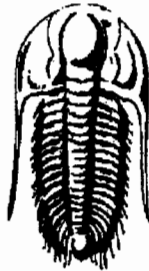


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**TRILOBITE
TESTING, INC.**

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

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Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Oxy USA

Branstetter B-5

36/27s/34w

DST # 1

Marmotom

2004.05.24



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**

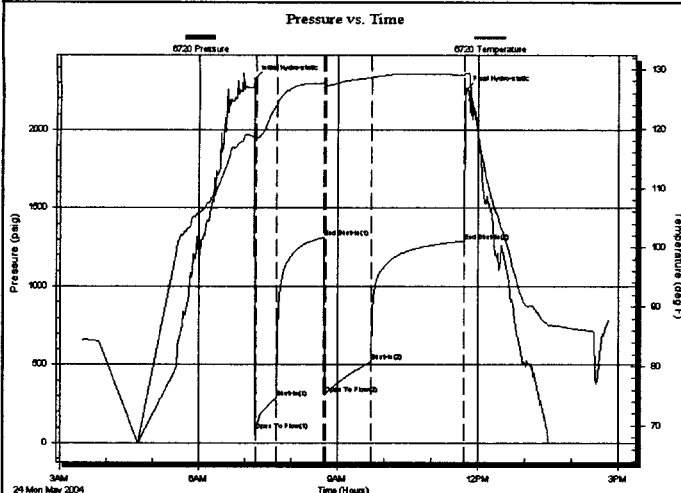
Serial #: 6720

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 Btmr: **2004.05.24 @ 07:12:30**
Time Off Btmr: **2004.05.24 @ 11:45:00**

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

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

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

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

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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

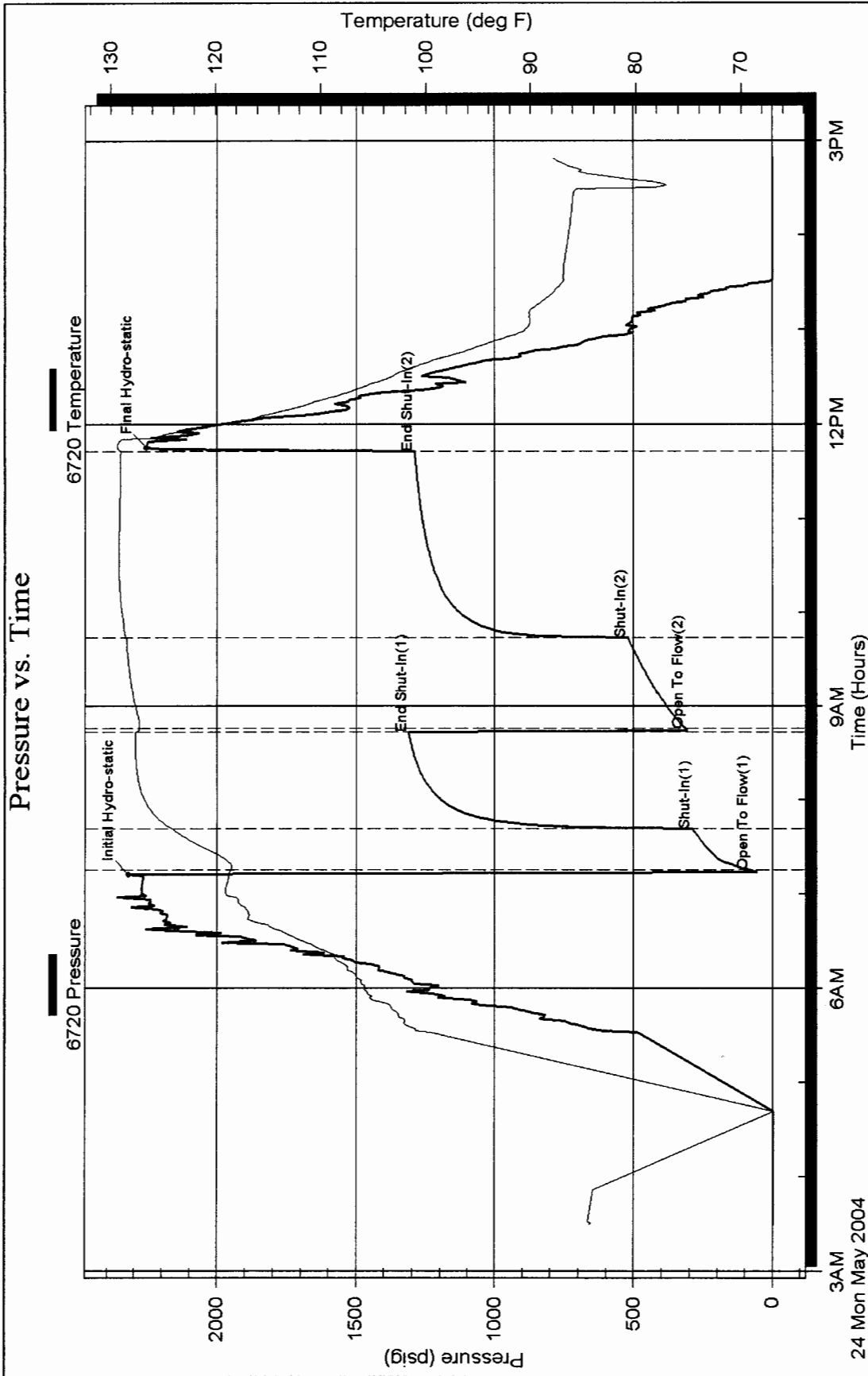
3627s/34w

Oxy USA

Inside

Serial #: 6720

Pressure vs. Time



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Ref. No: 19079

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