



DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co Inc**

PO Box 124
Kiowa KS 67070

ATTN: Ron Molz/ Dave Barke

Blick # 2

4-33s-10w Barber,KS

Start Date: 2012.05.11 @ 07:45:00

End Date: 2012.05.11 @ 19:16:00

Job Ticket #: 47741 DST #: 1

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

Printed: 2012.05.16 @ 14:00:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co Inc

4-33s-10w Barber,KS

PO Box 124
Kiowa KS 67070

Blick # 2

Job Ticket: 47741

DST#: 1

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.11 @ 07:45:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:00:45

Time Test Ended: 19:16:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Staats

Unit No: 47

Interval: 4798.00 ft (KB) To 4836.00 ft (KB) (TVD)

Reference Elevations: 1502.00 ft (KB)

Total Depth: 4836.00 ft (KB) (TVD)

1494.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6755 Inside

Press @ Run Depth: 55.53 psig @ 4799.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.11 End Date: 2012.05.11

Last Calib.: 2012.05.11

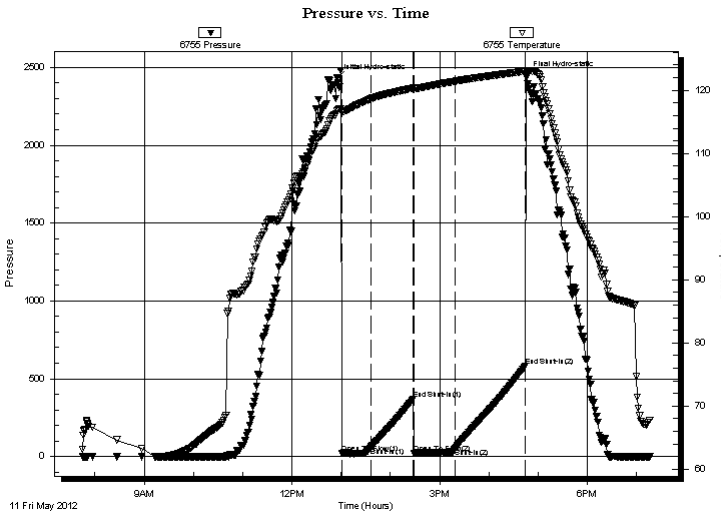
Start Time: 07:45:05 End Time: 19:16:00

Time On Btm: 2012.05.11 @ 12:54:45

Time Off Btm: 2012.05.11 @ 16:45:30

TEST COMMENT: IF: Weak blow 3 1/4"
IS: No blow back
FF: Strong blow BOB 1 min
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2430.38	116.74	Initial Hydro-static
6	21.82	116.51	Open To Flow (1)
42	60.16	118.63	Shut-In(1)
93	369.00	120.34	End Shut-In(1)
95	21.16	120.20	Open To Flow (2)
145	55.53	121.43	Shut-In(2)
230	580.37	123.01	End Shut-In(2)
231	2445.42	123.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	496' GIP	0.00
40.00	G,M 5%gas 95% mud	0.20

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co Inc

4-33s-10w Barber,KS

PO Box 124
Kiowa KS 67070

Blick # 2

Job Ticket: 47741

DST#: 1

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.11 @ 07:45:00

Tool Information

Drill Pipe:	Length: 4675.00 ft	Diameter: 3.80 inches	Volume: 65.58 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 66.19 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4798.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	67.00 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			4770.00	
Shut In Tool	5.00			4775.00	
Hydraulic tool	5.00			4780.00	
Jars	5.00			4785.00	
Safety Joint	3.00			4788.00	
Packer	5.00			4793.00	29.00 Bottom Of Top Packer
Packer	5.00			4798.00	
Stubb	1.00			4799.00	
Recorder	0.00	6773	Outside	4799.00	
Recorder	0.00	6755	Inside	4799.00	
Perforations	3.00			4802.00	
Change Over Sub	0.50			4802.50	
Drill Pipe	30.00			4832.50	
Change Over Sub	0.50			4833.00	
Bullnose	3.00			4836.00	38.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co Inc

4-33s-10w Barber,KS

PO Box 124
Kiowa KS 67070

Blick # 2

Job Ticket: 47741

DST#: 1

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.11 @ 07:45:00

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	496' GIP	0.000
40.00	G,M 5%gas 95% mud	0.197

Total Length: 40.00 ft Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

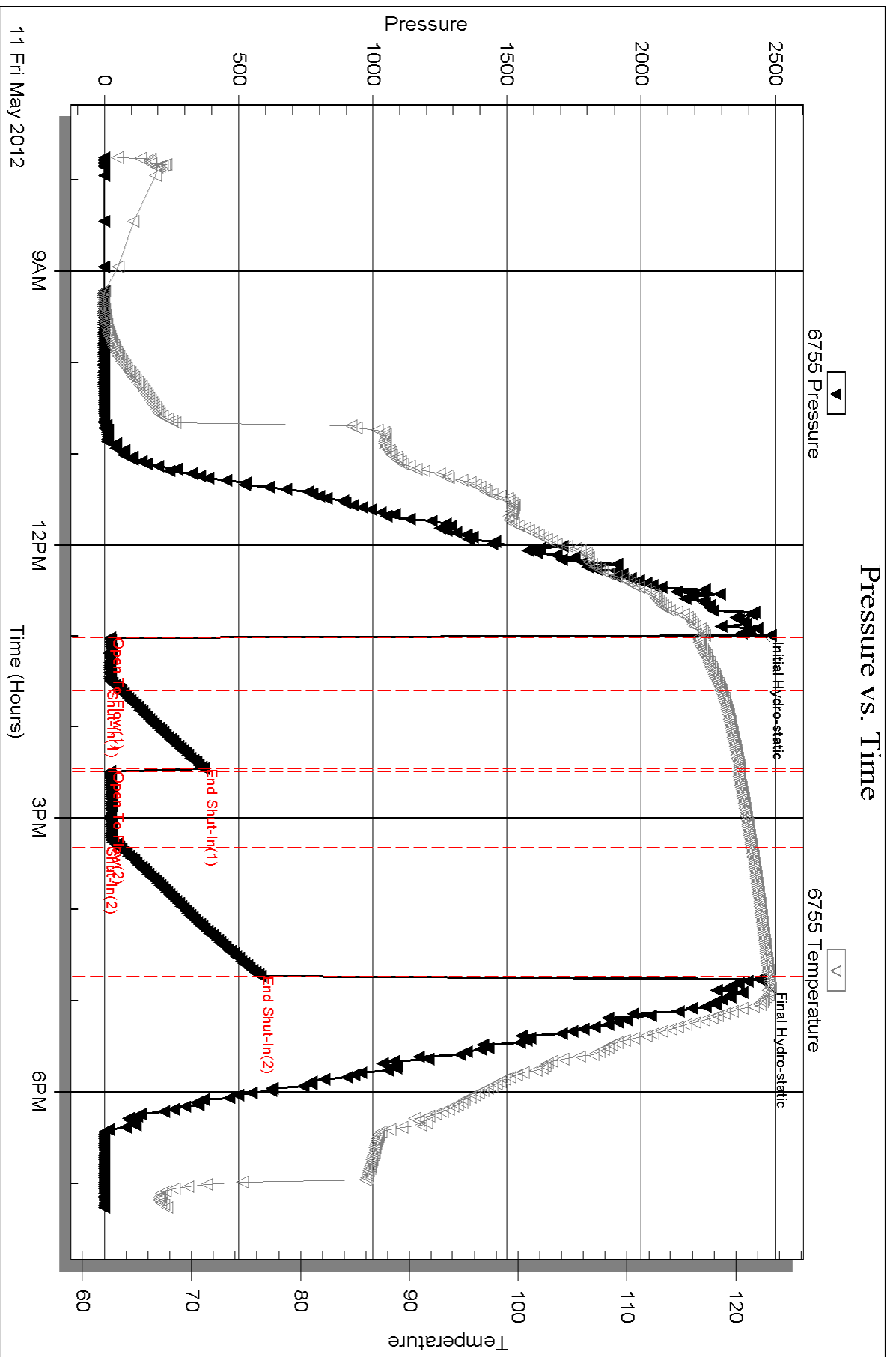
Serial #: 6755

Inside

Chieftain Oil Co Inc

Block # 2

DST Test Number: 1

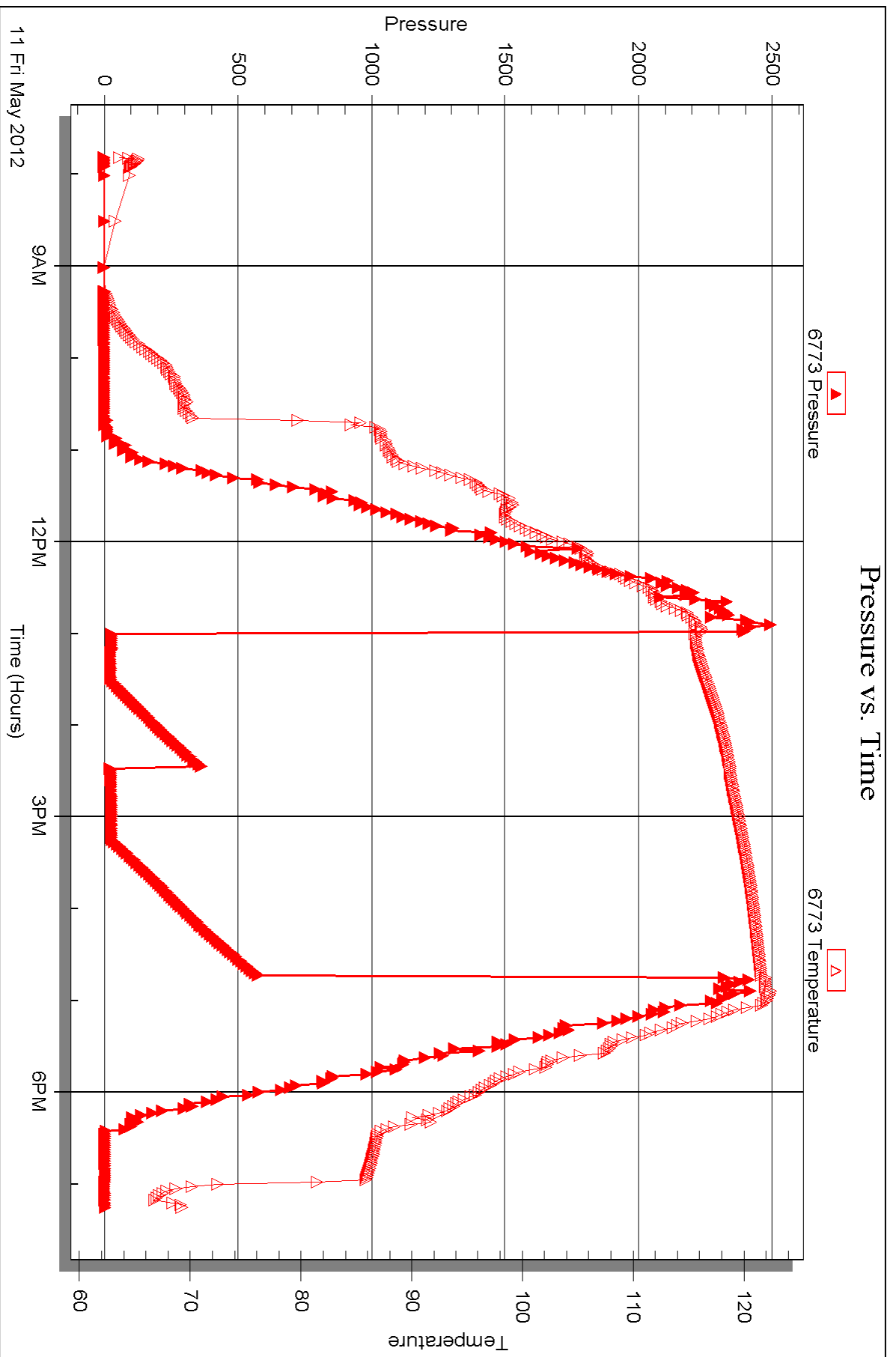


Serial #: 6773

Outside Chieftain Oil Co Inc

Blck # 2

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co Inc**

PO Box 124
Kiowa KS 67070

ATTN: Ron Molz/ Dave Barke

Blick # 2

4-33s-10w Barber,KS

Start Date: 2012.05.12 @ 17:36:00

End Date: 2012.05.13 @ 02:53:00

Job Ticket #: 47742 DST #: 2

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

Printed: 2012.05.16 @ 13:59:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Chieftain Oil Co Inc

4-33s-10w Barber, KS

PO Box 124
Kiowa KS 67070

Blick # 2

Job Ticket: 47742

DST#: 2

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.12 @ 17:36:00

GENERAL INFORMATION:

Formation: **Simpson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:50:00

Time Test Ended: 02:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chris Staats

Unit No: 47

Interval: 4883.00 ft (KB) To 4903.00 ft (KB) (TVD)

Reference Elevations: 1502.00 ft (KB)

Total Depth: 4903.00 ft (KB) (TVD)

1494.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6755 Inside

Press @ Run Depth: 56.43 psig @ 4884.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.05.12

End Date:

2012.05.13

Last Calib.: 2012.05.13

Start Time: 17:36:05

End Time:

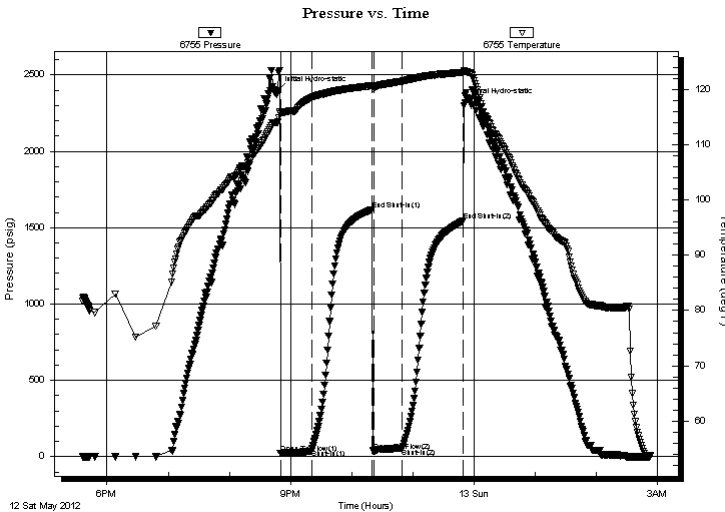
02:53:00

Time On Btm: 2012.05.12 @ 20:47:15

Time Off Btm: 2012.05.12 @ 23:51:00

TEST COMMENT: IF: Strong blow BOB 18 min
IS: No blow back
FF: Strong blow BOB 1 min
FS: No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2396.98	114.08	Initial Hydro-static
3	23.15	115.67	Open To Flow (1)
34	50.82	118.53	Shut-In(1)
93	1617.79	120.68	End Shut-In(1)
95	33.83	120.24	Open To Flow (2)
123	56.43	121.51	Shut-In(2)
182	1542.85	123.10	End Shut-In(2)
184	2320.52	123.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	930' GIP	0.00
50.00	M,W,O,G 5% gas 5% oil 40% mud 50%	w0.25
62.00	G,O,M,W 5% gas 5% oil 20% mud 70%	w0.30

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co Inc

4-33s-10w Barber,KS

PO Box 124
Kiowa KS 67070

Blick # 2

Job Ticket: 47742

DST#: 2

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.12 @ 17:36:00

Tool Information

Drill Pipe:	Length: 4736.00 ft	Diameter: 3.80 inches	Volume: 66.43 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: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 67.04 bbl</u>	Tool Chased	2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4883.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	49.00 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			4855.00	
Shut In Tool	5.00			4860.00	
Hydraulic tool	5.00			4865.00	
Jars	5.00			4870.00	
Safety Joint	3.00			4873.00	
Packer	5.00			4878.00	29.00 Bottom Of Top Packer
Packer	5.00			4883.00	
Stubb	1.00			4884.00	
Recorder	0.00	6773	Outside	4884.00	
Recorder	0.00	6755	Inside	4884.00	
Perforations	16.00			4900.00	
Bullnose	3.00			4903.00	20.00 Bottom Packers & Anchor

Total Tool Length: 49.00



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FLUID SUMMARY

Chieftain Oil Co Inc

4-33s-10w Barber,KS

PO Box 124
Kiowa KS 67070

Blick # 2

Job Ticket: 47742

DST#: 2

ATTN: Ron Molz/ Dave Barke

Test Start: 2012.05.12 @ 17:36:00

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: 78.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	930' GIP	0.000
50.00	M,W,O,G 5% gas 5% oil 40% mud 50% water	0.246
62.00	G,O,M,W 5% gas 5% oil 20% mud 70% water	0.305

Total Length: 112.00 ft Total Volume: 0.551 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

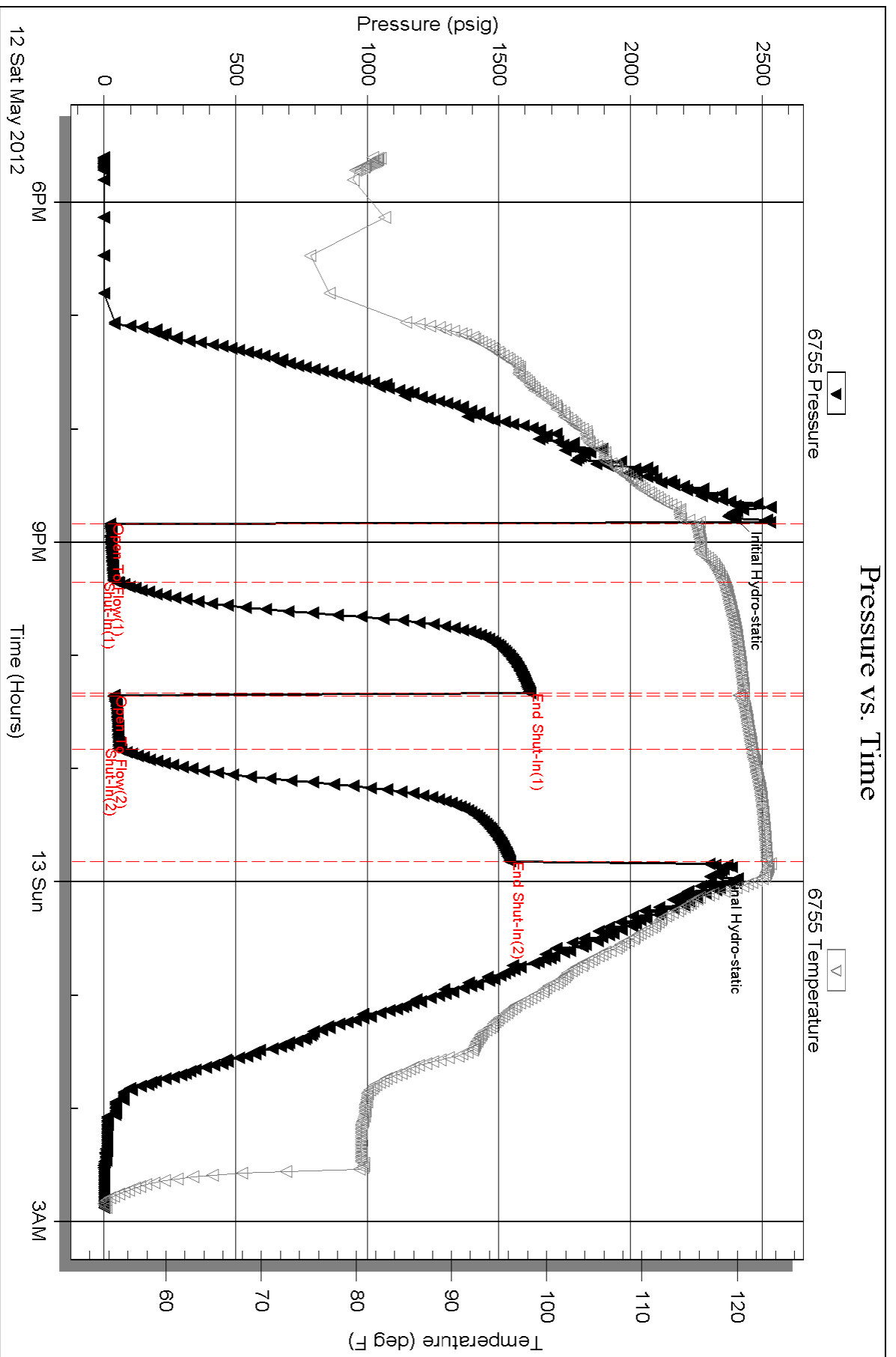
Serial #: 6755

Inside

Chieftain Oil Co Inc

Block # 2

DST Test Number: 2

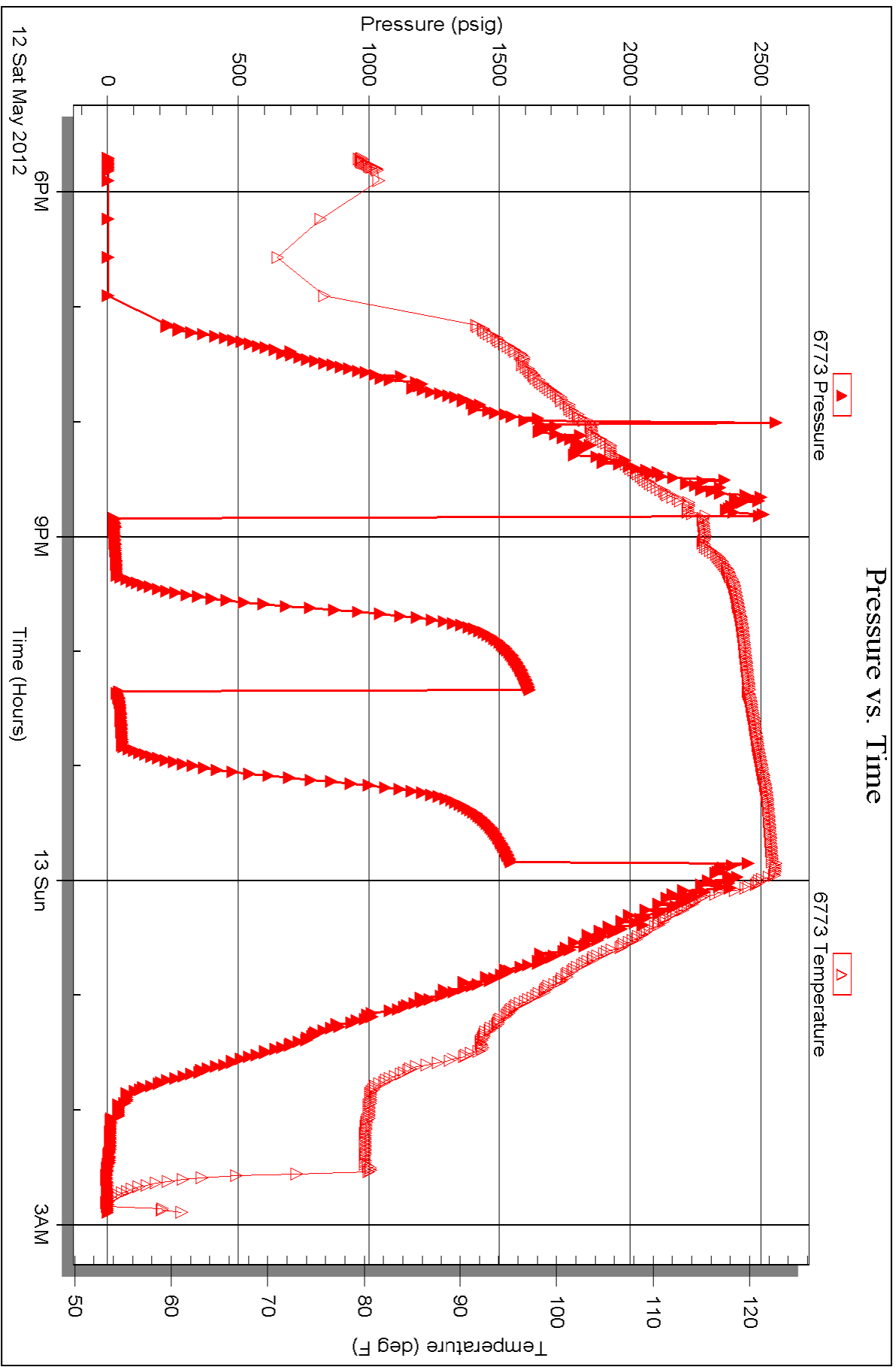


Serial #: 6773

Outside Chieftain Oil Co Inc

Blck # 2

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47741

Well Name & No. Blick #2 Test No. 1 Date 5-11-12
 Company Chieftain Oil CO INC Elevation 1502 KB 1494 GL
 Address 105 S 5th ST PO Box 124 Kiowa KS 67070
 Co. Rep / Geo. Ron Molz / Dave Barker Rig Fossil Rig # 2
 Location: Sec. 4 Twp. 33s Rge. 10w Co. Barber State KS

Interval Tested 4798 - 4836 Zone Tested Viola
 Anchor Length 38' Drill Pipe Run 4675 Mud Wt. 9.0
 Top Packer Depth 4793 Drill Collars Run 124 Vis 63
 Bottom Packer Depth ~~4793~~ 4798 Wt. Pipe Run 0 WL 7.8
 Total Depth 4836 Chlorides 4500 ppm System LCM 2#
 Blow Description IF: weak blow 3 1/4"
ISI: NO blow back
FF: STRONG blow BOB 1 min
FSL: NO blow back

Rec	Feet of	%gas	%oil	%water	%mud
	<u>446' GIP</u>				
<u>40'</u>	<u>G.M</u>	<u>5</u>			<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>40'</u>	BHT <u>120</u>	Gravity <u>—</u>	API RW <u>—</u>	@ <u>—</u> °F	Chlorides <u>4500</u> ppm

(A) Initial Hydrostatic 2430 Test 1250 T-On Location 7:30
 (B) First Initial Flow 21 Jars 250 T-Started 7:45
 (C) First Final Flow 60 Safety Joint 75 T-Open 13:00
 (D) Initial Shut-In 369 Circ Sub T-Pulled 16:45
 (E) Second Initial Flow 21 Hourly Standby 1 2/3hrs 166 T-Out 19:10
 (F) Second Final Flow 55 Mileage 100 miles 155
 (G) Final Shut-In 580 Sampler
 (H) Final Hydrostatic 2445 Straddle Ruined Shale Packer
 Shale Packer Ruined Packer
 Extra Packer Extra Copies
 Initial Open 30 Extra Recorder Sub Total 0
 Initial Shut-In ~~30~~ 60 Day Standby Total 1896
 Final Flow 45 Accessibility MP/DST Disc't
 Final Shut-In 90 Sub Total 1896

Approved By [Signature] Our Representative Ch. [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

Test Ticket

NO. 47742

Well Name & No. Blick #2 Test No. 2 Date 5-12-12
 Company Chieftain Oil Co INC Elevation 1502 KB 1494 GL
 Address 105 S 5th ST PO Box 124 Kiowa KS 67070
 Co. Rep / Geo. Ron Molz / Dave Barker Rig Fossil Rig #2
 Location: Sec. 4 Twp. 33 S Rge. 10 W Co. Barber State KS

Interval Tested 4883 - 4903 Zone Tested Simpson
 Anchor Length 20' Drill Pipe Run 4736 Mud Wt. 9.1
 Top Packer Depth 4878 Drill Collars Run 124 Vis 78
 Bottom Packer Depth 4883 Wt. Pipe Run 0 WL 9.4
 Total Depth 4903 Chlorides 5800 ppm System LCM 6#
 Blow Description IF: STRONG blow BOB 18 min
ISI: NO blow back
FF: STRONG blow BOB 1 min
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
	<u>930' GIP</u>	<u>100</u>			
<u>50'</u>	<u>M, O, W, G</u>	<u>5</u>	<u>5</u>	<u>50</u>	<u>40</u>
<u>62'</u>	<u>G, O, M, W</u>	<u>5</u>	<u>5</u>	<u>70</u>	<u>20</u>

Rec Total 112' BHT 120 Gravity NC API RW .17 @ 62° F Chlorides 50,000 ppm
 (A) Initial Hydrostatic 2396 Test 1250 T-On Location 17:15
 (B) First Initial Flow 23 Jars 250 T-Started 17:26
 (C) First Final Flow 50 Safety Joint 75 T-Open 20:50
 (D) Initial Shut-In 1617 Circ Sub _____ T-Pulled 23:50
 (E) Second Initial Flow 33 Hourly Standby _____ T-Out 2:45
 (F) Second Final Flow 56 Mileage 100 miles 155 Comments _____
 (G) Final Shut-In 1542 Sampler _____
 (H) Final Hydrostatic 2320 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 60 Day Standby _____ Total 1730
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1730

Approved By [Signature] 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.