



DRILL STEM TEST REPORT

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

625 S.10th
Kiowa KS 67070

ATTN: Arden Ratzlaff

3-34s-11w Barber Ks.

Diel #1

Start Date: 2005.07.24 @ 18:07:49

End Date: 2005.07.25 @ 02:53:04

Job Ticket #: 21723 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

625 S.10th
Kiowa KS 67070

ATTN: Arden Ratzlaff

Diel #1

3-34s-11w Barber Ks.

Job Ticket: 21723

DST#: 1

Test Start: 2005.07.24 @ 18:07:49

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:11:34

Time Test Ended: 02:53:04

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4516.00 ft (KB) To 4550.00 ft (KB) (TVD)**

Total Depth: 4550.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1355.00 ft (KB)

1345.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6755

Inside

Press@RunDepth: 92.69 psig @ 4517.00 ft (KB)

Start Date: 2005.07.24

End Date: 2005.07.25

Start Time: 18:07:54

End Time: 02:53:04

Capacity: 7000.00 psig

Last Calib.: 2005.07.25

Time On Btm: 2005.07.24 @ 21:08:19

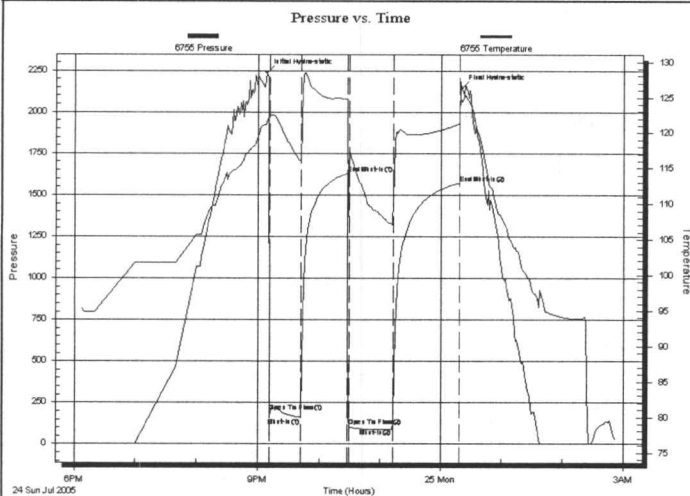
Time Off Btm: 2005.07.25 @ 00:20:19

TEST COMMENT: IF: Strong blow . GTS in 4 1/2 mins. (see gas flow report)

IS: No blow .

FF: Strong blow . (see gas flow report)

FS: No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2236.96	121.58	Initial Hydro-static
4	194.93	122.37	Open To Flow (1)
34	162.16	115.92	Shut-In(1)
79	1628.96	124.85	End Shut-In(1)
81	107.97	117.04	Open To Flow (2)
124	92.69	107.10	Shut-In(2)
190	1571.79	121.35	End Shut-In(2)
192	2142.92	124.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	GOCM 15%g 38%o 47%m	2.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	14.00	191.58
Last Gas Rate	0.50	19.00	225.31
Max. Gas Rate	0.50	29.00	292.76



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc

625 S. 10th
Kiowa KS 67070

ATTN: Arden Ratzlaff

Diel #1

3-34s-11w Barber Ks.

Job Ticket: 21723

DST#: 1

Test Start: 2005.07.24 @ 18:07:49

Tool Information

Drill Pipe:	Length: 4507.00 ft	Diameter: 3.80 inches	Volume: 63.22 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: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 84000.00 lb
			<u>Total Volume: 63.22 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4516.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	56.00 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			4495.00	
Shut In Tool	5.00			4500.00	
Hydraulic tool	5.00			4505.00	
Safety Joint	2.00			4507.00	
Packer	4.00			4511.00	22.00 Bottom Of Top Packer
Packer	5.00			4516.00	
Stubb	1.00			4517.00	
Recorder	0.00	6755	Inside	4517.00	
Perforations	28.00			4545.00	
Recorder	0.00	13222	Outside	4545.00	
Bullnose	5.00			4550.00	34.00 Bottom Packers & Anchor

Total Tool Length: 56.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc

Diel #1

625 S.10th
Kiowa KS 67070

3-34s-11w Barber Ks.

Job Ticket: 21723

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.07.24 @ 18:07:49

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 12.78 in³

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 ft	Description	Volume bbl
150.00	GOCM 15%g 38%o 47%m	2.104

Total Length: 150.00 ft

Total Volume: 2.104 bbl

Num Fluid Samples: 0

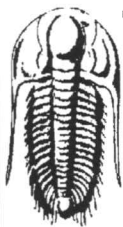
Num Gas Bombs: 1

Serial #: gp-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Chieftain Oil Co. Inc

Diel #1

625 S.10th
Kiowa KS 67070

3-34s-11w Barber Ks.

Job Ticket: 21723

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2005.07.24 @ 18:07:49

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	10	0.50	14.00	191.58
1	20	0.50	17.00	211.82
1	30	0.50	17.00	211.82
2	10	0.50	29.00	292.76
2	20	0.50	24.00	259.04
2	30	0.50	20.00	232.05
2	45	0.50	19.00	225.31

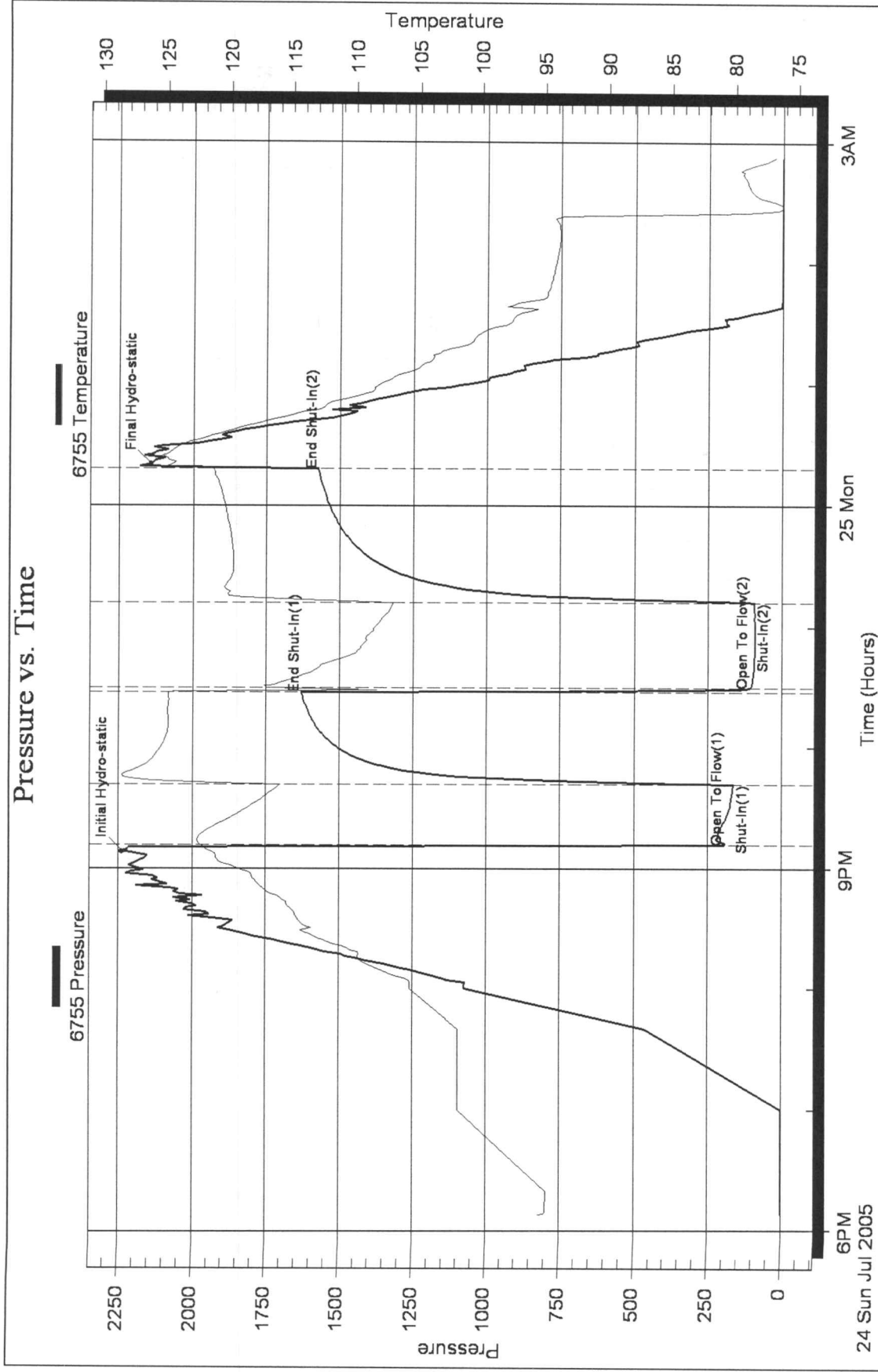
Serial #: 6755

Inside

Chieftain Oil Co. Inc

3-34s-11w Barber Ks.

DST Test Number: 1





DRILL STEM TEST REPORT

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

625 S. 10th
Kiowa KS 67070

ATTN: Arden Ratzlaff

3-34s-11w Barber Ks.

Diel #1

Start Date: 2005.07.26 @ 00:51:10

End Date: 2005.07.26 @ 07:11:55

Job Ticket #: 21724 DST #: 2

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

625 S.10th
Kiowa KS 67070

ATTN: Arden Ratzlaff

Diel #1

3-34s-11w Barber Ks.

Job Ticket: 21724

DST#: 2

Test Start: 2005.07.26 @ 00:51:10

GENERAL INFORMATION:

Formation: **Misener**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:12:25

Time Test Ended: 07:11:55

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 23

Interval: **4826.00 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: 1355.00 ft (KB)

1345.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6755

Inside

Press@RunDepth: 15.40 psig @ 4827.00 ft (KB)

Start Date: 2005.07.26

End Date: 2005.07.26

Start Time: 00:51:15

End Time: 07:11:54

Capacity: 7000.00 psig

Last Calib.: 2005.07.26

Time On Btm: 2005.07.26 @ 03:11:25

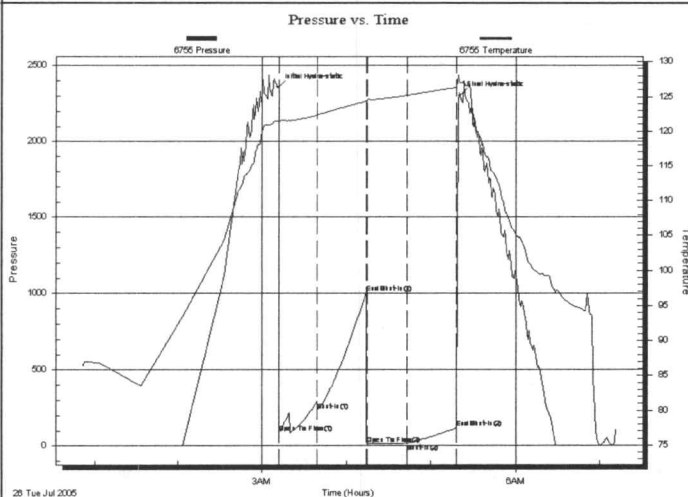
Time Off Btm: 2005.07.26 @ 05:20:25

TEST COMMENT: IF:Weak blow . 1/4 - 3/4".

IS:No blow .

FF:Weak blow . 1 1/2 - 3".

FS:No blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2359.01	121.42	Initial Hydro-static
1	85.90	121.19	Open To Flow (1)
28	230.73	122.36	Shut-In(1)
63	1003.86	124.33	End Shut-In(1)
64	11.73	124.51	Open To Flow (2)
92	15.40	125.18	Shut-In(2)
127	117.85	126.33	End Shut-In(2)
129	2305.23	127.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Drig.mud	0.21
0.00	95 ft.of GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc

Diel #1

625 S.10th
Kiowa KS 67070

3-34s-11w Barber Ks.

Job Ticket: 21724

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2005.07.26 @ 00:51:10

Tool Information

Drill Pipe:	Length:	4822.00 ft	Diameter:	3.80 inches	Volume:	67.64 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:	20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	80000.00 lb
					Total Volume:	67.64 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		18.00 ft					String Weight: Initial	65000.00 lb
Depth to Top Packer:		4826.00 ft					Final	65000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		34.00 ft						
Tool Length:		56.00 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			4805.00	
Shut In Tool	5.00			4810.00	
Hydraulic tool	5.00			4815.00	
Safety Joint	2.00			4817.00	
Packer	4.00			4821.00	22.00 Bottom Of Top Packer
Packer	5.00			4826.00	
Stubb	1.00			4827.00	
Recorder	0.00	6755	Inside	4827.00	
Perforations	28.00			4855.00	
Recorder	0.00	13222	Outside	4855.00	
Bullnose	5.00			4860.00	34.00 Bottom Packers & Anchor

Total Tool Length: 56.00



TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc

Diel #1

625 S.10th
Kiowa KS 67070

3-34s-11w Barber Ks.

Job Ticket: 21724

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2005.07.26 @ 00:51:10

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:

10000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 14.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilg.mud	0.210
0.00	95 ft.of GIP	0.000

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

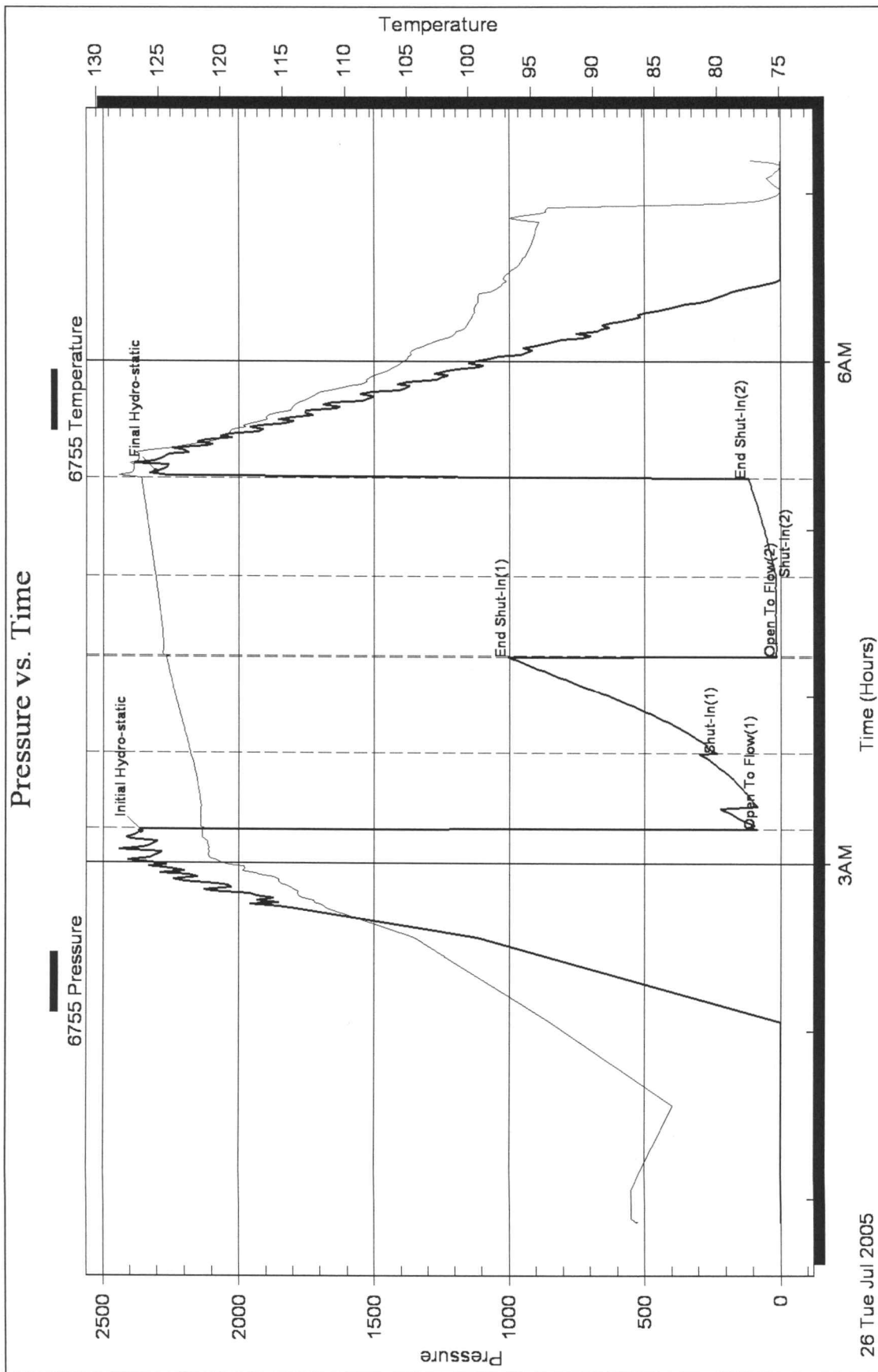
Serial #: none

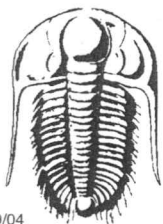
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9/04

INV
7730

No 21723

Test Ticket

Well Name & No.	W2EL #1	Test No.	1	Date	7-24-05
Company	Chiefton Oil Co. Inc.	Zone Tested	Miss.		
Address	625 S. 10TH, Kiowa, KS. 67070	Elevation	1355	KB	1345 GL
Co. Rep / Geo.	Arden Ratylabff	Cont.	Val Energy #3	Est. Ft. of Pay	Por. %
Location: Sec.	3	Twp.	34S	Rge.	11W Co. Barber State KS.
No. of Copies	5	Disbtribution Sheet (Y, N)	N	Turnkey (Y, N)	Evaluation (Y, N)

Interval Tested	4516 - 4550'	Initial Str Wt./Lbs.	43,000	Unseated Str Wt./Lbs.	44,000
Anchor Length	34'	Wt. Set Lbs.	20,000	Wt. Pulled Loose/Lbs.	84,000
Top Packer Depth	4511'	Tool Weight	2100#		
Bottom Packer Depth	4516'	Hole Size 7 7/8"	✓	Rubber Size 6 3/4"	✓
Total Depth	4550'	Wt. Pipe Run	None	Drill Collar Run	None
Mud Wt.	9.3 LCM ~	Vis.	4S	WL	12.8cc
Blow Description	FF: Strong blow. GTS in 4 1/2 mins. (see gas flow report) FSI: No blow.	Drill Pipe Size	4 1/2"	Ft. Run	4507'
	FF: Strong blow. (see gas flow report) FSI: No blow.				

Recovery - Total Feet	150	GIP	yes	Ft. in DC		Ft. in DP	
Rec.	150	Feet of	GOCM	15 %gas	38 %oil	%water	47 %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	121	°F Gravity	N/A	°API D @		°F Corrected Gravity	N/A
RW	N.C.	@		°F	Chlorides	5,000 ppm Recovery	Chlorides 5,000 ppm System

AK-1	Alpine		
(A) Initial Hydrostatic Mud	2237 PSI	Recorder No.	6755
(B) First Initial Flow Pressure	195 PSI	(depth)	4517'
(C) First Final Flow Pressure	162 PSI	Recorder No.	13222
(D) Initial Shut-In Pressure	1629 PSI	(depth)	4545'
(E) Second Initial Flow Pressure	108 PSI	Recorder No.	
(F) Second Final Flow Pressure	93 PSI	(depth)	
(G) Final Shut-In Pressure	1572 PSI	Initial Opening	30
(Q) Final Hydrostatic Mud	2143 PSI	Initial Shut-In	45

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.

Approved By _____
Our Representative Gary Purchase

Final Flow	45	Jars	
Final Shut-In	60	Safety Jt.	✓ 50
T-On Location	1715	Circ Sub	
T-Started	1807	Sampler	
T-Open	2111	Straddle	
T-Pulled	0014	Ext. Packer	
T-Out	0253	Shale Packer	
		Ruined Packer	
		Mileage	✓ 92
		Sub Total:	1192.00
		Std. By	✓ 15
		Other	✓ 150
		Total:	1357.00

TESTER HAS NO ACCESS TO
R216 FLOOR FROM CATWALK



GAS VOLUME REPORT

Diul #1

OPERATOR

WELL NAME AND NO.

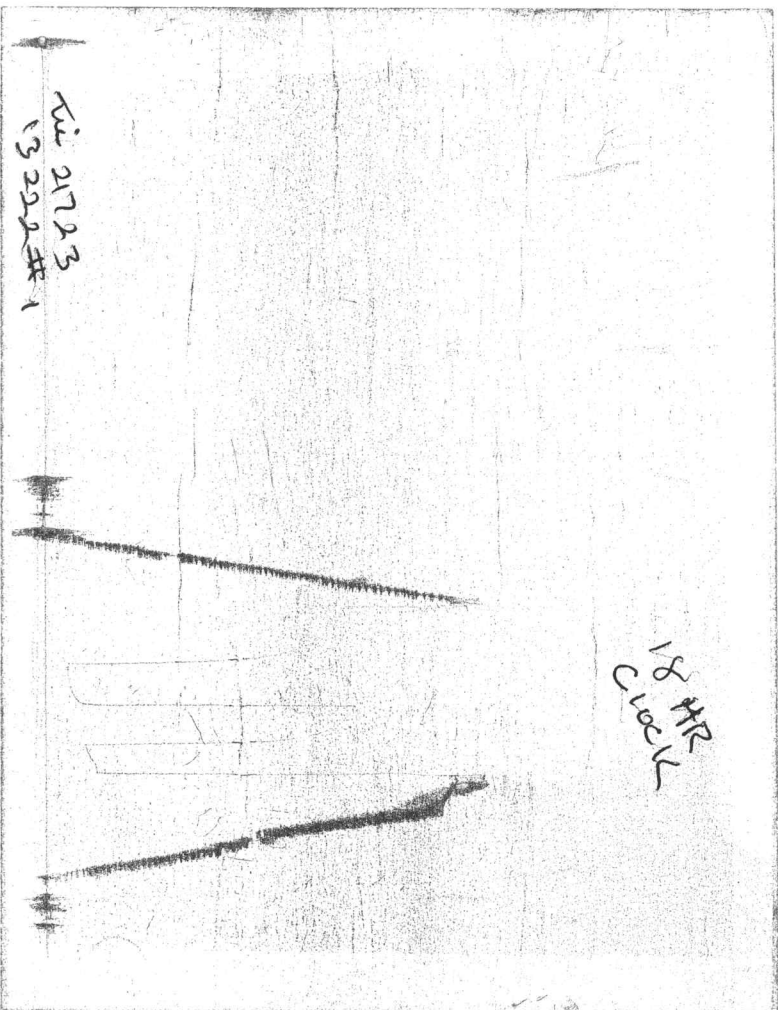
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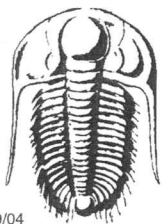
Initial Open

Final Open

Remarks:

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





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21724

9/04

Test Ticket

Well Name & No. <u>Diesel #1</u>	Test No. <u>2</u>	Date <u>7-26-05</u>
Company <u>Chieftain Oil Co. Inc.</u>	Zone Tested <u>Misner</u>	
Address <u>625 S 10TH, Kiowa Ks. 67070</u>	Elevation <u>1355 KB 1345</u>	GL
Co. Rep / Geo. <u>Orden Ratyliff</u>	Cont. <u>Val Energy #3</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>3</u> Twp. <u>34S</u> Rge. <u>11W</u> Co. <u>Barber</u> State <u>Ks.</u>		
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u>N</u> Turnkey (Y, N) _____ Evaluation (Y, N) _____		

Interval Tested <u>4826 - 4860'</u>	Initial Str Wt./Lbs. <u>65,000</u>	Unseated Str Wt./Lbs. <u>65,000</u>
Anchor Length <u>34'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>89,000</u>
Top Packer Depth <u>4821'</u>	Tool Weight <u>2100#</u>	
Bottom Packer Depth <u>4826'</u>	Hole Size <u>7 7/8"</u> ✓	Rubber Size <u>6 3/4"</u> ✓
Total Depth <u>4860'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>None</u>
Mud Wt. <u>9.0</u> LCM <u>—</u> Vis. <u>60</u> WL <u>14.8cc</u>	Drill Pipe Size <u>4 1/2"</u>	Ft. Run <u>4822'</u>
Blow Description <u>IF: Weak below 1/4 - 3/4". FSI: No blow.</u>		
<u>FF: Weak below 1 1/2 - 3". FSI: No blow.</u>		

Recovery - Total Feet <u>15</u>	GIP <u>95</u>	Ft. in DC <u>0</u>	Ft. in DP <u>15</u>
Rec. <u>15</u> Feet of <u>Reg Mud</u>	%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 <u>126</u> °F Gravity <u>N/A</u> °API D @ _____ °F Corrected Gravity <u>N/A</u> °API			
RW <u>N.C.</u> @ _____ °F Chlorides <u>10,000</u> ppm Recovery _____ Chlorides <u>10,000</u> ppm System			

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>2359</u> PSI	<u>2359</u> PSI	<u>6255</u>	✓ <u>1050</u>
(B) First Initial Flow Pressure	<u>90</u> PSI	<u>90</u> PSI	<u>4827</u>	Jars _____
(C) First Final Flow Pressure	<u>231</u> PSI	<u>231</u> PSI	<u>13222</u>	Safety Jt. ✓ <u>50</u>
(D) Initial Shut-In Pressure	<u>1004</u> PSI	<u>1004</u> PSI	<u>4855</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>12</u> PSI	<u>12</u> PSI	—	Sampler _____
(F) Second Final Flow Pressure	<u>15</u> PSI	<u>15</u> PSI	—	Straddle _____
(G) Final Shut-In Pressure	<u>118</u> PSI	<u>118</u> PSI	<u>Initial Opening</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>4305</u> PSI	<u>4305</u> PSI	<u>Initial Shut-In</u>	Shale Packer _____

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Approved By Orden Ratyliff
Our Representative Gary F. Fawcett

Final Flow	<u>30</u>	Ruined Packer	_____
Final Shut-In	<u>35</u>	Mileage	<u>✓ 92</u>
T-On Location	<u>0010</u>	Sub Total:	<u>1192.00</u>
T-Started	<u>0051</u>	Std. By	_____
T-Open	<u>0312</u>	Other	<u>✓ 150</u>
T-Pulled	<u>0517</u>	Total:	<u>1342.00</u>
T-Out	<u>0711</u>	<u>Accessories & Charges</u> <u>FOR TESTER - NO ACCESS</u> <u>2005-11-02</u>	

CHART PAGE

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

