

15-007-23088

23-33s-11w



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil CO Inc**

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

23 33S 11W Barber KS

Chad #1

Start Date: 2006.12.21 @ 14:45:00

End Date: 2006.12.22 @ 00:20:30

Job Ticket #: 25830 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2006.12.28 @ 12:13:02 Page 1

Chieftain Oil CO Inc

Chad #1

23 33S 11W Barber KS

DST # 1

Lansing

2006.12.21



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Chieftain Oil CO Inc

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

Chad #1

23 33S 11W Barber KS

Job Ticket: 25830

DST#: 1

Test Start: 2006.12.21 @ 14:45:00

GENERAL INFORMATION:

Formation: **Lansing**

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

Time Tool Opened: 17:14:00

Time Test Ended: 00:20:30

Test Type: **Conventional Bottom Hole**

Tester: **Gerald Adams**

Unit No: **36**

Interval: **4201.00 ft (KB) To 4224.00 ft (KB) (TVD)**

Total Depth: **4224.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1493.00 ft (KB)**

1486.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: **6798**

Inside

Press@RunDepth: **296.03 psig @ 4202.00 ft (KB)**

Start Date: **2006.12.21**

End Date:

2006.12.22

Start Time: **14:45:05**

End Time:

00:20:30

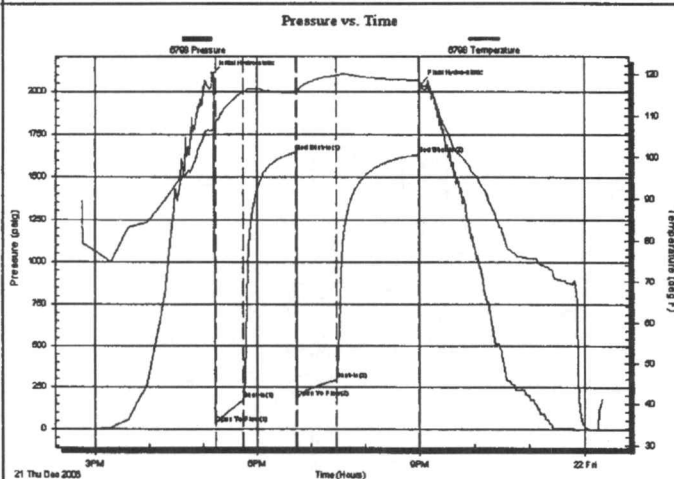
Capacity: **7000.00 psig**

Last Calib.: **2006.12.22**

Time On Btm: **2006.12.21 @ 17:11:00**

Time Off Btm: **2006.12.21 @ 21:01:30**

TEST COMMENT: IF Fair blow BOB in 6 mins.
ISI Weak blow Built to 5 " decreased to 3 1/2 "
FF Fair blow BOB in 12 mins.
FSI Weak blow Built to 6 "



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2107.04	106.48	Initial Hydro-static
3	33.24	107.34	Open To Flow (1)
34	173.32	115.66	Shut-In(1)
93	1645.57	115.56	End Shut-In(1)
94	189.61	115.29	Open To Flow (2)
138	296.03	119.69	Shut-In(2)
228	1635.08	118.47	End Shut-In(2)
231	2048.82	117.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
509.00	MCW 70%w 30%o	2.85
62.00	SGO&MCW 2%g 2%o 76%w 20%o	0.87
69.00	GO&WCM 10%G 30%O 30%W 30%M	0.97
0.00	210' GIP	0.00
0.00	RW= .082 @ 43.5 deg. 170000 ppm	0.00
0.00		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

Chad #1

PO Box 124
Klowa KS 67070

23 33S 11W Barber KS

Job Ticket: 25830

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2006.12.21 @ 14:45:00

Tool Information

Drill Pipe:	Length: 3722.00 ft	Diameter: 3.80 inches	Volume: 52.21 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: 471.00 ft	Diameter: 2.25 inches	Volume: 2.32 bbl	Weight to Pull Loose: 115000.0 lb
		Total Volume: 54.53 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 92000.00 lb
Depth to Top Packer:	4201.00 ft			Final 96000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4183.00	
Hydraulic tool	5.00			4188.00	
Safety Joint	3.00			4191.00	
Packer	5.00			4196.00	23.00 Bottom Of Top Packer
Packer	5.00			4201.00	
Stubb	1.00			4202.00	
Recorder	0.00	6798	Inside	4202.00	
Perforations	19.00			4221.00	
Recorder	0.00	13249	Outside	4221.00	
Bullnose	3.00			4224.00	23.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil CO Inc

Chad #1

PO Box 124
Kiowa KS 67070

23 33S 11W Barber KS

Job Ticket: 25830

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2006.12.21 @ 14:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 7.20 in³

Resistivity: 0.00 ohm.m

Salinity: 5000.00 ppm

Filter Cake: 0.02 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
509.00	MCW 70%w 30%m	2.849
62.00	SGO&MCW 2%g 2%o 76%w 20%m	0.870
69.00	GO&WCM 10%G 30%O 30%W 30%M	0.968
0.00	210' GIP	0.000
0.00	RW= .082 @ 43.5 deg. 170000 ppm	0.000
0.00		0.000

Total Length: 640.00 ft

Total Volume: 4.687 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6798

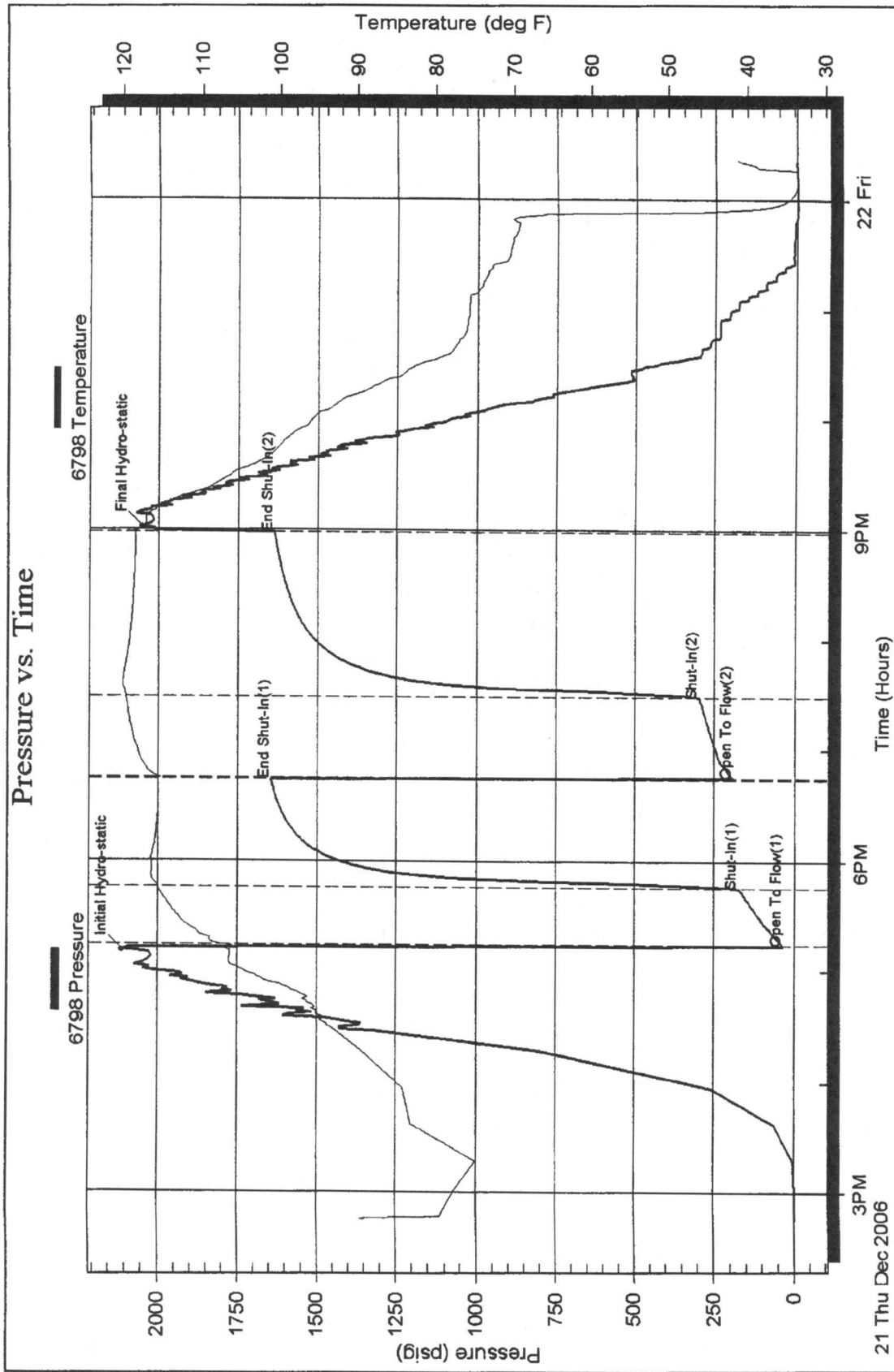
Inside

Chieflain Oil CO Inc

23 33S 11W Barber KS

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9686✓

25830

Test Ticket

Well Name & No. <u>Chad #1</u>	Test No. <u>1</u>	Date <u>12-21-06</u>
Company <u>Chieftain Oil Co., Inc.</u>	Zone Tested <u>Lansing</u>	
Address <u>P.O. Box 124 Kiowa, Kansas 67070</u>	Elevation <u>1493</u>	KB <u>1486</u> GL
Co. Rep / Geo. <u>Arden Ratzlaff</u>	Rig <u>D+B#1</u>	
Location: Sec. <u>23</u> Twp. <u>33S</u> Rge. <u>11W</u>	Co. <u>Barber</u>	State <u>Ks.</u>
Comment: _____		Release date / time: _____

Interval Tested <u>4201-4224</u>	Initial Str Wt./Lbs. <u>92,000</u>	Unseated Str Wt./Lbs. <u>96,000</u>
Anchor Length <u>23</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>115,000</u>
Top Packer Depth <u>4196</u>	Tool Weight <u>2,100</u>	
Bottom Packer Depth <u>4201</u>	Hole Size 7 7/8" <u>✓</u>	Rubber Size 6 3/4" <u>✓</u>
Total Depth <u>4224</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>471</u>
Mud Wt. <u>9.5</u> LCM <u>IR</u> Vis. <u>47</u> WL <u>7.2</u>	Drill Pipe Size <u>4 1/2" XH</u>	Ft. Run <u>3722</u>

Blow Description IF: Fair blow. B.O.B. in 6 mins.

IST: Weak blow. Built to 5", decreased to 3 1/2"

FF: Fair blow. B.O.B. in 12 mins.

FSI: Weak blow. Built to 6"

Recovery - Total Feet <u>640</u>	GIP <u>210'</u>	Ft. in DC <u>471</u>	Ft. in DP <u>169</u>
Rec. <u>69</u>	Feet of <u>GO+WCM</u>	10% gas	30% oil
Rec. <u>62</u>	Feet of <u>SGO+MCW</u>	2% gas	2% oil
Rec. <u>509</u>	Feet of <u>MCW</u>	% gas	% oil
Rec. _____	Feet of _____	% gas	% oil
Rec. _____	Feet of _____	% gas	% oil
BHT <u>118</u>	'F Gravity <u>N/C</u>	'API D @ _____	'F Corrected Gravity _____
RW <u>.082</u>	@ <u>43.5</u>	'F Chlorides <u>170,000</u> ppm	Recovery _____ Chlorides <u>5,000</u> ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2107</u> PSI	Alpine	Recorder No. <u>6798</u>	Test <u>✓</u> <u>1200</u>
(B) First Initial Flow Pressure	<u>33</u> PSI	(depth)	<u>4202</u>	Jars _____
(C) First Final Flow Pressure	<u>173</u> PSI	Recorder No.	<u>13249</u>	Safety Jt. <u>✓</u> <u>75</u>
(D) Initial Shut-In Pressure	<u>11646</u> PSI	(depth)	<u>4221</u>	Circ Sub _____
(E) Second Initial Flow Pressure	<u>190</u> PSI	Recorder No.	_____	Sampler _____
(F) Second Final Flow Pressure	<u>296</u> PSI	(depth)	_____	Straddle _____
(G) Final Shut-In Pressure	<u>11635</u> PSI	Initial Opening	<u>30</u>	Ext. Packer _____
(Q) Final Hydrostatic Mud	<u>2049</u> PSI	Initial Shut-In	<u>60</u>	Shale Packer _____

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 Arden Ratzlaff

Our Representative Gerald Adams

Thank You.

T-On Location 1345
T-Started 1445
T-Open 1714
T-Pulled 2100
T-Out 2420

Ruined Packer _____
Mileage ✓ 100 R.T. 125
Sub Total: 1400
Std. By _____
Acc. Chg: ✓ 150-
Other: _____
Total: _____

CHART PAGE

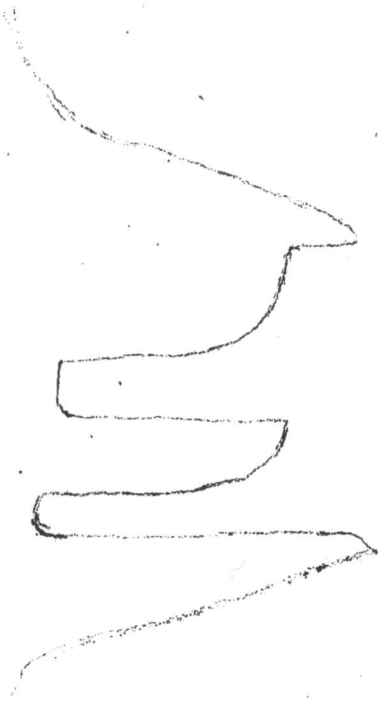
This is a photocopy of the actual AK-1 recorder chart.

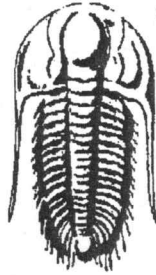
Chieftain Oil Co., Inc.

Chad #1

DST #1 Lansing

13249





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil CO**

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

23 33S 11W Barber KS

Chad # 1

Start Date: 2007.01.07 @ 17:20:05

End Date: 2007.01.08 @ 02:55:20

Job Ticket #: 77118 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

PO Box 124
Kiowa KS 67070

ATTN: Arden Ratzlaff

Chad # 1

23 33S 11W Barber KS

Job Ticket: 77118

DST#: 2

Test Start: 2007.01.07 @ 17:20:05

GENERAL INFORMATION:

Formation: **Misner**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:36:20

Time Test Ended: 02:55:20

Test Type: Conventional Bottom Hole

Tester: Leal Cason

Unit No: 19

Interval: **4897.00 ft (KB) To 4924.00 ft (KB) (TVD)**

Total Depth: 4924.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1493.00 ft (KB)

1486.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6752

Inside

Press@RunDepth: 17.39 psig @ 4898.00 ft (KB)

Start Date: 2007.01.07

End Date:

2007.01.08

Start Time: 17:20:10

End Time:

02:55:20

Capacity: 7000.00 psig

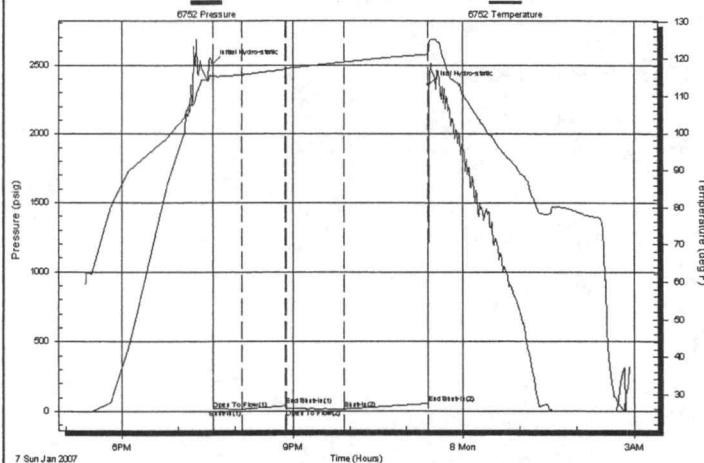
Last Calib.: 2007.01.08

Time On Btm: 2007.01.07 @ 19:35:35

Time Off Btm: 2007.01.07 @ 23:24:19

TEST COMMENT: IF Weak Blow 1 inch
ISI No Blow back
FF Weak Blow 1 inch
FSI No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2511.32	115.46	Initial Hydro-static
1	17.03	115.32	Open To Flow (1)
31	17.00	115.74	Shut-In(1)
77	39.96	117.19	End Shut-In(1)
78	16.90	117.28	Open To Flow (2)
139	17.39	119.14	Shut-In(2)
229	56.60	121.27	End Shut-In(2)
229	2356.97	122.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOSM -1%O +99%M	0.07

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

Chad # 1

PO Box 124
Kiowa KS 67070

23 33S 11W Barber KS

Job Ticket: 77118

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2007.01.07 @ 17:20:05

Tool Information

Drill Pipe:	Length: 4379.00 ft	Diameter: 3.80 inches	Volume: 61.43 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 3.25 inches	Volume: - bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 500.00 ft	Diameter: 2.25 inches	Volume: 2.46 bbl	Weight to Pull Loose:	100000.0 lb
		Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	98000.00 lb
Depth to Top Packer:	4897.00 ft			Final	98000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4875.00	
Shut In Tool	5.00			4880.00	
Hydraulic tool	5.00			4885.00	
Safety Joint	3.00			4888.00	
Packer	5.00			4893.00	23.00 Bottom Of Top Packer
Packer	4.00			4897.00	
Stubb	1.00			4898.00	
Recorder	0.00	6752	Inside	4898.00	
Perforations	23.00			4921.00	
Recorder	0.00	6704	Outside	4921.00	
Bullnose	3.00			4924.00	27.00 Bottom Packers & Anchor

Total Tool Length: 50.00



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FLUID SUMMARY

Chieftain Oil CO

Chad # 1

PO Box 124
Kiowa KS 67070

23 33S 11W Barber KS

Job Ticket: 77118

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2007.01.07 @ 17:20:05

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 80.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: 8000.00 ppm

Filter Cake: 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 ft	Description	Volume bbl
15.00	VSOSM -1%O +99%M	0.074

Total Length: 15.00 ft

Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

