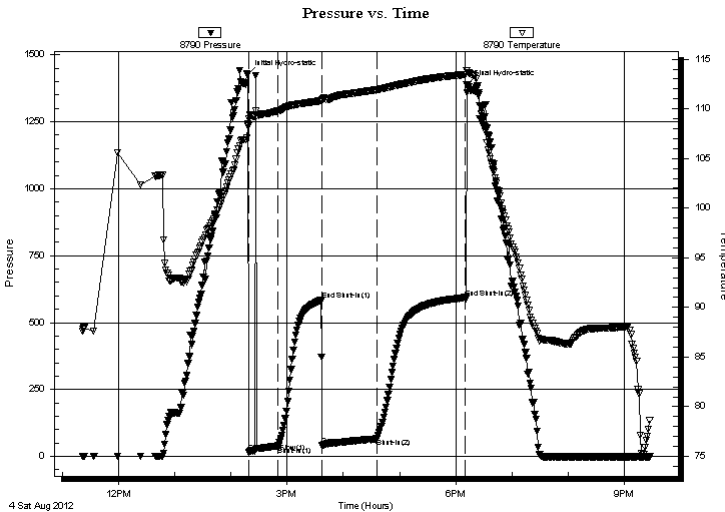
## Serial #: 8790

Inside

Press @ Run Depth: 66.19 psig @ 2846.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.08.04      End Date: 2012.08.04      Last Calib.: 2012.08.04  
 Start Time: 11:21:54      End Time: 21:26:49      Time On Btm: 2012.08.04 @ 14:18:19  
 Time Off Btm: 2012.08.04 @ 18:11:34

TEST COMMENT: IF: Weak-Good blow . 1/4" - 7 1/2" (flushed tool 5 min IF)  
 IS: No blow  
 FF: Weak-Strong blow . 1/4" - BOB in 43 mins.  
 FS: Weak surface BB

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1425.32	108.50	Initial Hydro-static
1	16.53	108.29	Open To Flow (1)
32	38.62	109.79	Shut-In(1)
79	583.15	110.83	End Shut-In(1)
79	40.71	110.90	Open To Flow (2)
138	66.19	111.91	Shut-In(2)
232	593.09	113.45	End Shut-In(2)
234	1387.17	113.87	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
110.00	GOCM 5%gas 30%oil 65%mud	0.54
10.00	Clean Oil	0.05
300.00	GIP	1.60

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Aztec Oil Co.  
PO Box 1020  
El Dorado, KS 67042-1020  
ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
Job Ticket: 49532      **DST#: 2**  
Test Start: 2012.08.04 @ 11:21:49

**Tool Information**

Drill Pipe:	Length: 2511.00 ft	Diameter: 2.50 inches	Volume: 15.25 bbl	Tool Weight:	2400.00 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: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight to Pull Loose:	28000.00 lb
			<u>Total Volume: 16.79 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	21000.00 lb
Depth to Top Packer:	2845.00 ft			Final	23500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	22.00 ft				
Tool Length:	49.00 ft				
Number of Packers:	2	Diameter: 6.50 inches			

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut In Tool	5.00			2823.00	
Hydraulic tool	5.00			2828.00	
Jars	5.00			2833.00	
Safety Joint	2.00			2835.00	
Packer	5.00			2840.00	27.00      Bottom Of Top Packer
Packer	5.00			2845.00	
Stubb	1.00			2846.00	
Recorder	0.00	8790	Inside	2846.00	
Recorder	0.00	8792	Outside	2846.00	
Perforations	18.00			2864.00	
Bullnose	3.00			2867.00	22.00      Bottom Packers & Anchor

**Total Tool Length: 49.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Aztec Oil Co.  
PO Box 1020  
El Dorado, KS 67042-1020  
ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
Job Ticket: 49532      **DST#: 2**  
Test Start: 2012.08.04 @ 11:21:49

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 900 ppm
Viscosity: 65.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.55 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 900.00 ppm		
Filter Cake: 0.02 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	GOCM 5%gas 30%oil 65%mud	0.541
10.00	Clean Oil	0.049
300.00	GIP	1.598

Total Length: 420.00 ft      Total Volume: 2.188 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

Serial #: 8790

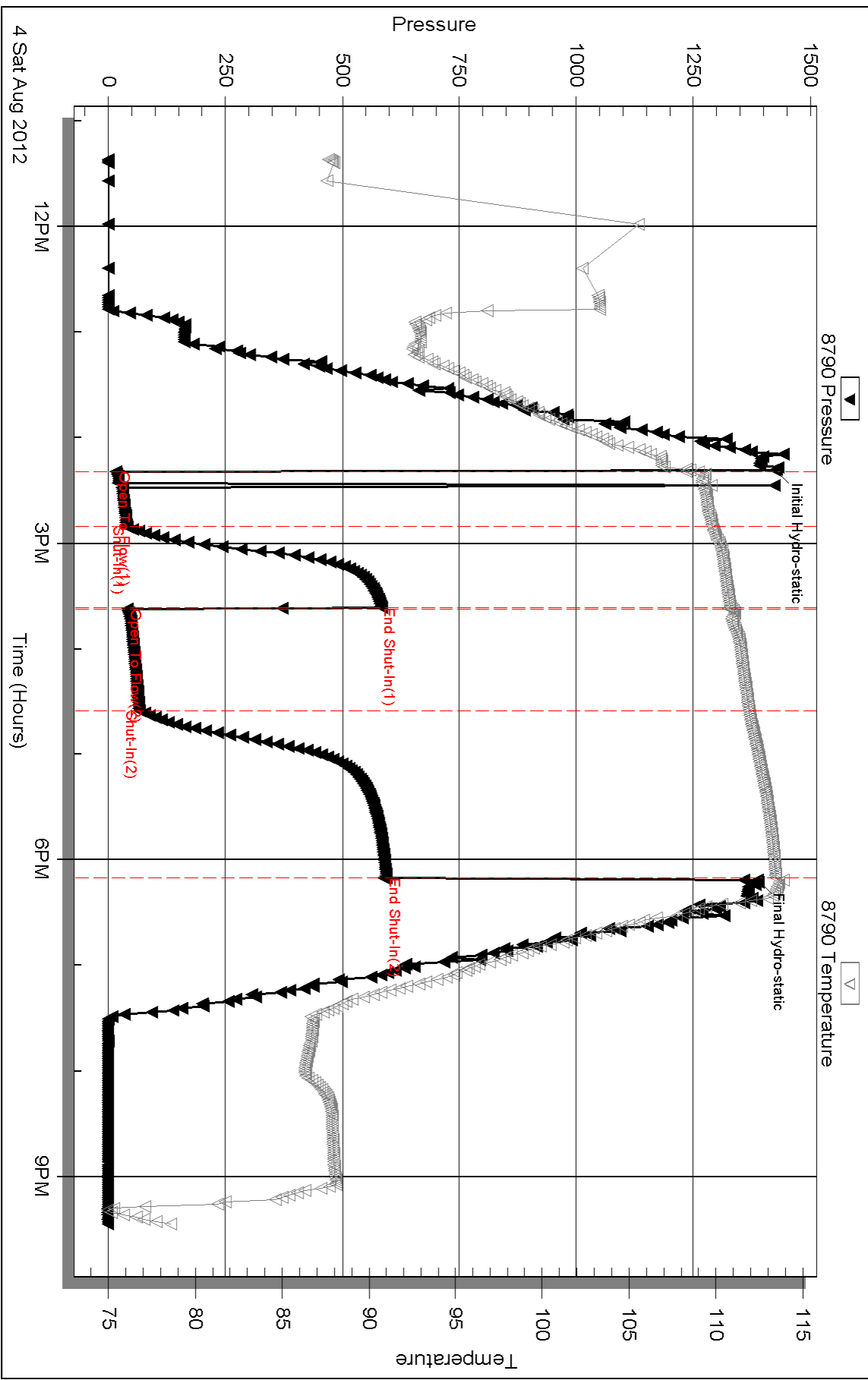
Inside

Aztec Oil Co.

Cooper D#4

DST Test Number: 2

# Pressure vs. Time



Triobite Testing, Inc

Ref. No: 49532

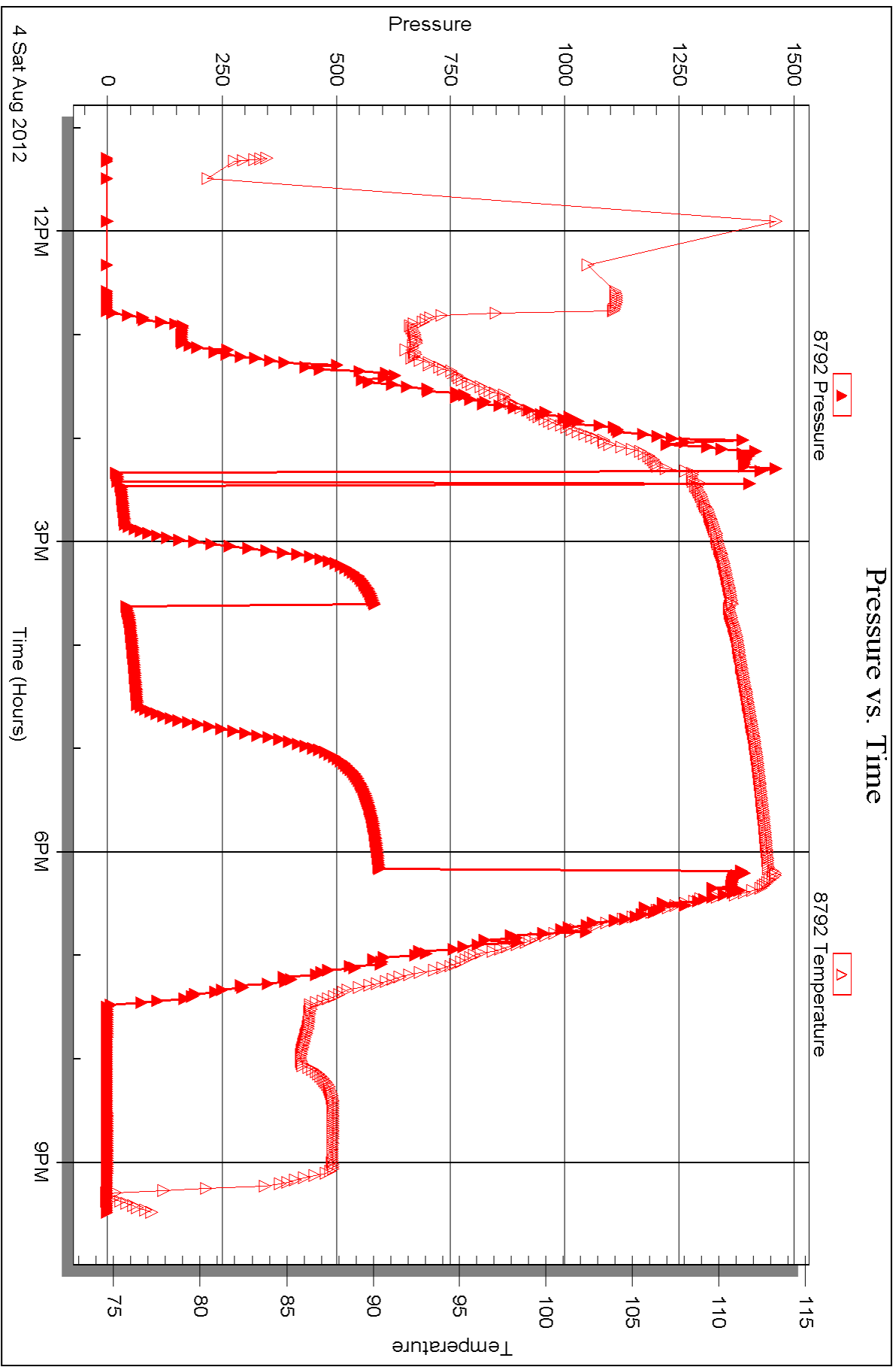
Printed: 2012.08.09 @ 15:45:12

Serial #: 8792

Outside Aztec Oil Co.

Cooper D#4

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Aztec Oil Co.**

PO Box 1020  
El Dorado, KS 67042-1020

ATTN: Bill Stout

### **Cooper D #4**

### **31-28s-8e Butler,KS**

Start Date: 2012.08.08 @ 10:52:54

End Date: 2012.08.08 @ 19:25:54

Job Ticket #: 49533                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.08.09 @ 15:44:14









**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Aztec Oil Co.  
PO Box 1020  
El Dorado, KS 67042-1020  
ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
Job Ticket: 49533      **DST#: 3**  
Test Start: 2012.08.08 @ 10:52:54

**Tool Information**

Drill Pipe:	Length: 2887.00 ft	Diameter: 2.50 inches	Volume: 17.53 bbl	Tool Weight:	2400.00 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: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight to Pull Loose:	40000.00 lb
			<u>Total Volume: 19.07 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	32000.00 lb
Depth to Top Packer:	3201.00 ft			Final	32000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	10.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	2	Diameter:	6.50 inches		

Tool Comments: tight hole on rotations, had to pull tool free on IF and reset to rotate to ISI  
on attempt to open to 2nd Flow, tight hole caused table to backlash and possibly got the tool out of sequence. Possible MR? No FSI

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3179.00	
Hydraulic tool	5.00			3184.00	
Jars	5.00			3189.00	
Safety Joint	2.00			3191.00	
Packer	5.00			3196.00	27.00      Bottom Of Top Packer
Packer	5.00			3201.00	
Stubb	1.00			3202.00	
Recorder	0.00	8790	Inside	3202.00	
Recorder	0.00	8792	Outside	3202.00	
Perforations	6.00			3208.00	
Bullnose	3.00			3211.00	10.00      Bottom Packers & Anchor

**Total Tool Length: 37.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Aztec Oil Co.  
PO Box 1020  
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ATTN: Bill Stout

**31-28s-8e Butler, KS**  
**Cooper D #4**  
Job Ticket: 49533      **DST#: 3**  
Test Start: 2012.08.08 @ 10:52:54

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	800 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.97 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 800.00 ppm			
Filter Cake: 0.02 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	clean oil	0.010
10.00	OCM 15%oil 85%mud	0.049
40.00	GIP	0.197

Total Length: 52.00 ft      Total Volume: 0.256 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

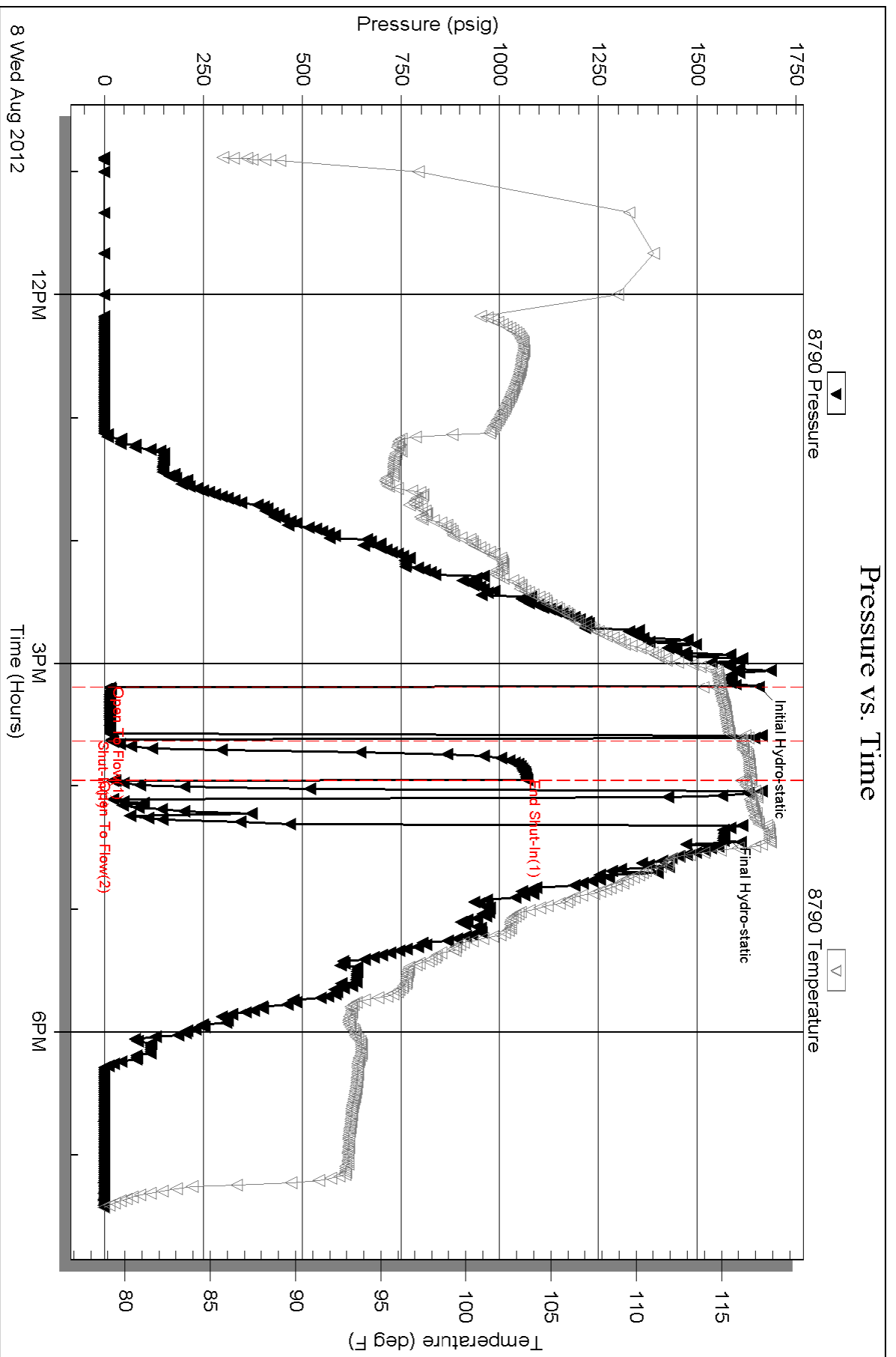
Serial #: 8790

Inside

Aztec Oil Co.

Cooper D#4

DST Test Number: 3



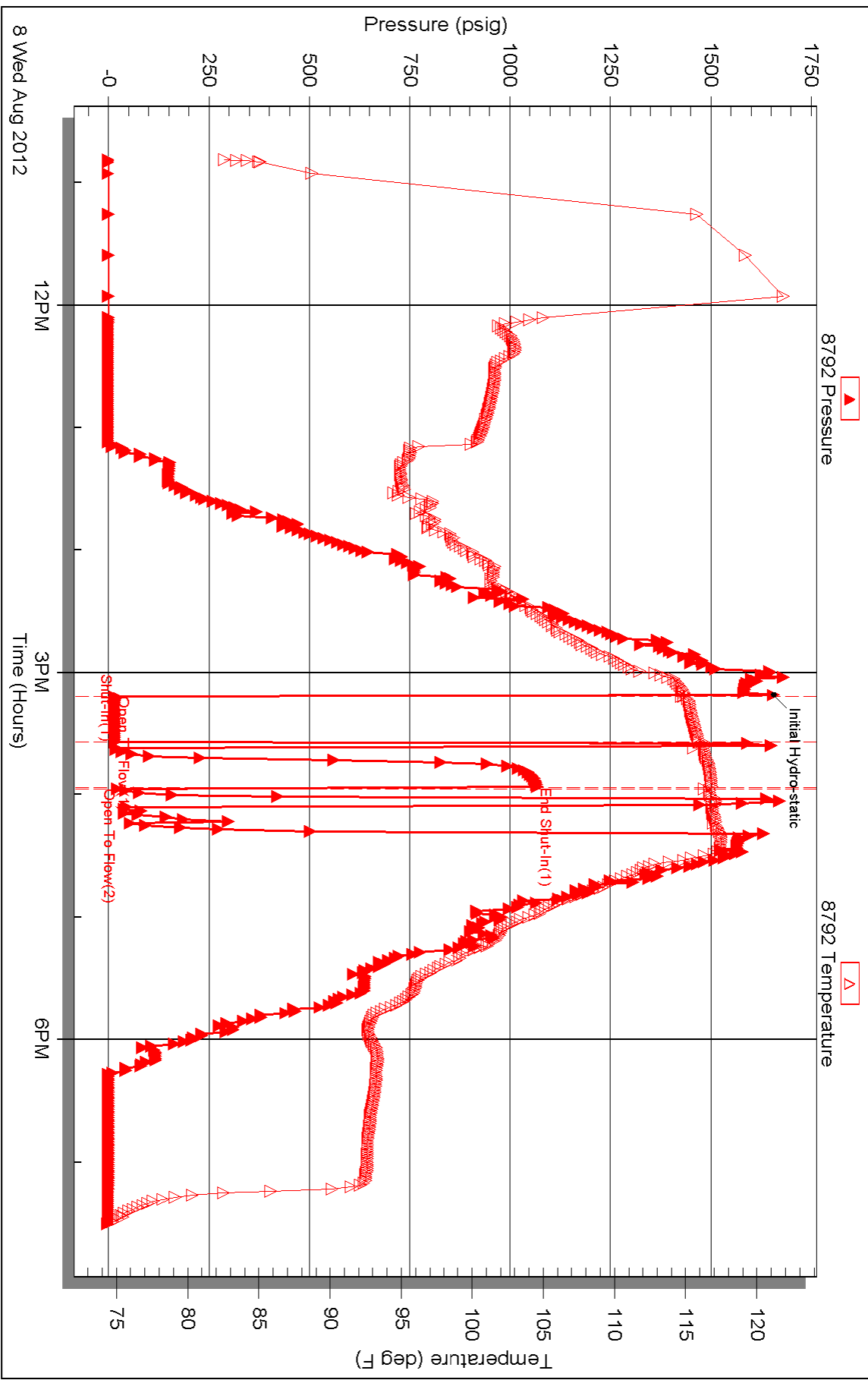
Serial #: 8792

Outside Aztec Oil Co.

Cooper D#4

DST Test Number: 3

### Pressure vs. Time





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49531

4/10

Well Name & No. Cooper "D" #4 Test No. 1 Date 8-3-12  
 Company Aztec Oil Co. Elevation 1622 KB 1612 GL  
 Address P.O. Box 1020 El Dorado, KS 67042-1020  
 Co. Rep / Geo. Bill Stout Rig Summit  
 Location: Sec. 31 Twp. 28s Rge. 8e Co. Butler State KS

Interval Tested 2808-2821 Zone Tested \_\_\_\_\_  
 Anchor Length 13 Drill Pipe Run 2479 Mud Wt. 9.3+  
 Top Packer Depth 2803 Drill Collars Run 314 Vis 65  
 Bottom Packer Depth 2808 Wt. Pipe Run Ø WL 9.6  
 Total Depth 2821 Chlorides 900 ppm System LCM 2#  
 Blow Description IF: Weak blow, 1/4" - Dead in 7 mins. ISI = No blow

FF: No blow

FSTI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
5	Mud			100	

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

(A) Initial Hydrostatic 1424  Test 1150 T-On Location 0945/1745  
 (B) First Initial Flow 18  Jars 250 T-Started 1806  
 (C) First Final Flow 18  Safety Joint 75 T-Open 2102  
 (D) Initial Shut-In 255  Circ Sub \_\_\_\_\_ T-Pulled 2257  
 (E) Second Initial Flow 20  Hourly Standby \_\_\_\_\_ T-Out 0202  
 (F) Second Final Flow 21  Mileage 256rt 230 396.80  
 (G) Final Shut-In 131  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1380  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility 150

Sub Total 2021.80

Comments Pipe stuck when arrived on loc, went back to Augusta called back out @ 17:00 pm

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 2021.80  
 MP/DST Disc't \_\_\_\_\_

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

Our Representative Ryan Payne

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49532

4/10

Well Name & No. Cooper "D" #4 Test No. 2 Date 8-4-12  
 Company Aztec Oil Co. Elevation 1622 KB 1612 GL  
 Address P.O. Box 1020 El Dorado, KS 67042-1020  
 Co. Rep / Geo. Bill Stout Rig Summit  
 Location: Sec. 31 Twp. 28s Rge. 8e. Co. Butler State KS

Interval Tested 2845 - 2867 Zone Tested Miss.  
 Anchor Length 22' Drill Pipe Run 2511 Mud Wt. 9.3+  
 Top Packer Depth 2840 Drill Collars Run 314 Vis 65  
 Bottom Packer Depth 2845 Wt. Pipe Run Ø WL 9.6  
 Total Depth 2867 Chlorides 900 ppm System LCM 2#  
 Blow Description IF: Weak - Good blow. 1/4" - 7 1/2" (5 minutes) (Pushed to) FSI: No blow

FF: Strong blow 1/4" - B.O.B. 43 mins.

FSI: No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>300</u>	<u>GIP</u>	<u>100</u>			
<u>120</u>	<u>GDCM</u>	<u>5</u>	<u>30</u>	<u>65</u>	<u>0</u>
<u>10</u>	<u>Clean oil</u>		<u>100</u>		

Rec Total 420 BHT 113 Gravity 34 API RW N/C @ N/C °F Chlorides 900 ppm

(A) Initial Hydrostatic 1425  Test 1150 T-On Location 1130  
 (B) First Initial Flow 17  Jars 250 T-Started 1122  
 (C) First Final Flow 39  Safety Joint 75 T-Open 1419  
 (D) Initial Shut-In 583  Circ Sub T-Pulled 1805  
 (E) Second Initial Flow 41  Hourly Standby 1 100 T-Out 2127  
 (F) Second Final Flow 66  Mileage 60 396.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 593  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1387  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility 150  
 Sub Total 2121.80

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 2121.80  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Ryan Reynolds

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# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 49533

4/10

Well Name & No. Cooper "D" #4 Test No. 3 Date 8/8/12  
 Company Aztec Oil Co. Elevation 1622 KB 1612 GL  
 Address P.O. Box 1020 El Dorado, KS 67042-1020  
 Co. Rep / Geo. Bill Stout Rig Summit  
 Location: Sec. 31 Twp. 28s Rge. 8e Co. Butler State KS

Interval Tested 3201-3211 Zone Tested Arbuckle  
 Anchor Length 10' Drill Pipe Run 2887 Mud Wt. 9.4+  
 Top Packer Depth 3196 Drill Collars Run 314 Vis 52  
 Bottom Packer Depth 3201 Wt. Pipe Run Ø WL 9.0  
 Total Depth 3211 Chlorides 800 ppm System LCM 2#  
 Blow Description IF=Weak surf. blow ISI=No blow (Had to pull to free to rotate)

FF=No blow (Flushed tool 5 min. into tight hole on rotations poss. out of sync)  
FSI=~~NO~~ No FSI

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Clear oil</u>				
<u>10</u>	<u>OCM</u>		<u>15</u>		<u>85</u>
<u>40</u>	<u>GIP</u>	<u>100</u>			

Rec Total 52 BHT 116 Gravity N/C API RW N/C @ N/C °F Chlorides 800 ppm

(A) Initial Hydrostatic 1655  Test 1150 T-On Location 1045  
 (B) First Initial Flow 14  Jars 250 T-Started 1053  
 (C) First Final Flow 17  Safety Joint 75 T-Open 1511  
 (D) Initial Shut-In 1069  Circ Sub T-Pulled 1636  
 (E) Second Initial Flow 21  Hourly Standby T-Out 1926  
 (F) Second Final Flow N/C  Mileage 160 396.80 Comments \_\_\_\_\_  
 (G) Final Shut-In N/C  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1568  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder 1d 61.25hrs  
 Day Standby 3 days  
 Accessibility 150

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In Ø

Sub Total 2021.80

Sub Total 2041.67  
 Total 4063.47  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Ryan Reynolds  
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Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
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Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 14, 2013

Steven W. Kile  
The Buckeye Corporation dba Aztec Oil Co.  
Division  
PO BOX 1020  
EL DORADO, KS 67042-1020

Re: ACO-1  
API 15-015-23950-00-00  
Cooper D 4  
NE/4 Sec.31-28S-08E  
Butler County, Kansas

Dear Steven W. Kile:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 07/28/2012 and the ACO-1 was received on January 14, 2013 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department