

15-007-22943

4-33s-10w



## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co.Inc.**

PO Box 124  
Kiowa KS 67070

ATTN: Molz / Ratzlaff

**4-33s-10w Barber Ks.**

**Blick#1**

Start Date: 2006.02.26 @ 11:52:36

End Date: 2006.02.26 @ 19:57:21

Job Ticket #: 24356      DST #: 1

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.

PO Box 124  
Kiowa KS 67070

ATTN: Molz / Ratzlaff

**Blick#1**

**4-33s-10w Barber Ks.**

Job Ticket: 24356

**DST#: 1**

Test Start: 2006.02.26 @ 11:52:36

### GENERAL INFORMATION:

Formation: **Misner**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 14:51:21

Time Test Ended: 19:57:21

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **23**

Interval: **4830.00 ft (KB) To 4860.00 ft (KB) (TVD)**

Total Depth: **4860.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **1538.00 ft (KB)**

**1530.00 ft (CF)**

**KB to GR/CF: 8.00 ft**

**Serial #: 6771** Inside

Press@RunDepth: **22.26 psig @ 4831.00 ft (KB)**

Start Date: **2006.02.26**

End Date:

**2006.02.26**

Start Time: **11:52:41**

End Time:

**19:57:20**

Capacity: **7000.00 psig**

Last Calib.: **2006.02.26**

Time On Btm: **2006.02.26 @ 14:48:51**

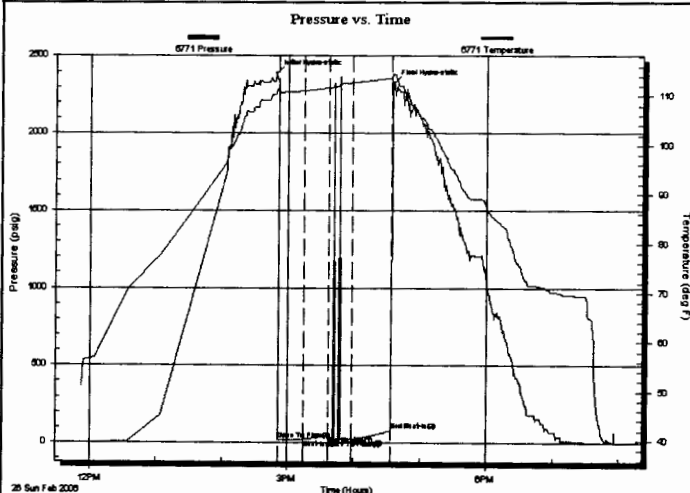
Time Off Btm: **2006.02.26 @ 16:35:06**

**TEST COMMENT:** IF: Weak surge. No blow.

IS: No blow.

FF: No blow. Flushed tool 6 & 10 mins. in FFP. Very weak blow. Dead in 4 mins.

FS: No blow.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2385.96         | 110.47       | Initial Hydro-static |
| 3           | 16.18           | 110.41       | Open To Flow (1)     |
| 26          | 21.48           | 111.06       | Shut-In(1)           |
| 48          | 46.03           | 111.66       | End Shut-In(1)       |
| 48          | 18.10           | 111.67       | Open To Flow (2)     |
| 70          | 22.26           | 112.75       | Shut-In(2)           |
| 105         | 78.54           | 113.65       | End Shut-In(2)       |
| 107         | 2324.16         | 114.36       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 15.00       | Drig. mud   | 0.07         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc.

Blick#1

PO Box 124  
Kiowa KS 67070

4-33s-10w Barber Ks.

Job Ticket: 24356

DST#: 1

ATTN: Molz / Ratzlaff

Test Start: 2006.02.26 @ 11:52:36

### Tool Information

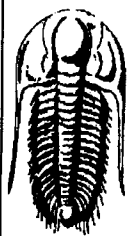
|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4431.00 ft | Diameter: 3.80 inches | Volume: 62.16 bbl | Tool Weight:           | 2100.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer:  | 22000.00 lb |
| Drill Collar:             | Length: 380.00 ft  | Diameter: 2.25 inches | Volume: 1.87 bbl  | Weight to Pull Loose:  | 75000.00 lb |
|                           |                    | Total Volume:         | 64.03 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 3.00 ft            |                       |                   | String Weight: Initial | 58000.00 lb |
| Depth to Top Packer:      | 4830.00 ft         |                       |                   | Final                  | 59000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 30.00 ft           |                       |                   |                        |             |
| Tool Length:              | 52.00 ft           |                       |                   |                        |             |
| Number of Packers:        | 2                  | Diameter:             | 6.75 inches       |                        |             |

Tool Comments:

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

|                 |       |       |         |         |                               |
|-----------------|-------|-------|---------|---------|-------------------------------|
| Change Over Sub | 1.00  |       |         | 4809.00 |                               |
| Shut In Tool    | 5.00  |       |         | 4814.00 |                               |
| Hydraulic tool  | 5.00  |       |         | 4819.00 |                               |
| Safety Joint    | 2.00  |       |         | 4821.00 |                               |
| Packer          | 4.00  |       |         | 4825.00 | 22.00 Bottom Of Top Packer    |
| Packer          | 5.00  |       |         | 4830.00 |                               |
| Stubb           | 1.00  |       |         | 4831.00 |                               |
| Recorder        | 0.00  | 6771  | Inside  | 4831.00 |                               |
| Perforations    | 24.00 |       |         | 4855.00 |                               |
| Recorder        | 0.00  | 13222 | Outside | 4855.00 |                               |
| Bullnose        | 5.00  |       |         | 4860.00 | 30.00 Bottom Packers & Anchor |

**Total Tool Length: 52.00**



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## DRILL STEM TEST REPORT

### FLUID SUMMARY

Chieftain Oil Co. Inc.

**Blick#1**

PO Box 124  
Kiowa KS 67070

**4-33s-10w Barber Ks.**

Job Ticket: 24356

**DST#: 1**

ATTN: Molz / Ratzlaff

Test Start: 2006.02.26 @ 11:52:36

### 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:

5000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 15.00        | Drig.mud    | 0.074         |

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

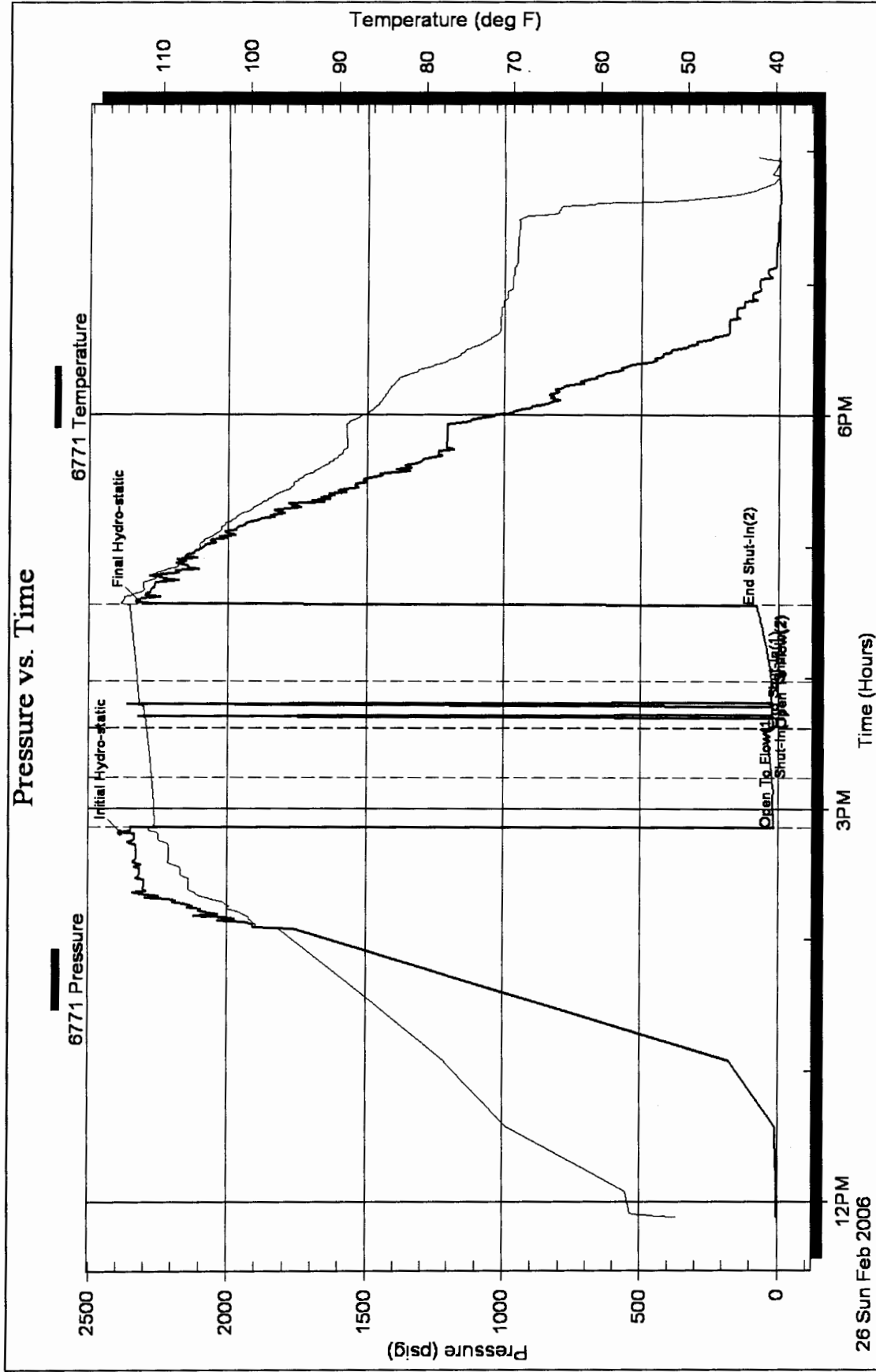
Serial #: 6771

Inside

Chieftain Oil Co. Inc.

4-33s-10w Barber Ks.

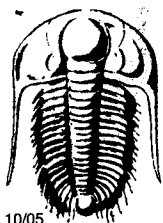
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 24356

Printed: 2006.03.06 @ 14:26:26 Page 5



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

8472

No 24356

## Test Ticket

Well Name & No. Black #1 Test No. 1 Date 2-26-06  
 Company Chieftain Oil Co. Inc. Zone Tested Minner  
 Address P.O. Box 124, Kiowa Ks. 67070 Elevation 1538 KB 1530 GL  
 Co. Rep / Geo. Moly / Ratylaff Rig Sunwest Oily. #1  
 Location: Sec. 4 Twp. 33 S Rge. 10 W Co. Barber State Ks.  
 Comment: \_\_\_\_\_ Release date / time: \_\_\_\_\_

Interval Tested 4830 - 4860' Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 59,000  
 Anchor Length 30' Wt. Set Lbs. 23,000 Wt. Pulled Loose/Lbs. 75,000  
 Top Packer Depth 4825' Tool Weight 2100 lb  
 Bottom Packer Depth 4830' Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓  
 Total Depth 4860' Wt. Pipe Run None Drill Collar Run 380'  
 Mud Wt. 9.4 LCM 3# Vis. 52 WL 10.4" Drill Pipe Size 4 1/2" Ft. Run ~~4431~~ 4431  
 Blow Description IF: weak surge, No blow. ISI: No blow.

FF: No blow Flushed tool 6 & 10 mins. in to FFP. Very weak 2 below. Dred in 4 mins. FSI: No blow

Recovery - Total Feet 15 GIP — Ft. in DC 15 Ft. in DP 0  
 Rec. 15 Feet of Dry Mud %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 Rec. \_\_\_\_\_ Feet of \_\_\_\_\_ %gas %oil %water %mud  
 BHT 114 °F Gravity N/A °API D @ — °F Corrected Gravity N/A °API  
 RW N.C. @ — °F Chlorides 5,000 ppm Recovery \_\_\_\_\_ Chlorides 5,000 ppm System

|                                  | AK-1 | Alpine |                 |       |                                 |
|----------------------------------|------|--------|-----------------|-------|---------------------------------|
| (A) Initial Hydrostatic Mud      | 2386 | PSI    | Recorder No.    | 6771  | Test <u>✓ 1100</u>              |
| (B) First Initial Flow Pressure  | 16   | PSI    | (depth)         | 4831' | Jars _____                      |
| (C) First Final Flow Pressure    | 21   | PSI    | Recorder No.    | 13222 | Safety Jt. <u>✓ 75</u>          |
| (D) Initial Shut-In Pressure     | 46   | PSI    | (depth)         | 4855' | Circ Sub _____                  |
| (E) Second Initial Flow Pressure | 18   | PSI    | Recorder No.    | —     | Sampler _____                   |
| (F) Second Final Flow Pressure   | 22   | PSI    | (depth)         | —     | Straddle _____                  |
| (G) Final Shut-In Pressure       | 79   | PSI    | Initial Opening | 15    | Ext. Packer _____               |
| (Q) Final Hydrostatic Mud        | 2324 | PSI    | Initial Shut-In | 30    | Shale Packer _____              |
|                                  |      |        | Final Flow      | 20    | Ruined Packer _____             |
|                                  |      |        | Final Shut-In   | 30    | Mileage <u>90</u> <u>192.50</u> |
|                                  |      |        | T-On Location   | 1104  | Sub Total: <u>1287.50</u>       |
|                                  |      |        | T-Started       | 1152  | Std. By _____                   |
|                                  |      |        | T-Open          | 1451  | Acc. Chg: _____                 |
|                                  |      |        | T-Pulled        | 1624  | Other: _____                    |
|                                  |      |        | T-Out           | 1957  | Total: <u>1287.50</u>           |

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Approved By Andrew Ratylaff  
 Our Representative Cory Twolaney

# CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

