



## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124  
Kiowa, KS 67070

ATTN: Dave Barker

### **Blevins A #1**

#### **25-34s-11w Barber,KS**

Start Date: 2011.11.14 @ 20:29:15

End Date: 2011.11.15 @ 05:34:36

Job Ticket #: 44036                      DST #: 1

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

Printed: 2011.11.23 @ 10:33:28



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**25-34s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Blevins A #1**

Job Ticket: 44036

**DST#: 1**

ATTN: Dave Barker

Test Start: 2011.11.14 @ 20:29:15

## GENERAL INFORMATION:

Formation: **Stalnaker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:55:30

Time Test Ended: 05:34:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

**Interval: 3919.00 ft (KB) To 3985.00 ft (KB) (TVD)**

Reference Elevations: 1370.00 ft (KB)

Total Depth: 3985.00 ft (KB) (TVD)

1362.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6798**

**Inside**

Press @ Run Depth: 210.27 psig @ 3920.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.14

End Date:

2011.11.15

Last Calib.:

2011.11.15

Start Time: 20:29:16

End Time:

05:34:36

Time On Btm:

2011.11.14 @ 22:54:15

Time Off Btm:

2011.11.15 @ 02:44:00

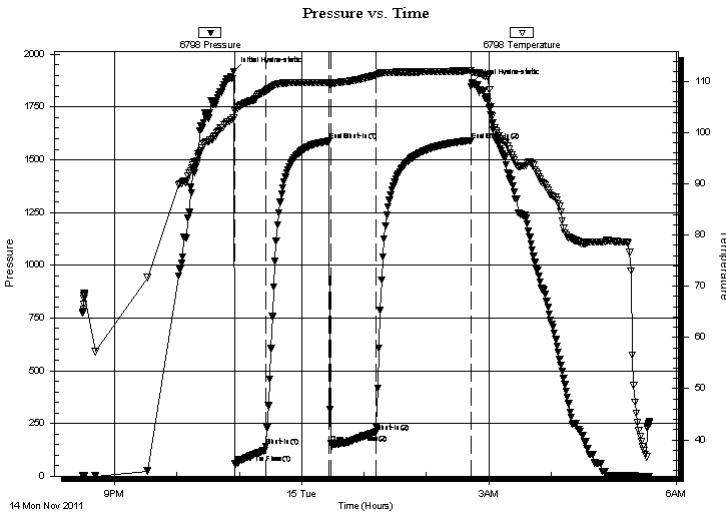
**TEST COMMENT:** IF: Strong Blow, BOB in 45 seconds

IS: 1 inch Blow back

FF: Strong Blow, BOB immediate, GTS in 4 minutes, Caught Sample, TSTM

FS: 1 inch Blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1919.31	102.87	Initial Hydro-static
2	58.96	104.34	Open To Flow (1)
32	142.21	108.16	Shut-In(1)
92	1588.55	109.82	End Shut-In(1)
94	153.81	109.59	Open To Flow (2)
138	210.27	111.25	Shut-In(2)
229	1591.48	112.12	End Shut-In(2)
230	1863.52	111.74	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 3657	0.00
186.00	GMCW 5%G 42%M 53%W	1.48
248.00	GWCM 10%G 30%W 60%M	3.48

## Gas Rates

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



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Chieftain Oil Co

PO Box 124  
Kiowa, KS 67070

ATTN: Dave Barker

**25-34s-11w Barber, KS**

**Blevins A #1**

Job Ticket: 44036

**DST#: 1**

Test Start: 2011.11.14 @ 20:29:15

### GENERAL INFORMATION:

Formation: **Stalnaker**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:55:30

Time Test Ended: 05:34:36

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

**Interval: 3919.00 ft (KB) To 3985.00 ft (KB) (TVD)**

Reference Elevations: 1370.00 ft (KB)

Total Depth: 3985.00 ft (KB) (TVD)

1362.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 8367 Outside**

Press@RunDepth: psig @ 3920.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.14

End Date: 2011.11.15

Last Calib.: 2011.11.15

Start Time: 20:29:16

End Time: 05:37:45

Time On Btm:

Time Off Btm:

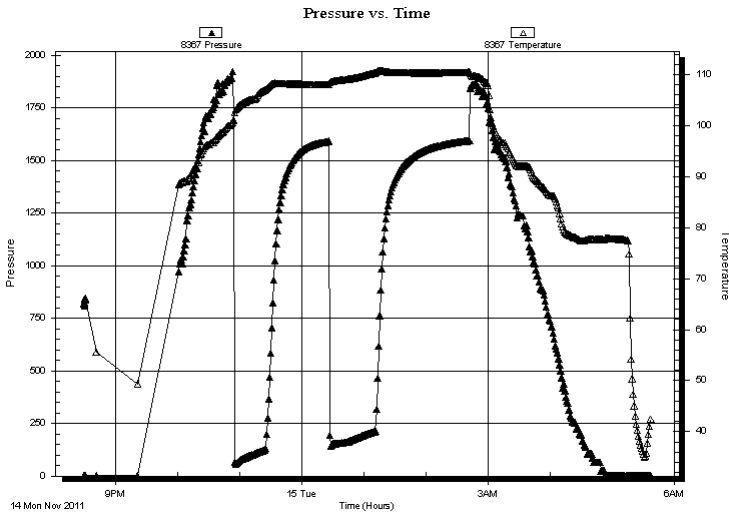
**TEST COMMENT:** IF: Strong Blow , BOB in 45 seconds

IS: 1 inch Blow back

FF: Strong Blow , BOB immediate, GTS in 4 minutes, Caught Sample, TSTM

FS: 1 inch Blow back

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	GIP 3657	0.00
186.00	GMCW 5%G 42%M 53%W	1.48
248.00	GWCM 10%G 30%W 60%M	3.48

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co

**25-34s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Blevins A #1**

Job Ticket: 44036

**DST#: 1**

ATTN: Dave Barker

Test Start: 2011.11.14 @ 20:29:15

## Tool Information

Drill Pipe:	Length: 3781.00 ft	Diameter: 3.80 inches	Volume: 53.04 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 53.65 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3919.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3897.00	
Hydraulic tool	5.00			3902.00	
Jars	5.00			3907.00	
Safety Joint	2.00			3909.00	
Packer	5.00			3914.00	27.00 Bottom Of Top Packer
Packer	5.00			3919.00	
Stubb	1.00			3920.00	
Recorder	0.00	6798	Inside	3920.00	
Recorder	0.00	8367	Outside	3920.00	
Perforations	23.00			3943.00	
Change Over Sub	1.00			3944.00	
Drill Pipe	32.00			3976.00	
Change Over Sub	1.00			3977.00	
Perforations	5.00			3982.00	
Bullnose	3.00			3985.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 93.00**



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TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co

**25-34s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Blevins A #1**

Job Ticket: 44036

**DST#: 1**

ATTN: Dave Barker

Test Start: 2011.11.14 @ 20:29:15

## 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: 115000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume: bbl

Water Loss: 10.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6500.00 ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	GIP 3657	0.000
186.00	GMCW 5%G 42%M 53%W	1.480
248.00	GWCM 10%G 30%W 60%M	3.479

Total Length: 434.00 ft      Total Volume: 4.959 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW was .13 @ 40 degrees

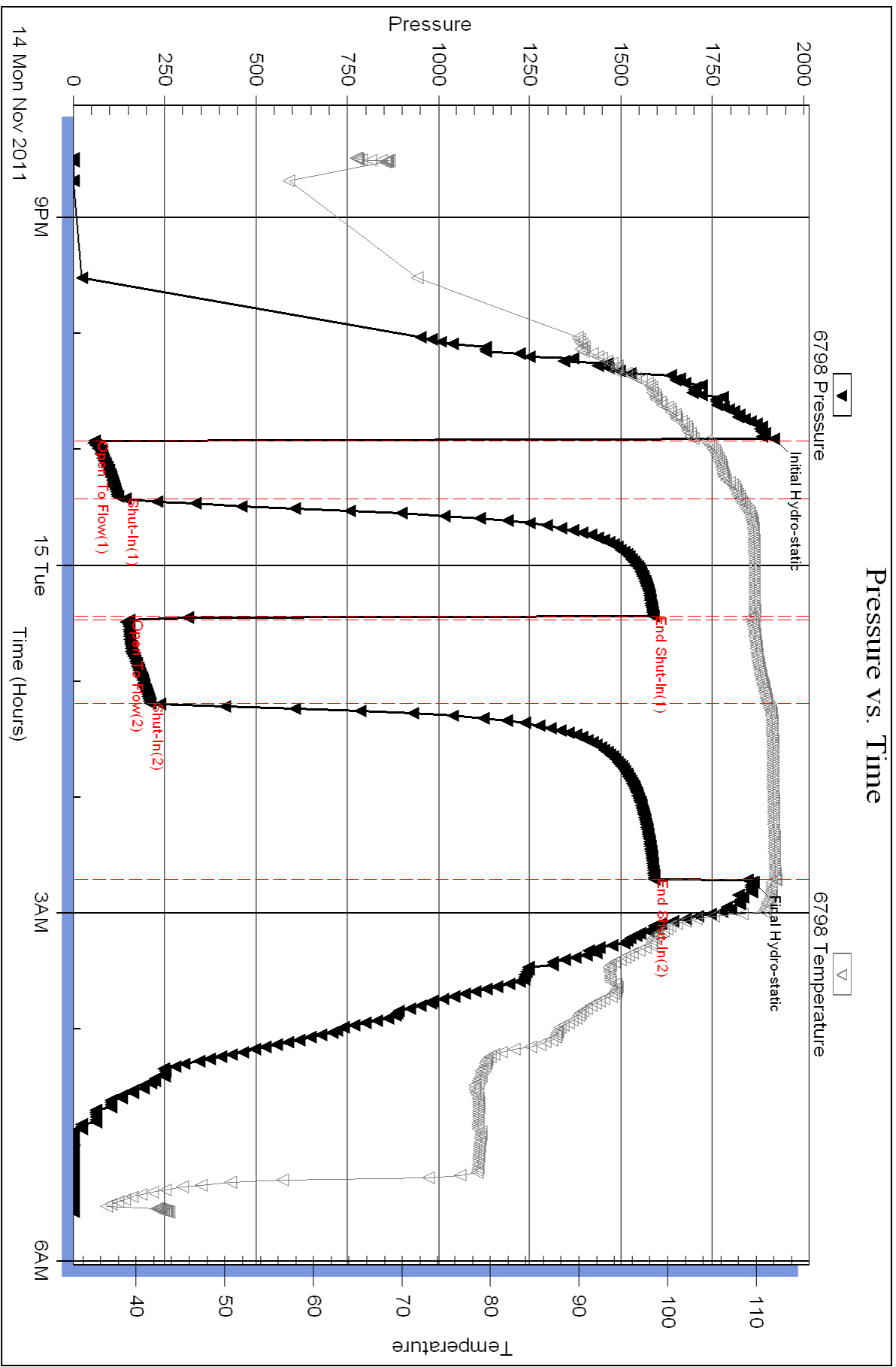
Serial #: 6798

Inside

Chieftain Oil Co

Blevins A #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 44036

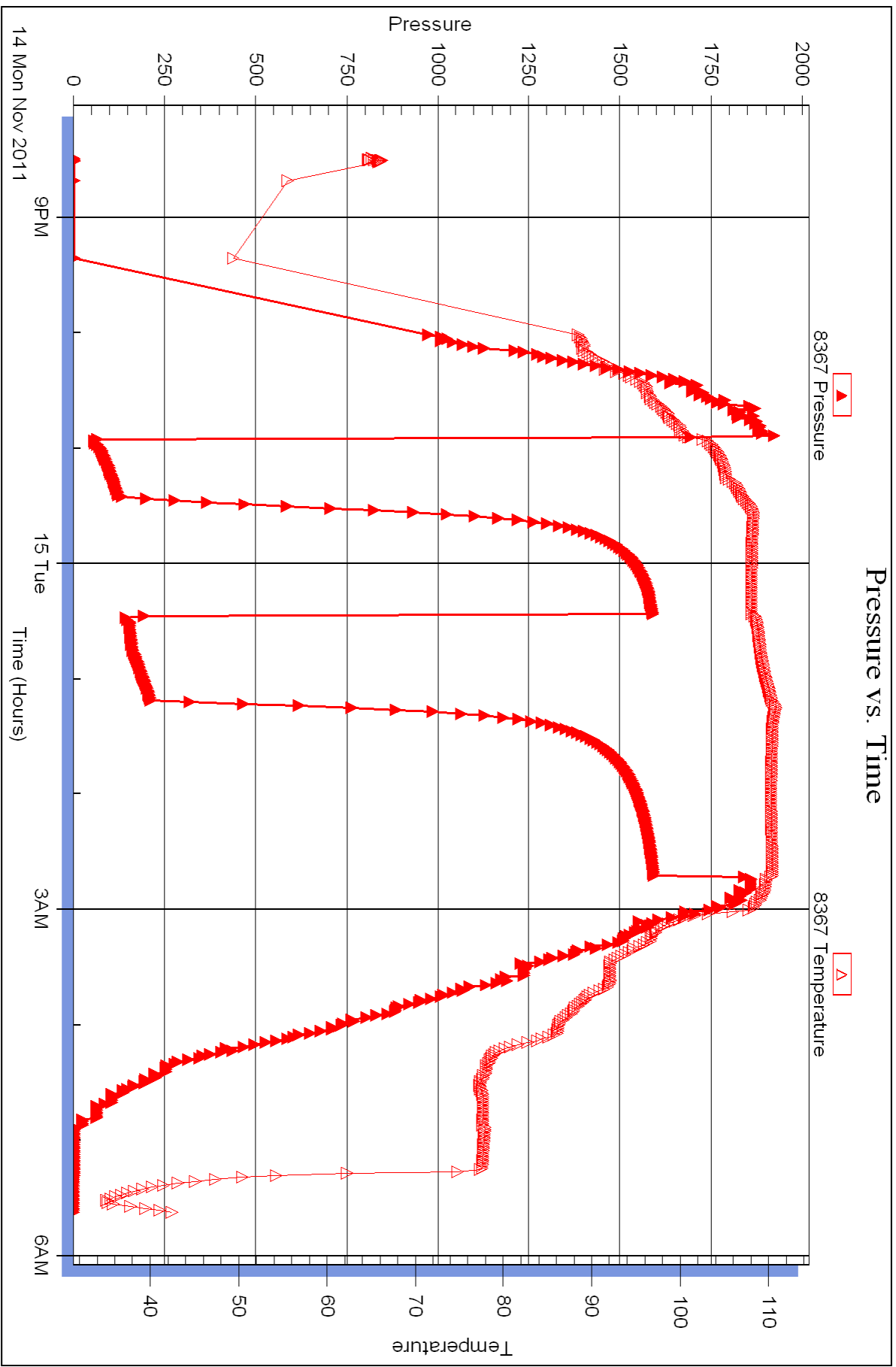
Printed: 2011.11.23 @ 10:33:30

Serial #: 8367

Outside Chieftain Oil Co

Blevins A #1

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124  
Kiowa, KS 67070

ATTN: Dave Barker

### **Blevins A #1**

#### **25-34s-11w Barber,KS**

Start Date: 2011.11.18 @ 20:19:09

End Date: 2011.11.19 @ 04:23:09

Job Ticket #: 44106                      DST #: 2

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

Printed: 2011.11.23 @ 10:32:44





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**25-34s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Blevins A #1**

Job Ticket: 44106

**DST#: 2**

ATTN: Dave Barker

Test Start: 2011.11.18 @ 20:19:09

## GENERAL INFORMATION:

Formation: **Misener**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:41:24

Time Test Ended: 04:23:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 34

**Interval: 5018.00 ft (KB) To 5089.00 ft (KB) (TVD)**

Reference Elevations: 1370.00 ft (KB)

Total Depth: 5089.00 ft (KB) (TVD)

1362.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8166 Outside**

Press @ Run Depth: 53.13 psig @ 5019.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.18

End Date:

2011.11.19

Last Calib.:

2011.11.19

Start Time: 20:19:14

End Time:

04:23:08

Time On Btm:

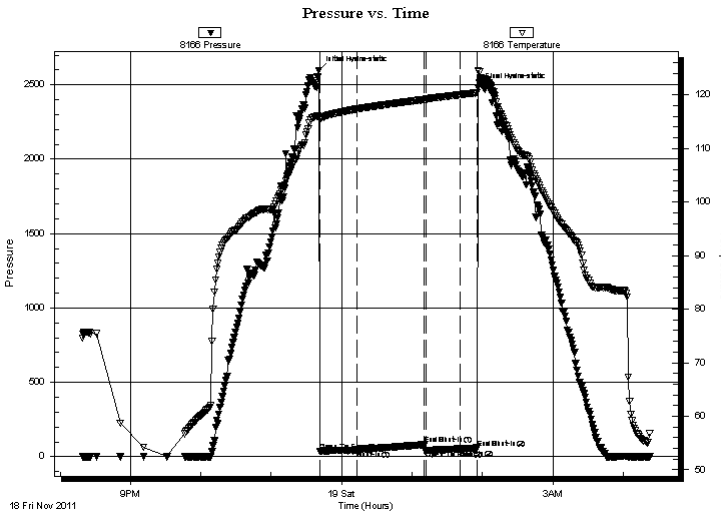
2011.11.18 @ 23:40:24

Time Off Btm:

2011.11.19 @ 01:56:24

**TEST COMMENT:** IF: Weak blow 1"  
IS: No blow back  
FF: Weak surface blow died  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2596.97	115.92	Initial Hydro-static
1	36.01	115.37	Open To Flow (1)
33	44.53	117.37	Shut-In(1)
90	80.51	119.13	End Shut-In(1)
92	42.60	119.16	Open To Flow (2)
121	53.13	120.00	Shut-In(2)
135	59.14	120.38	End Shut-In(2)
136	2483.60	124.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	MUD 100%	0.34

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Chieftain Oil Co

**25-34s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Blevins A #1**

Job Ticket: 44106

**DST#: 2**

ATTN: Dave Barker

Test Start: 2011.11.18 @ 20:19:09

## GENERAL INFORMATION:

Formation: **Misener**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:41:24

Time Test Ended: 04:23:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 34

**Interval: 5018.00 ft (KB) To 5089.00 ft (KB) (TVD)**

Reference Elevations: 1370.00 ft (KB)

Total Depth: 5089.00 ft (KB) (TVD)

1362.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6773 Outside**

Press @ Run Depth: psig @ 5019.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.18

End Date:

2011.11.19

Last Calib.:

2011.11.19

Start Time: 20:28:29

End Time:

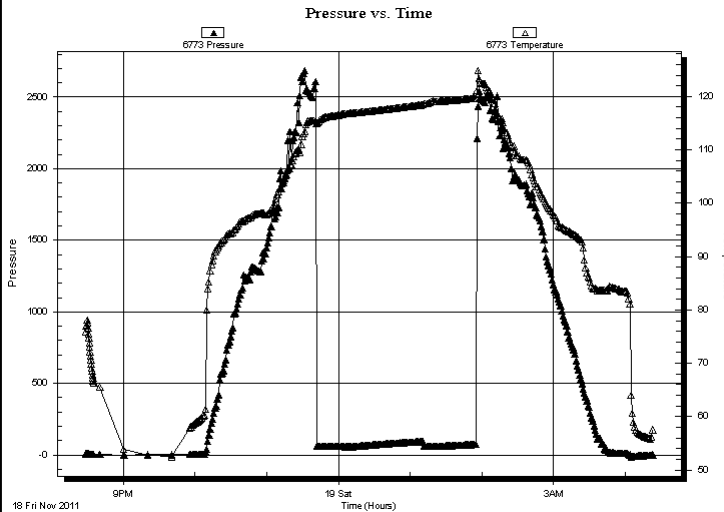
04:23:08

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: Weak blow 1"  
IS: No blow back  
FF: Weak surface blow died  
FS: No blow back

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	MUD 100%	0.34

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Chieftain Oil Co

**25-34s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Blevins A #1**

Job Ticket: 44106

**DST#: 2**

ATTN: Dave Barker

Test Start: 2011.11.18 @ 20:19:09

## Tool Information

Drill Pipe:	Length: 4818.00 ft	Diameter: 3.80 inches	Volume: 67.58 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 68.49 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	5018.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	100.00 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			4990.00	
Shut In Tool	5.00			4995.00	
Hydraulic tool	5.00			5000.00	
Jars	5.00			5005.00	
Safety Joint	3.00			5008.00	
Packer	5.00			5013.00	29.00 Bottom Of Top Packer
Packer	5.00			5018.00	
Stubb	1.00			5019.00	
Recorder	0.00	6773	Outside	5019.00	
Recorder	0.00	8166	Outside	5019.00	
Perforations	35.00			5054.00	
Change Over Sub	0.50			5054.50	
Drill Pipe	31.00			5085.50	
Change Over Sub	0.50			5086.00	
Bullnose	3.00			5089.00	71.00 Bottom Packers & Anchor

**Total Tool Length: 100.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Chieftain Oil Co

**25-34s-11w Barber, KS**

PO Box 124  
Kiowa, KS 67070

**Blevins A #1**

Job Ticket: 44106

**DST#: 2**

ATTN: Dave Barker

Test Start: 2011.11.18 @ 20:19:09

## 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: 8.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5100.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	MJD 100%	0.344

Total Length: 70.00 ft      Total Volume: 0.344 bbl

Num Fluid Samples: 0

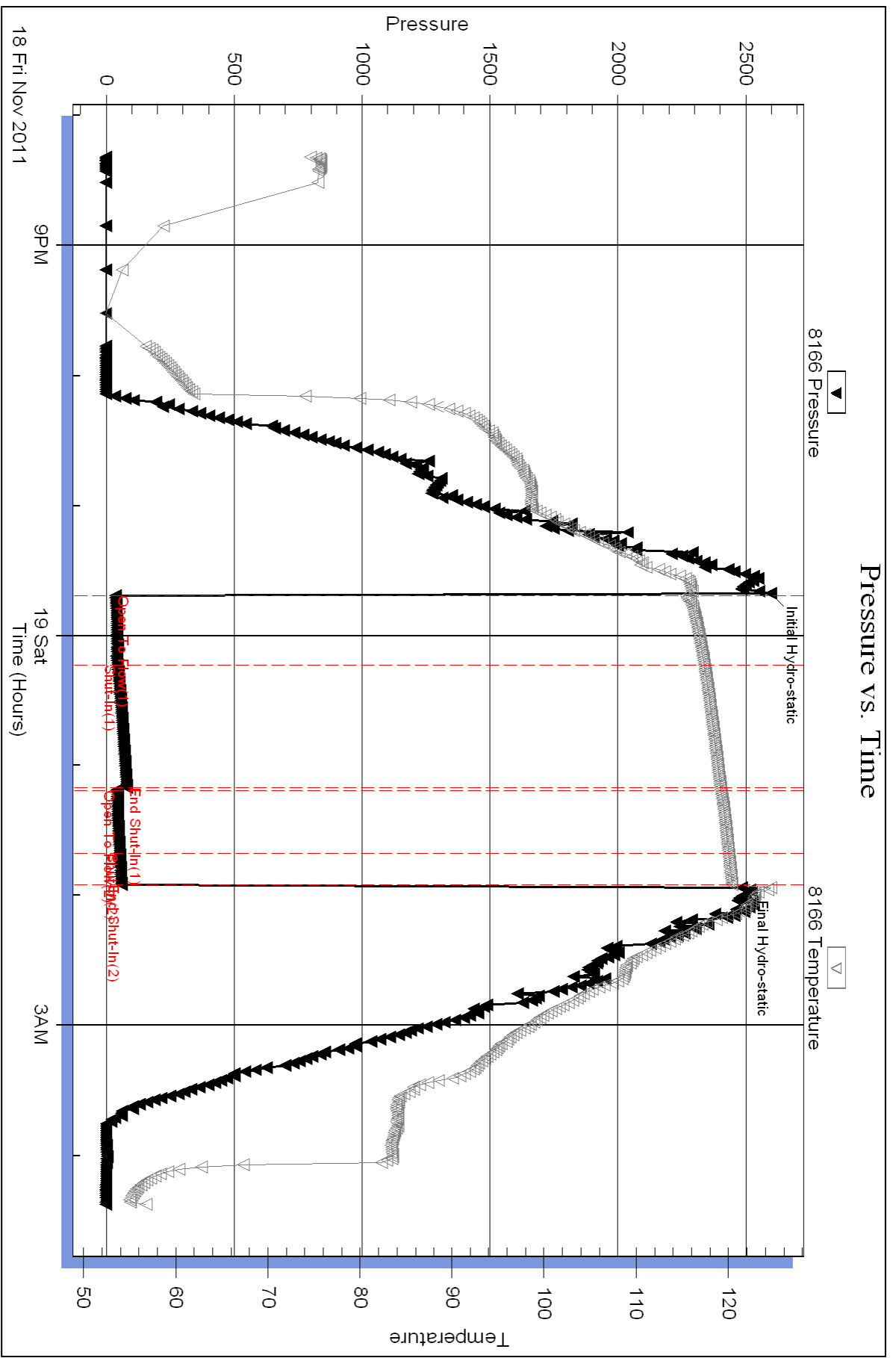
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

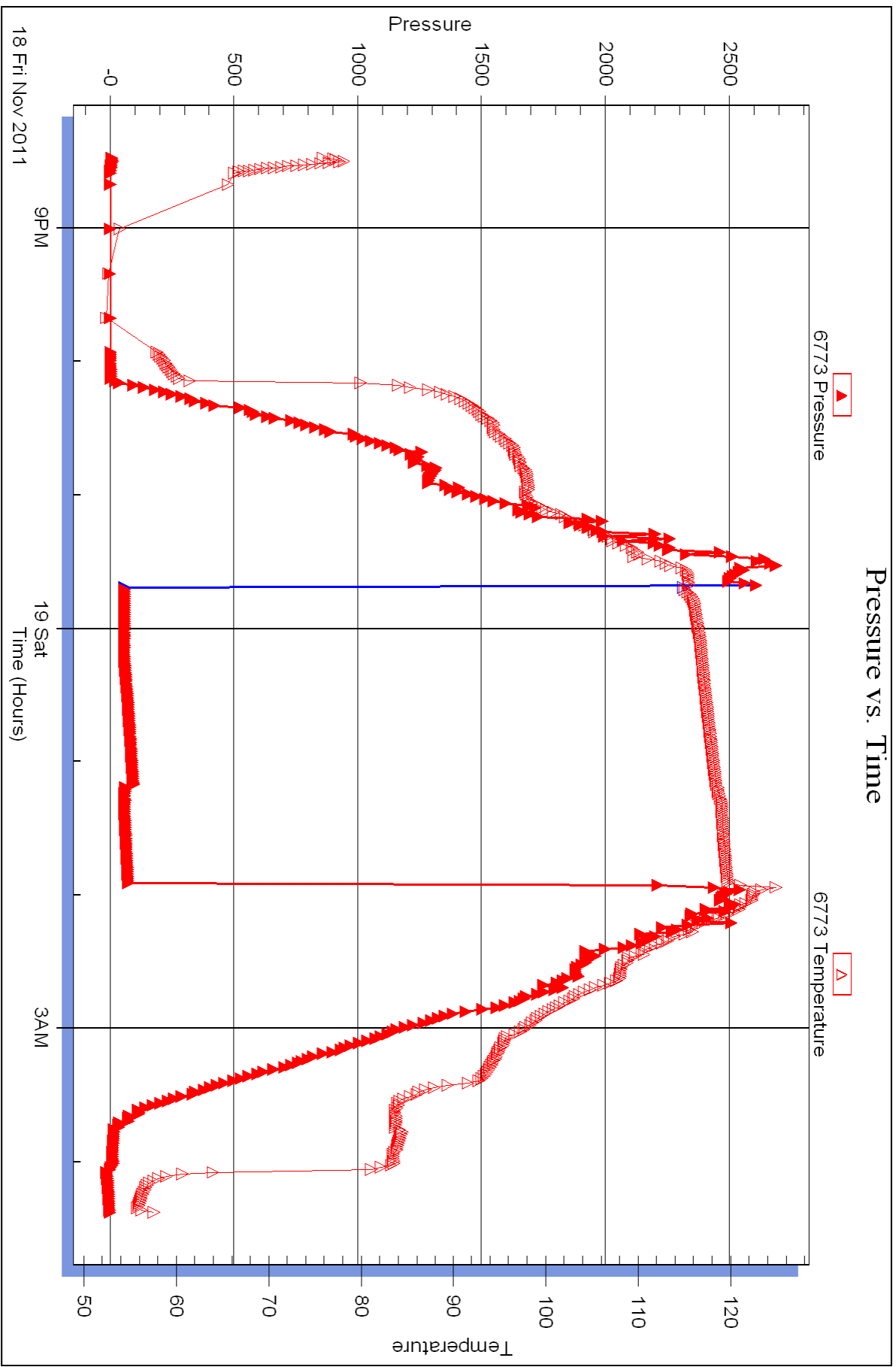


Serial #: 6773

Outside Chieftain Oil Co

Blevins A #1

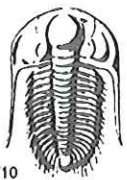
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 44106

Printed: 2011.11.23 @ 10:32:47



# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
NOV 17 2011

## Test Ticket

NO. 44036

Well Name & No. Blevins A 1 BY: \_\_\_\_\_ Test No. 1 Date 11/14/11  
 Company Chieftain oil co Elevation 1370 KB 1362 GL \_\_\_\_\_  
 Address PO Box 124 Kiowa, KS 67070  
 Co. Rep / Geo. Dave Barker Rig Fossil Rig 2  
 Location: Sec. 25 Twp. 34S Rge. 11W Co. Barber State KS

Interval Tested 3919 - 3985 Zone Tested Stalnaker  
 Anchor Length 66 Drill Pipe Run 3781 Mud Wt. 9.3  
 Top Packer Depth 3914 Drill Collars Run 124 Vis 45  
 Bottom Packer Depth 3919 Wt. Pipe Run 0 WL 11.0  
 Total Depth 3985 Chlorides 6500 ppm System LCM \_\_\_\_\_

Blow Description IF: Strong Blow, BOB in 45 seconds  
ISI: 1 inch Blowback  
~~IF: Strong Blow, BOB immediate, GTS in 4 minutes, caught sample, TSTM~~  
FST: 1 inch Blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>3657</u>	<u>GIP</u>				
<u>248</u>	<u>GWCM</u>	<u>10</u>		<u>30</u>	<u>60</u>
<u>186</u>	<u>GMCW</u>	<u>5</u>		<u>53</u>	<u>42</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 434 BHT 112 Gravity NIC API RW .13 @ 40 °F Chlorides 115000 ppm

(A) Initial Hydrostatic 1919  Test 1125 T-On Location 19:30  
 (B) First Initial Flow 59  Jars 250 T-Started 20:29  
 (C) First Final Flow 142  Safety Joint 75 T-Open 22:55  
 (D) Initial Shut-In 1588  Circ Sub \_\_\_\_\_ T-Pulled 02:42  
 (E) Second Initial Flow 154  Hourly Standby 1 hr 100 T-Out 05:34  
 (F) Second Final Flow 210  Mileage (1302) 182 Comments \_\_\_\_\_  
 (G) Final Shut-In 1591  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1863  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 8  
 Day Standby \_\_\_\_\_ Total 1732  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1732

Approved By Q B Our Representative [Signature]

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

RECEIVED  
NOV 22 2011

## Test Ticket

NO. 44106

Well Name & No. Blevins A #1 Test No. 2 Date 11-18-11  
 Company Chieftain Oil Co INC Elevation 1370 KB 1362 GL  
 Address 605 S 6th PO Box 124 Kiowa KS 67070 + 1912  
 Co. Rep / Geo. Ron Moltz / Dave Barker Rig Fossil DRLy Rig #2  
 Location: Sec. 25 Twp. 34s Rge. 11w Co. Barber State KS

Interval Tested 5018 - 5089 Zone Tested Misener  
 Anchor Length 71' Drill Pipe Run 4818 Mud Wt. 9.3  
 Top Packer Depth 5013 Drill Collars Run 186 Vis SS  
 Bottom Packer Depth 5018 Wt. Pipe Run 0 WL 9.0  
 Total Depth 5089 Chlorides 5100 ppm System LCM 5H

Blow Description IF: weak blow 1"  
FSI: NO blow back  
FF: weak surface blow. blow died  
FSI: NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
70'	MUD			100	

Rec Total 70' BHT — Gravity — API RW — @ — °F Chlorides 5100 ppm

(A) Initial Hydrostatic <u>2596</u>	<input checked="" type="checkbox"/> Test <u>1325</u>	T-On Location <u>18:30</u>
(B) First Initial Flow <u>36</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:19</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:41</u>
(D) Initial Shut-In <u>80</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2:00</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>4:15</u>
(F) Second Final Flow <u>53</u>	<input checked="" type="checkbox"/> Mileage <u>120 miles 168</u>	Comments <u>Finished test at 4:30</u>
(G) Final Shut-In <u>59</u>	<input type="checkbox"/> Sampler <u>x2</u>	<u>11-19-11 picked up tools</u>
(H) Final Hydrostatic <u>2483</u>	<input type="checkbox"/> Straddle	<u>at 10:00 11-20-11</u>

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 15  
 Final Shut-In 30

Ruined Shale Packer  
 Ruined Packer 320"  
 Extra Packer  
 Extra Copies  
 Extra Recorder  
 Day Standby 1 day + 5 3/4 hrs  
 Accessibility  
 Sub Total 1986

Sub Total 1170  
 Total -3106  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Chris St...

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.