

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Blevins #1

2-35s-11w Barber,KS

Start Date: 2011.11.02 @ 20:45:15

End Date: 2011.11.03 @ 06:44:00

Job Ticket #: 44031 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Chieftain Oil Co

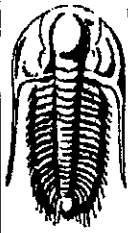
2-35s-11w Barber,KS

Blevins #1

DST # 1

Simpson

2011.11.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-11w Barber,KS

PO Box 124
Kiowa, KS 67070

Blevins #1

Job Ticket: 44031

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2011.11.02 @ 20:45:15

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:40:15

Time Test Ended: 06:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: **5193.00 ft (KB) To 5225.00 ft (KB) (TVD)**

Reference Elevations: 1320.00 ft (KB)

Total Depth: 5225.00 ft (KB) (TVD)

1312.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6798 Inside

Press@RunDepth: 160.62 psig @ 5194.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.11.02

End Date: 2011.11.03

Last Calib.: 2011.11.03

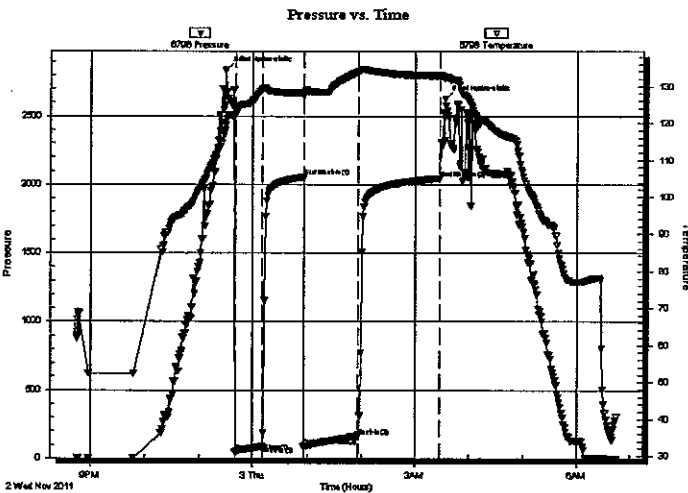
Start Time: 20:45:16

End Time: 06:44:00

Time On Btm: 2011.11.02 @ 23:30:15

Time Off Btm: 2011.11.03 @ 03:33:30

TEST COMMENT: IF: Fair Blow, 7 1/2 inches
IS: No Blow back
FF: Weak Blow, 2 inches
FS: No Blow back



PRESSURE SUMMARY

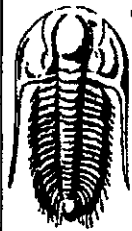
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2836.50 | 119.47 | Initial Hydro-static |
| 10 | 48.86 | 122.45 | Open To Flow (1) |
| 41 | 87.51 | 129.29 | Shut-In(1) |
| 86 | 2052.61 | 128.20 | End Shut-In(1) |
| 86 | 91.03 | 127.64 | Open To Flow (2) |
| 146 | 160.62 | 133.98 | Shut-In(2) |
| 237 | 2043.42 | 132.89 | End Shut-In(2) |
| 244 | 2626.02 | 132.44 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 120.00 | Water | 0.59 |
| 62.00 | MCW 30%M 70%W | 0.30 |
| 76.00 | Mud | 0.37 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co

2-35s-11w Barber, KS

PO Box 124
Kiowa, KS 67070

Blevins #1

Job Ticket: 44031

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2011.11.02 @ 20:45:15

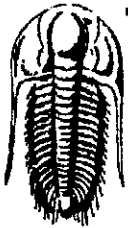
Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4881.00 ft | Diameter: 3.80 inches | Volume: 68.47 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: 313.00 ft | Diameter: 2.25 inches | Volume: 1.54 bbl | Weight to Pull Loose: 120000.0 lb |
| | | | <u>Total Volume: 70.01 bbl</u> | Tool Chased 8.00 ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 82000.00 lb |
| Depth to Top Packer: | 5193.00 ft | | | Final 82000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 32.00 ft | | | |
| Tool Length: | 54.00 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 | | | 5176.00 | |
| Hydraulic tool | 5.00 | | | 5181.00 | |
| Safety Joint | 2.00 | | | 5183.00 | |
| Packer | 5.00 | | | 5188.00 | 22.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 5193.00 | |
| Stubb | 1.00 | | | 5194.00 | |
| Recorder | 0.00 | 6798 | Inside | 5194.00 | |
| Recorder | 0.00 | 8367 | Outside | 5194.00 | |
| Perforations | 28.00 | | | 5222.00 | |
| Bullnose | 3.00 | | | 5225.00 | 32.00 Bottom Packers & Anchor |
| Total Tool Length: | 54.00 | | | | |



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co

2-35s-11w Barber,KS

PO Box 124
Kiowa, KS 67070

Blevins #1

Job Ticket: 44031

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2011.11.02 @ 20:45:15

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: 80000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 120.00 | Water | 0.590 |
| 62.00 | MCW 30%M 70%W | 0.305 |
| 76.00 | Mud | 0.374 |

Total Length: 258.00 ft Total Volume: 1.269 bbl

Num Fluid Samples: 0

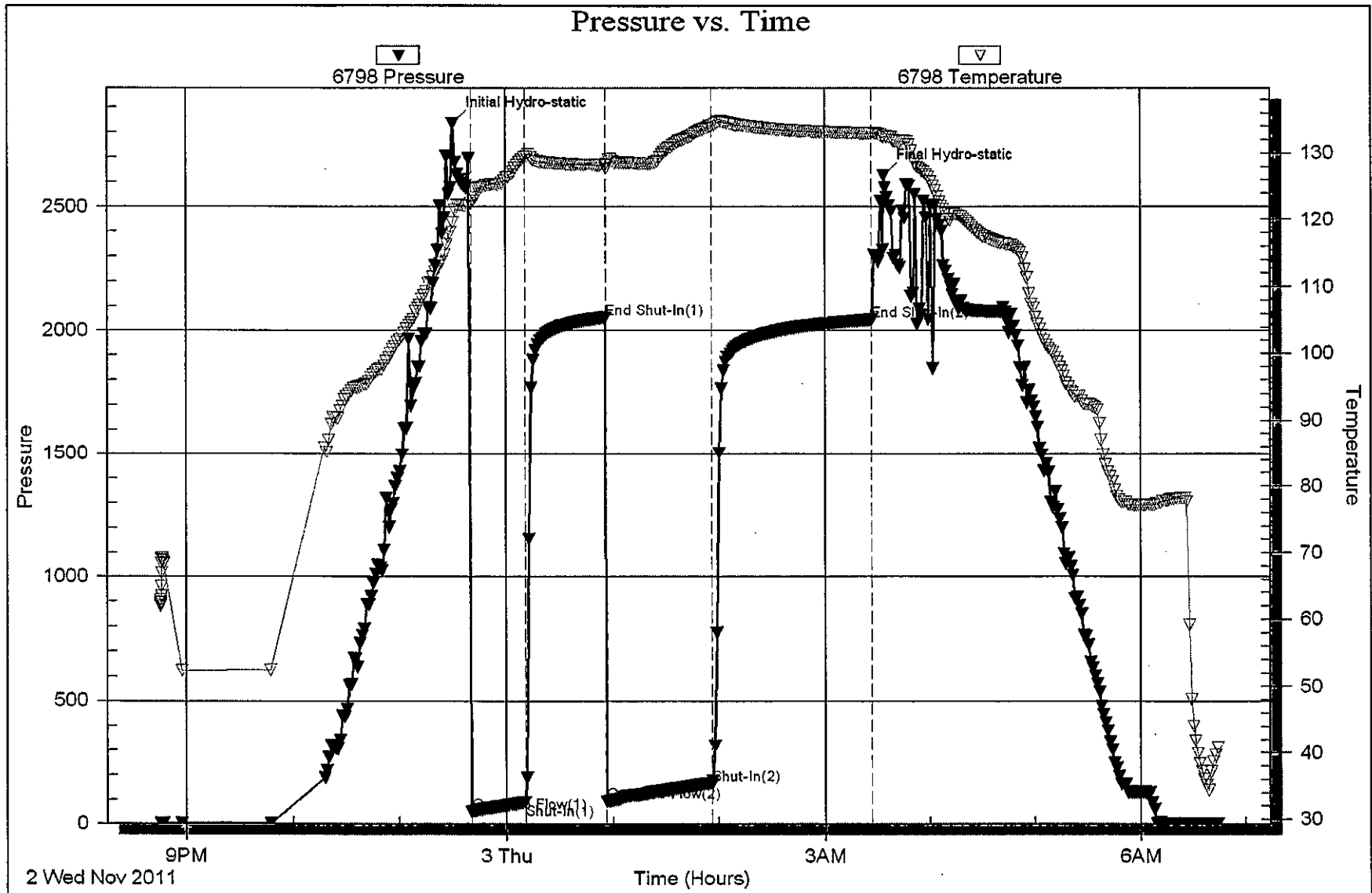
Num Gas Bombs: 0

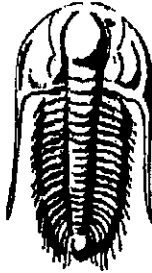
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW/w as .16 @ 44 degrees





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co**

PO Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

Blevins #1

2-35s-11w Barber,KS

Start Date: 2011.11.03 @ 20:59:28

End Date: 2011.11.04 @ 04:47:13

Job Ticket #: 44032 DST #: 2

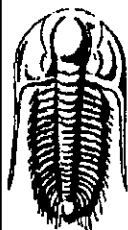
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2011.11.11 @ 09:36:37

Chieftain Oil Co
2-35s-11w Barber,KS
Blevins #1
DST # 2
Simpson
2011.11.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Chieftain Oil Co

2-35s-11w Barber, KS

PO Box 124
Kiowa, KS 67070

Blevins #1

Job Ticket: 44032

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2011.11.03 @ 20:59:28

GENERAL INFORMATION:

Formation: **Simpson**

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

Time Tool Opened: 23:58:43

Time Test Ended: 04:47:13

Test Type: Conventional Bottom Hole (Reset)

Tester: Leal Cason

Unit No: 45

Interval: **5224.00 ft (KB) To 5230.00 ft (KB) (TVD)**

Total Depth: 5230.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1320.00 ft (KB)

1312.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press@RunDepth: 140.19 psig @ 5225.00 ft (KB)

Start Date: 2011.11.03

End Date:

2011.11.04

Capacity: 8000.00 psig

Last Calib.: 2011.11.04

Start Time: 20:59:29

End Time:

04:47:13

Time On Btm: 2011.11.03 @ 23:57:28

Time Off Btm: 2011.11.04 @ 02:34:13

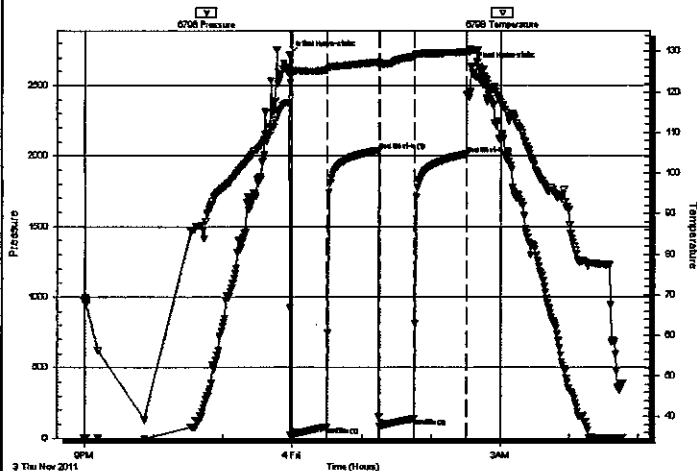
TEST COMMENT: IF: Weak Blow, 3 1/2 inches

IS: No Blow

FF: Weak Blow, 2 inches

FSI: No Blow

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2716.37 | 117.09 | Initial Hydro-static |
| 2 | 23.12 | 123.81 | Open To Flow (1) |
| 32 | 81.89 | 125.40 | Shut-In(1) |
| 77 | 2038.85 | 127.41 | End Shut-In(1) |
| 78 | 85.54 | 126.89 | Open To Flow (2) |
| 107 | 140.19 | 128.72 | Shut-In(2) |
| 153 | 2012.30 | 129.79 | End Shut-In(2) |
| 157 | 2633.10 | 130.62 | Final Hydro-static |

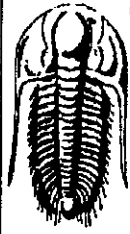
Recovery

| Length (ft) | Description | Volume (bb) |
|-------------|---------------|-------------|
| 240.00 | Water | 1.18 |
| 10.00 | MCW 10%M 90%W | 0.05 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co

2-35s-11w Barber,KS

PO Box 124
Kiova, KS 67070

Blevins #1

Job Ticket: 44032

DST#:2

ATTN: Arden Ratzlaff

Test Start: 2011.11.03 @ 20:59:28

Tool Information

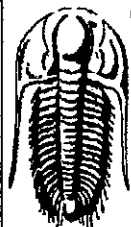
| | | | | |
|---------------------------|--------------------|-------------------------|-------------------|------------------------------------|
| Drill Pipe: | Length: 4912.00 ft | Diameter: 3.80 inches | Volume: 68.90 bbl | Tool Weight: 2100.00 lb |
| Heavy Wt. Pipe: | Length: ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 313.00 ft | Diameter: 2.25 inches | Volume: 1.54 bbl | Weight to Pull Loose: 130000.0 lb |
| | | Total Volume: 70.44 bbl | | Tool Chased ft |
| Drill Pipe Above KB: | 23.00 ft | | | String Weight: Initial 80000.00 lb |
| Depth to Top Packer: | 5224.00 ft | | | Final 80000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 6.00 ft | | | |
| Tool Length: | 28.00 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 |
|---------------------------|--------------|------------|----------|------------|------------------------------|
| Shut In Tool | 5.00 | | | 5207.00 | |
| Hydraulic tool | 5.00 | | | 5212.00 | |
| Safety Joint | 2.00 | | | 5214.00 | |
| Packer | 5.00 | | | 5219.00 | 22.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 5224.00 | |
| Stubb | 1.00 | | | 5225.00 | |
| Recorder | 0.00 | 6798 | Inside | 5225.00 | |
| Recorder | 0.00 | 8367 | Outside | 5225.00 | |
| Perforations | 2.00 | | | 5227.00 | |
| Bullnose | 3.00 | | | 5230.00 | 6.00 Bottom Packers & Anchor |
| Total Tool Length: | 28.00 | | | | |



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2-35s-11w Barber,KS

PO Box 124
Kiowa, KS 67070

Blevins #1

Job Ticket: 44032

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2011.11.03 @ 20:59:28

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: 80000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 4800.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 240.00 | Water | 1.180 |
| 10.00 | MCV 10%M 90%W | 0.049 |

Total Length: 250.00 ft Total Volume: 1.229 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .19 @ 36 degrees

