

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

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

605 S.6th, P.O.Box 124
Kiowa KS 67070

ATTN: Bob Stolzle

18-33s-10w Barber KS

Newton #2

Start Date: 2011.02.21 @ 21:37:22

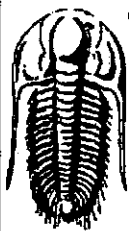
End Date: 2011.02.22 @ 05:23:22

Job Ticket #: 041608 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



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Newton #2

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Job Ticket: 041608

DST#: 1

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Test Start: 2011.02.21 @ 21:37:22

GENERAL INFORMATION:

Formation: **Misener**

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

Time Tool Opened: 23:59:22

Time Test Ended: 05:23:22

Test Type: **Conventional Bottom Hole**

Tester: **Gary Pevoteaux**

Unit No: **56**

Interval: **4936.00 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: **1611.00 ft (KB)**

1601.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: **8167**

Inside

Press@RunDepth: **30.39 psig @ 4937.00 ft (KB)**

Start Date: **2011.02.21**

End Date:

2011.02.22

Capacity: **8000.00 psig**

Last Calib.: **2011.02.22**

Start Time: **21:37:27**

End Time:

05:23:21

Time On Btm: **2011.02.21 @ 23:58:22**

Time Off Btm: **2011.02.22 @ 02:38:22**

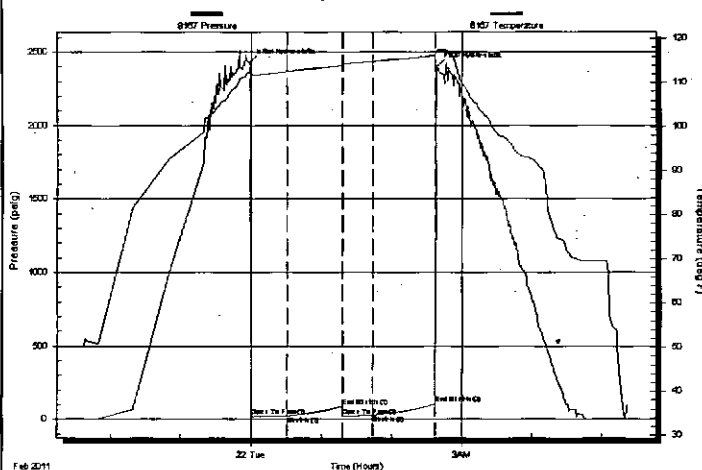
TEST COMMENT: IF:Weak blow . 1/2 2 1/2".

ISI:No blow.

FF:Weak blow . 1/2 - 1 1/2".

FSI:No blow.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2427.08	112.41	Initial Hydro-static
1	19.90	111.69	Open To Flow (1)
32	23.00	112.60	Shut-In(1)
79	89.36	113.96	End Shut-In(1)
80	20.07	114.00	Open To Flow (2)
105	30.39	114.90	Shut-In(2)
159	106.78	116.18	End Shut-In(2)
160	2401.55	117.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	GCM/w few o specs 15%g 85% m	0.10
0.00	105 ft. of GIP	0.00

Gas Rates

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

Chieftain Oil Co. Inc.

Newton #2

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Kiowa KS 67070

18-33s-10w Barber KS

Job Ticket: 041608

DST#: 1

ATTN: Bob Stolzle

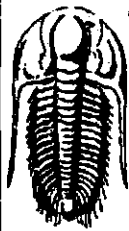
Test Start: 2011.02.21 @ 21:37:22

Tool Information

Drill Pipe:	Length: 4769.00 ft	Diameter: 3.80 inches	Volume: 66.90 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: 150.00 ft	Diameter: 2.25 inches	Volume: 0.74 bbl	Weight to Pull Loose:	73000.00 lb
		Total Volume:	67.64 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4936.00 ft			Final	65000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	29.00 ft				
Tool Length:	57.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4909.00	
Shut in tool	5.00			4914.00	
HMV	5.00			4919.00	
Jars	5.00			4924.00	
Safety Joint	3.00			4927.00	
Packer	4.00			4931.00	28.00 Bottom Of Top Packer
Packer	5.00			4936.00	
Stubb	1.00			4937.00	
Recorder	0.00	8167	Inside	4937.00	
Recorder	0.00	8370	Outside	4937.00	
Perforations	23.00			4960.00	
Bullnose	5.00			4965.00	29.00 Bottom Packers & Anchor

Total Tool Length: 57.00



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FLUID SUMMARY

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Newton #2

605 S.6th, P.O. Box 124
Kiowa KS 67070

18-33s-10w Barber KS

Job Ticket: 041608

DST#: 1

ATTN: Bob Stolzle

Test Start: 2011.02.21 @ 21:37:22

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:

3100 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3100.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	GCM/w few o specs 15%g 85%m	0.098
0.00	105 ft. of GIP	0.000

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

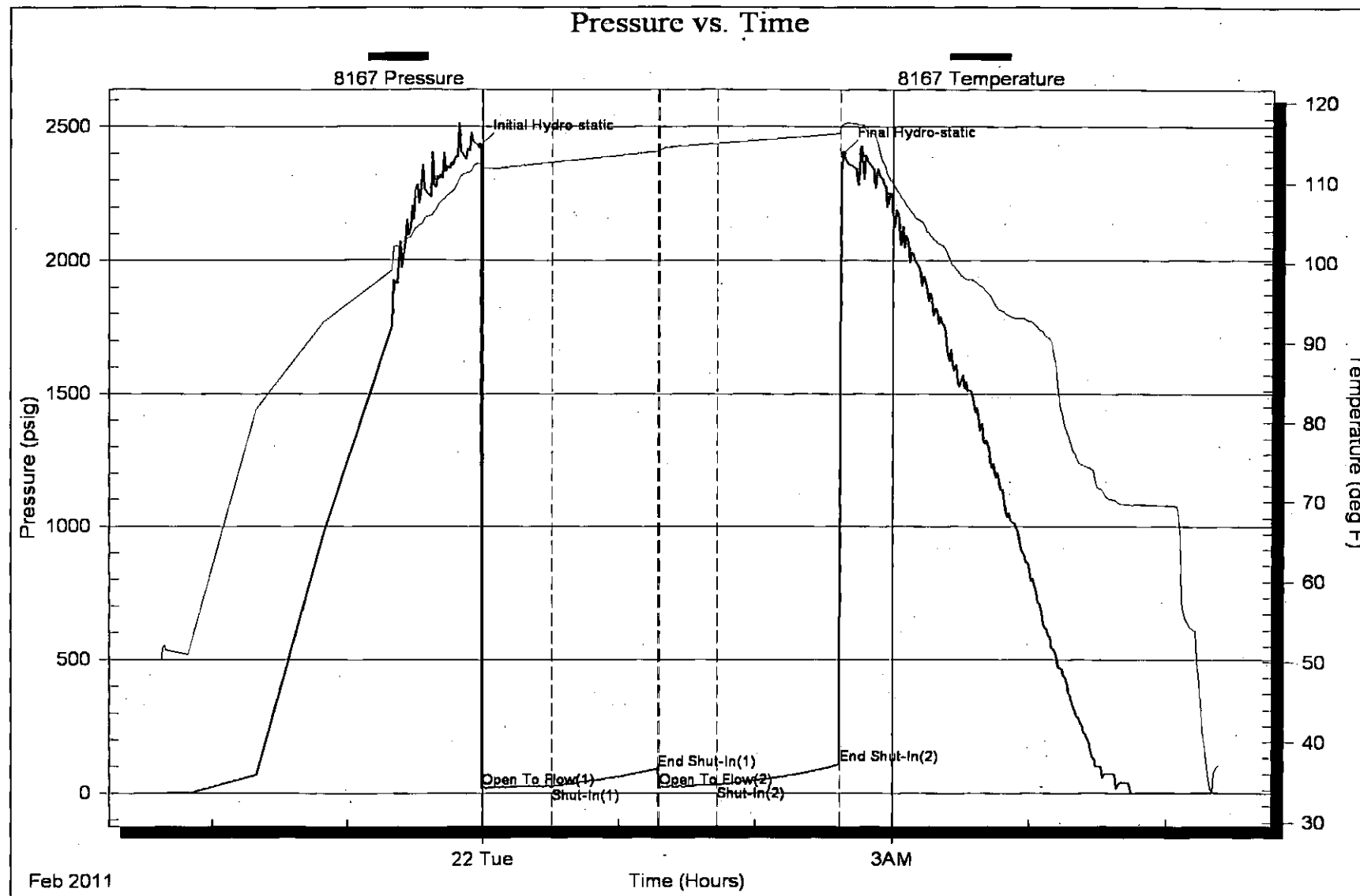
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED
FEB 24 2011

Test Ticket

NO. 04160815455

Well Name & No. NEWTON #2 Test No. 1 Date 2-21-11
 Company CHEFTAIN Oil Co. INC. Elevation 1611 KB 1601 GL
 Address 605 S. 6TH, P.O. Box 124, Kewanee KS 67070
 Co. Rep / Geo. BOB STOLZE Rig HARST DRILL
 Location: Sec. 18 Twp. 33S Rge. 10W Co. BARBER State KS

Interval Tested 4936-4965' Zone Tested MESSENER
 Anchor Length 29' Drill Pipe Run 4769' Mud Wt. 9.3
 Top Packer Depth 4931' Drill Collars Run 150' Vis 53
 Bottom Packer Depth 4936' Wt. Pipe Run 0 WL 6.6cc
 Total Depth 4965' Chlorides 3100 ppm System LCM 4II

Blow Description IF: WEAK BLOW. 1/2 - 2 1/2". ISI: NO BLOW.

FF: WEAK BLOW. 1/2 - 1 1/2". FSI: NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>105</u>	<u>GIP</u>				
<u>20</u>	<u>GEM W/O PAPER</u>	<u>15</u>			<u>85</u>

Rec Total 20' BHT 116 Gravity N/A API RW N.C. @ — °F Chlorides 3100 ppm
 (A) Initial Hydrostatic 2427 ☒ Test 1225 T-On Location 2012
 (B) First Initial Flow 20 ☒ Jars 250 T-Started 2137
 (C) First Final Flow 23 ☒ Safety Joint 75 T-Open 2359
 (D) Initial Shut-In 89 ☐ Circ Sub — T-Pulled 0237
 (E) Second Initial Flow 20 ☐ Hourly Standby — T-Out 0523
 (F) Second Final Flow 30 ☒ Mileage 104 130 Comments —
 (G) Final Shut-In 107 ☐ Sampler —
 (H) Final Hydrostatic 2402 ☐ Straddle —
☐ Ruined Shale Packer —
☐ Ruined Packer —
☐ Extra Copies —

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

☐ Extra Packer —
☐ Extra Recorder —
☐ Day Standby —
☐ Accessibility —
 Sub Total 1680

Sub Total —
 Total 1680⁰⁰
 MP/DST Disc't —

Approved By BOB STOLZE

Our Representative —

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