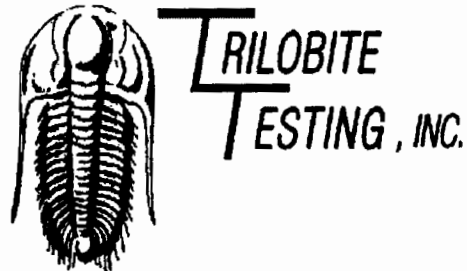


15-081-21516

36-27s-34w



DRILL STEM TEST REPORT

Prepared For: **Oxy USA**

P.O. Box 2528 Liberal KS 67905

ATTN: Tom Heflin

36/27s/34w

Branstetter B-5

Start Date: 2004.05.24 @ 03:29:15

End Date: 2004.05.24 @ 14:49:15

Job Ticket #: 19079 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

Oxy USA
P.O. Box 2528 Liberal KS 67905
ATTN: Tom Heflin

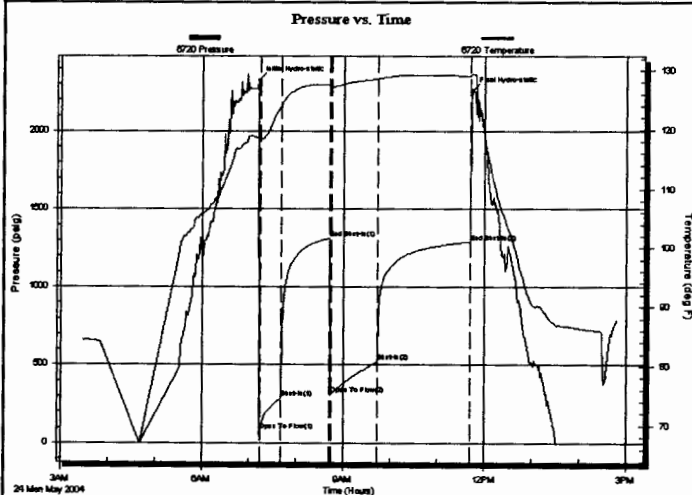
Branstetter B-5
36/27s/34w
Job Ticket: 19079 **DST#: 1**
Test Start: 2004.05.24 @ 03:29:15

GENERAL INFORMATION:

Formation: **Marmoton**
Deviated: **No** Whipstock: ft (KB)
Time Tool Opened: 07:15:00
Time Test Ended: 14:49:15
Interval: **4755.00 ft (KB) To 4776.00 ft (KB) (TVD)**
Total Depth: **4776.00 ft (KB) (TVD)**
Hole Diameter: **7.78 inches** Hole Condition: **Good**
Test Type: **Conventional Bottom Hole**
Tester: **Chris Hagman**
Unit No: **25**
Reference Elevations: **3035.00 ft (KB)**
3023.00 ft (CF)
KB to GR/CF: **12.00 ft**

Serial #: 6720 **Inside**
Press@RunDepth: **521.08 psig @ 4761.00 ft (KB)**
Start Date: **2004.05.24** End Date: **2004.05.24**
Start Time: **03:29:20** End Time: **14:49:15**
Capacity: **7000.00 psig**
Last Calib.: **1899.12.30**
Time On Btrm: **2004.05.24 @ 07:12:30**
Time Off Btrm: **2004.05.24 @ 11:45:00**

TEST COMMENT: **IF: BOB 6 min steady blow**
IS: No blow back
FF: BOB 8 min steady blow
FSI: No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2321.64	118.72	Initial Hydro-static
3	81.04	118.49	Open To Flow (1)
29	289.28	124.08	Shut-In(1)
90	1311.67	127.62	End Shut-In(1)
93	313.21	127.27	Open To Flow (2)
152	521.08	128.52	Shut-In(2)
270	1290.86	129.05	End Shut-In(2)
273	2256.62	129.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
922.00	5%G, 90%W, 5%M	12.83
120.00	5%G, 35%W, 60%M	2.36

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Oxy USA

Branstetter B-5

P.O. Box 2528 Liberal KS 67905

36/27s/34w

Job Ticket: 19079

DST#: 1

ATTN: Tom Heflin

Test Start: 2004.05.24 @ 03:29:15

Tool Information

Drill Pipe:	Length: 4391.00 ft	Diameter: 4.50 inches	Volume: 86.38 bbl	Tool Weight:	2000.00 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: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose:	90000.00 lb
		Total Volume:	88.15 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	4755.00 ft			Final	78000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	21.00 ft				
Tool Length:	51.00 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			4726.00	
Shut In Tool	5.00			4731.00	
Sampler	3.00			4734.00	
Hydraulic tool	5.00			4739.00	
Jars	5.00			4744.00	
Safety Joint	2.00			4746.00	
Packer	5.00			4751.00	30.00 Bottom Of Top Packer
Packer	4.00			4755.00	
Stubb	1.00			4756.00	
Perforations	5.00			4761.00	
Recorder	0.00	6720	Inside	4761.00	
Perforations	10.00			4771.00	
Recorder	0.00	2023	Outside	4771.00	
Bullnose	5.00			4776.00	21.00 Bottom Packers & Anchor

Total Tool Length: 51.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Oxy USA

Branstetter B-5

P.O. Box 2528 Liberal KS 67905

36/27s/34w

Job Ticket: 19079

DST#: 1

ATTN: Tom Heflin

Test Start: 2004.05.24 @ 03:29:15

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:

55000 ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbl

Water Loss: 14.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
922.00	5%G, 90%W, 5%M	12.826
120.00	5%G, 35%W, 60%M	2.361

Total Length: 1042.00 ft Total Volume: 15.187 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 100psi, 400 ml m, 3600 ml w RW=.103@92f=55000

Recovery: RW=.093@92f=55000

DST Test Number: 1

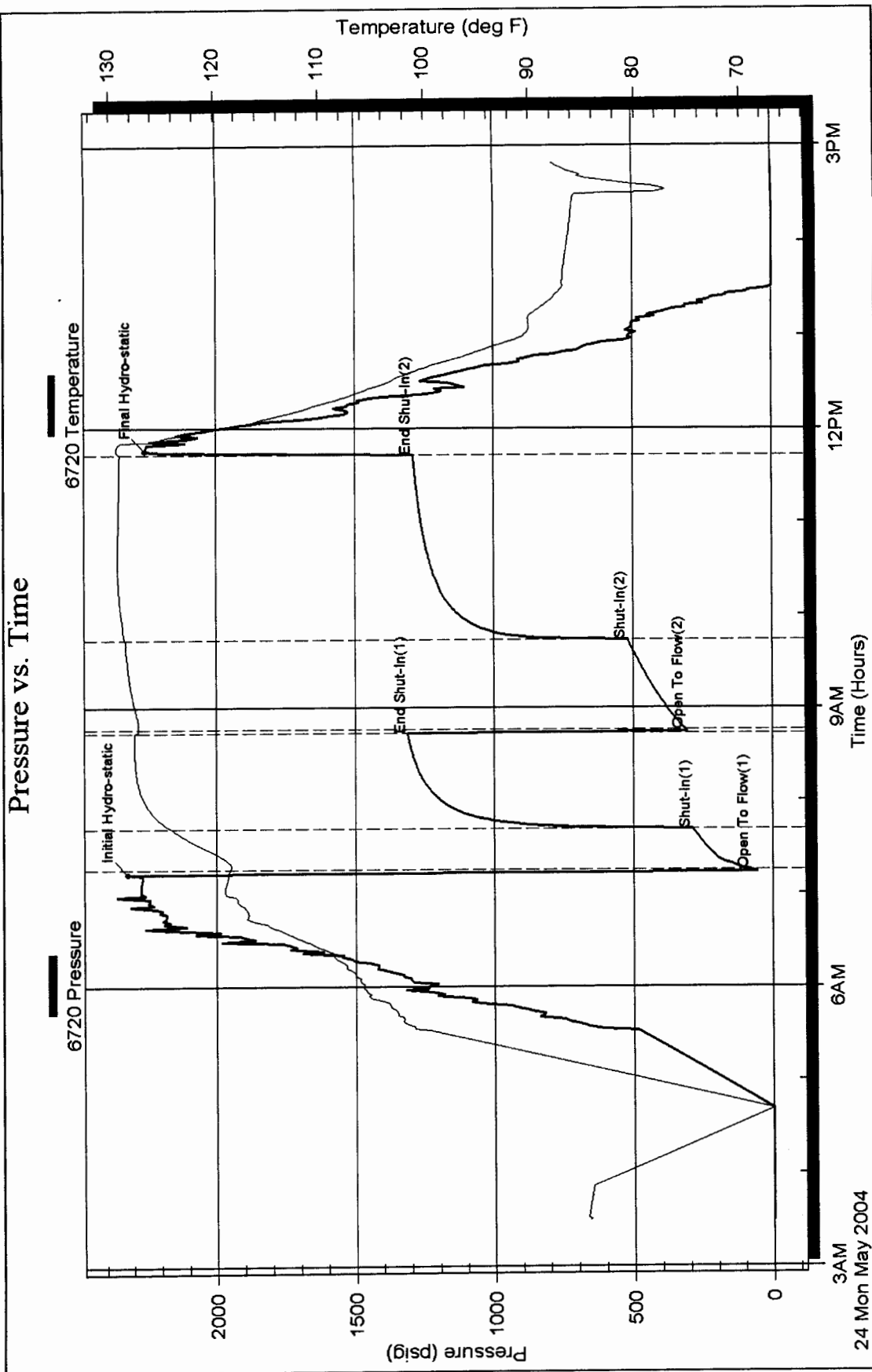
36/27s/34w

Oxy USA

Inside

Serial #: 6720

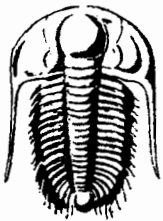
Pressure vs. Time



Ref. No: 19079

Trilobite Testing, Inc

Printed: 2004.06.03 @ 10:35:09 Page 5



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No. 19079

05/03

Test Ticket

Well Name & No. <u>Branstetter B-5</u>	Test No. <u>DST 1</u>	Date <u>5-24-04</u>
Company <u>Oxy USA</u>	Zone Tested <u>Marmaton</u>	
Address <u>P.O. Box 2528 Liberal, KS 67905</u>	Elevation <u>3035</u>	KB <u>3023</u> GL
Co. Rep / Geo. <u>Tom Heflin</u>	Cont. _____	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>36</u> Twp. <u>27S</u> Rge. <u>34W</u> Co. <u>Haskell</u>	State <u>KS</u>	
No. of Copies _____	Disbtribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4755-4776</u>	Initial Str Wt./Lbs. <u>721K</u>	Unseated Str Wt./Lbs. <u>78K</u>
Anchor Length <u>21'</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>90K</u>
Top Packer Depth <u>4750</u>	Tool Weight <u>2000</u>	
Bottom Packer Depth <u>4755</u>	Hole Size <u>7 7/8" ✓</u>	Rubber Size <u>6 3/4" ✓</u>
Total Depth <u>4776</u>	Wt. Pipe Run <u>N.A.</u>	Drill Collar Run <u>360</u>
Mud Wt. <u>9.1</u> LCM <u>3#</u> Vis. <u>40</u> WL <u>15</u>	Drill Pipe Size <u>4.5 x H</u>	Ft. Run <u>4391</u>
Blow Description <u>IE: BOB 6 min. steady blow</u>		
<u>ISI: No blow back</u>		
<u>FP: BOB 8 min. steady blow</u>		
<u>FSI: No blow back</u>		

Recovery - Total Feet <u>1042</u>	GIP <u>1042</u>	Ft. in DC <u>360</u>	Ft. in DP <u>682</u>
Rec. <u>922</u> Feet of _____	<u>5</u> %gas <u>Trace</u> %oil	<u>90</u> %water	<u>5</u> %mud
Rec. <u>120</u> Feet of _____	<u>5</u> %gas _____ %oil	<u>35</u> %water	<u>60</u> %mud
Rec. _____ Feet of _____	_____ %gas _____ %oil	_____ %water	_____ %mud
Rec. _____ Feet of _____	_____ %gas _____ %oil	_____ %water	_____ %mud
Rec. _____ Feet of _____	_____ %gas _____ %oil	_____ %water	_____ %mud
BHT <u>129</u> °F Gravity _____	°API D @ _____	°F Corrected Gravity _____	°API _____
RW <u>.093</u> @ <u>92</u> °F	Chlorides <u>55000</u> ppm Recovery _____	Chlorides <u>900</u> ppm System	

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2322</u>	PSI	Recorder No.	<u>6720 (340)</u>	Test <u>✓ 800</u>
(B) First Initial Flow Pressure	<u>81</u>	PSI	(depth)	<u>4761</u>	Elec. Rec. <u>✓ 150</u>
(C) First Final Flow Pressure	<u>289</u>	PSI	Recorder No.	<u>2023</u>	Jars <u>✓ 200</u>
(D) Initial Shut-In Pressure	<u>1312</u>	PSI	(depth)	<u>4776</u>	Safety Jt. <u>✓ 50</u>
(E) Second Initial Flow Pressure	<u>313</u>	PSI	Recorder No.		Circ Sub _____
(F) Second Final Flow Pressure	<u>521</u>	PSI	(depth)		Sampler <u>✓ 200</u>
(G) Final Shut-In Pressure	<u>1291</u>	PSI	Initial Opening	<u>30</u>	Straddle _____
(Q) Final Hydrostatic Mud	<u>2257</u>	PSI	Initial Shut-In	<u>60</u>	Ext. Packer _____
			Final Flow	<u>60</u>	Shale Packer _____
			Final Shut-In	<u>120</u>	Mileage <u>100</u> <u>85</u>
			T-On Location	<u>0300</u>	Sub Total: <u>1485</u>
			T-Started	<u>0400</u>	Std. By <u>x3 90 90</u>
			T-Open	<u>0725</u>	Other _____
			T-Pulled	<u>1155</u>	Total: <u>1575</u>
			T-Out	<u>1500</u>	

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 Tom Heflin

Our Representative [Signature]



TRILOBITE TESTING, INC.

P.O. Box 362 • Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 19079 Date 5-24-04
Company Name Oxy USA
Lease Branstetter B-5 Test No. 1
County Haskell Sec. 36 Twp. 27S Rng. 34W

SAMPLER RECOVERY

Gas _____ ML Chlorides 900 ppm.
Oil _____ ML Resistivity _____ ohms @ _____ F
Mud 400 ML Viscosity 40
Water 3600 ML Mud Weight 9.1
Other _____ ML Filtrate 15
Pressure 100 ~~psi~~ ML Other LCM = 3[#]
Total 4000 ML _____

PIT MUD ANALYSIS

SAMPLER ANALYSIS

Resistivity .103 ohms @ 92 F
Chlorides 55000 ppm.
Gravity _____ corrected @60F

PIPE RECOVERY

TOP
Resistivity .190 ohms @ 92 F
Chlorides 50000 ppm.

MIDDLE
Resistivity .093 ohms @ 92 F
Chlorides 55000 ppm.

BOTTOM
Resistivity .103 ohms @ 92 F
Chlorides 55000 ppm.

CHART PAGE

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

