

## DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co Inc**

PO Box 124  
Kiowa KS 67070

ATTN: Arden Ratzlaff

**12 33 11W Barber KS**

**Sisters A #1**

Start Date: 2007.09.15 @ 13:37:17

End Date: 2007.09.15 @ 19:48:17

Job Ticket #: 28435                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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**TESTING, INC**

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Kiowa KS 67070

ATTN: Arden Ratzlaff

**Sisters A #1**

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Job Ticket: 28435

**DST#: 1**

Test Start: 2007.09.15 @ 13:37:17

### GENERAL INFORMATION:

Formation: **Misner Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:22:47

Time Test Ended: 19:48:17

Test Type: Conventional Bottom Hole

Tester: Jerry Adams

Unit No: 36

Interval: **4935.00 ft (KB) To 4965.00 ft (KB) (TVD)**

Total Depth: 4965.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1616.00 ft (KB)

1609.00 ft (CF)

KB to GR/CF: 7.00 ft

**Serial #: 6798**

**Inside**

Press@RunDepth: 38.74 psig @ 4936.00 ft (KB)

Start Date: 2007.09.15

End Date:

2007.09.15

Start Time: 13:37:22

End Time:

19:48:16

Capacity: 7000.00 psig

Last Calib.: 2007.09.15

Time On Btm: 2007.09.15 @ 15:20:47

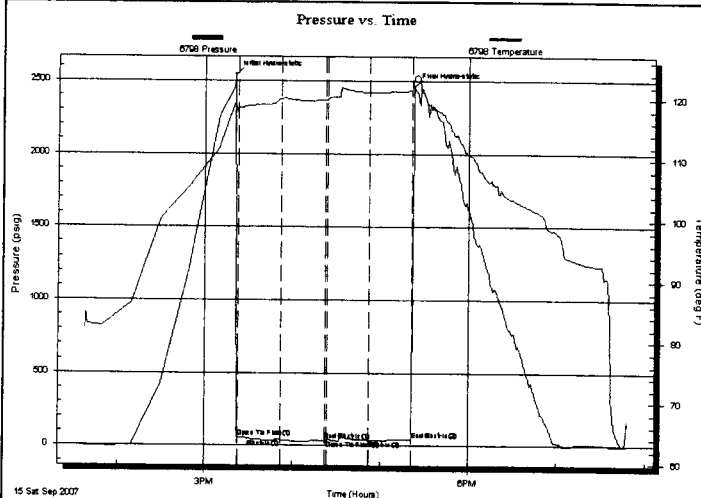
Time Off Btm: 2007.09.15 @ 17:22:47

TEST COMMENT: IF Weak surface blow Dead in 18 mins.

ISI No blow

FF No blow Flush tool after 10 mins. No blow

FSI No blow



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2540.01         | 119.19       | Initial Hydro-static |
| 2           | 58.32           | 118.64       | Open To Flow (1)     |
| 31          | 39.82           | 120.10       | Shut-In(1)           |
| 62          | 34.45           | 119.88       | End Shut-In(1)       |
| 63          | 33.48           | 119.90       | Open To Flow (2)     |
| 92          | 38.74           | 121.19       | Shut-In(2)           |
| 121         | 40.12           | 121.41       | End Shut-In(2)       |
| 122         | 2460.41         | 123.53       | Final Hydro-static   |

### Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 60.00       | 100%M       | 0.30         |
| 0.00        |             | 0.00         |
|             |             |              |
|             |             |              |
|             |             |              |
|             |             |              |

### Gas Rates

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



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TOOL DIAGRAM

Chieftain Oil Co Inc

**Sisters A #1**

PO Box 124  
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**12 33 11W Barber KS**

Job Ticket: 28435

**DST#: 1**

ATTN: Arden Ratzlaff

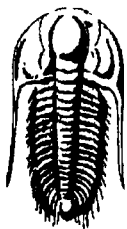
Test Start: 2007.09.15 @ 13:37:17

### Tool Information

|                           |                    |                       |                   |                        |             |
|---------------------------|--------------------|-----------------------|-------------------|------------------------|-------------|
| Drill Pipe:               | Length: 4705.00 ft | Diameter: 3.80 inches | Volume: 66.00 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:  | 20000.00 lb |
| Drill Collar:             | Length: 236.00 ft  | Diameter: 2.25 inches | Volume: 1.16 bbl  | Weight to Pull Loose:  | 80000.00 lb |
|                           |                    | Total Volume:         | 67.16 bbl         | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 29.00 ft           |                       |                   | String Weight: Initial | 65000.00 lb |
| Depth to Top Packer:      | 4935.00 ft         |                       |                   | Final                  | 65000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                   |                        |             |
| Interval between Packers: | 30.00 ft           |                       |                   |                        |             |
| Tool Length:              | 53.00 ft           |                       |                   |                        |             |
| Number of Packers:        | 2                  | Diameter:             | 6.75 inches       |                        |             |
| Tool Comments:            |                    |                       |                   |                        |             |

### Tool Description

| Tool Description          | Length (ft)  | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Shut In Tool              | 5.00         |            |          | 4917.00    |                               |
| Hydraulic tool            | 5.00         |            |          | 4922.00    |                               |
| Safety Joint              | 3.00         |            |          | 4925.00    |                               |
| Packer                    | 5.00         |            |          | 4930.00    | 23.00 Bottom Of Top Packer    |
| Packer                    | 5.00         |            |          | 4935.00    |                               |
| Stubb                     | 1.00         |            |          | 4936.00    |                               |
| Recorder                  | 0.00         | 6798       | Inside   | 4936.00    |                               |
| Perforations              | 26.00        |            |          | 4962.00    |                               |
| Recorder                  | 0.00         | 13249      | Outside  | 4962.00    |                               |
| Bullnose                  | 3.00         |            |          | 4965.00    | 30.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>53.00</b> |            |          |            |                               |



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### FLUID SUMMARY

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Job Ticket: 28435

**DST#: 1**

ATTN: Arden Ratzlaff

Test Start: 2007.09.15 @ 13:37:17

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 10.38 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 2200.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

### Recovery Information

Recovery Table

| Length<br>ft | Description | Volume<br>bbl |
|--------------|-------------|---------------|
| 60.00        | 100%M       | 0.295         |
| 0.00         |             | 0.000         |

Total Length: 60.00 ft

Total Volume: 0.295 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

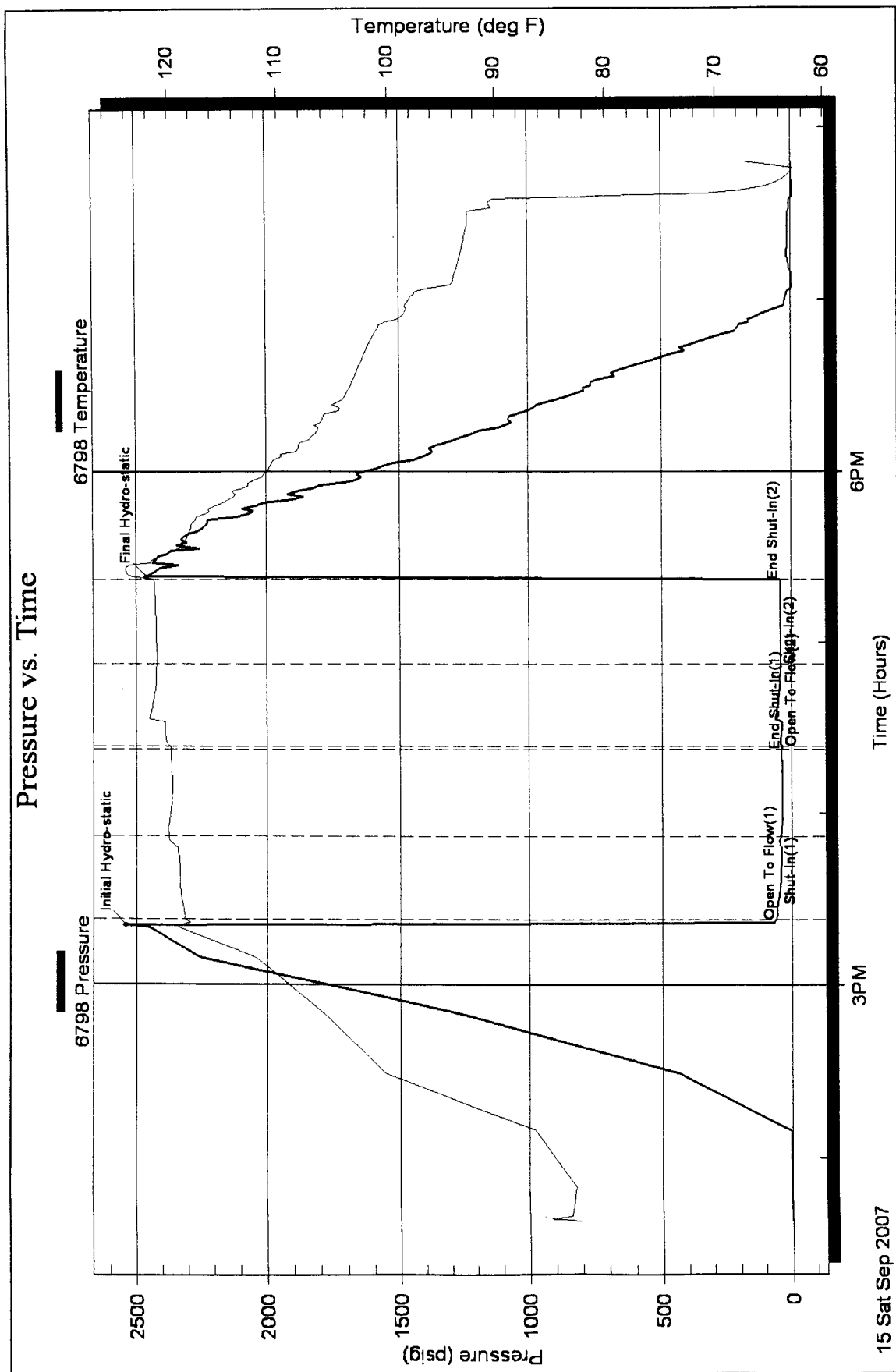
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

# Pressure vs. Time



# CHART PAGE

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

