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RELEASED

JUN 18 2003

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MAY 31 2002

KCC WICHITA



**TRILOBITE
TESTING, INC.**

ORIGINAL

DRILL STEM TEST REPORT

KCC

MAY 29 2002

CONFIDENTIAL

Prepared For: **Oxy USA Inc**

P O Box 2528
Liberal, KS 67905

ATTN: Cal Wylie

13-34S-40w Morton Ks

Henshaw A-1

Start Date: 2002.02.18 @ 02:14:52

End Date: 2002.02.18 @ 12:45:21

Job Ticket #: 15534 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Oxy USA Inc

Henshaw A-1

13-34S-40w Morton Ks

DST # 1

Morrow

2002.02.18

CONFIDENTIAL

ORIGINAL


**TRILOBITE
TESTING, INC.**
DRILL STEM TEST REPORT
RELEASED

Oxy USA Inc

Henshaw A-1

P O Box 2528
Liberal, KS 67905

JUN 18 2003

13-34S-40w Morton Ks

Job Ticket: 15534

DST#: 1

ATTN: Cal Wyke

FROM CONFIDENTIAL

Test Start: 2002.02.18 @ 02:14:52

GENERAL INFORMATION:
Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:39:51

Time Test Ended: 12:45:21

Interval: 5678.00 ft (KB) To 5713.00 ft (KB) (TVD)

Total Depth: 5713.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

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Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Reference Elevations: 3339.00 ft (KB)

3327.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 3024

Inside

Press@RunDepth: 28.98 psig @ 5679.01 ft (KB)

Start Date: 2002.02.18

End Date:

2002.02.18

Capacity: 7000.00 psig

Last Calib.:

2002.02.18

Start Time: 02:14:52

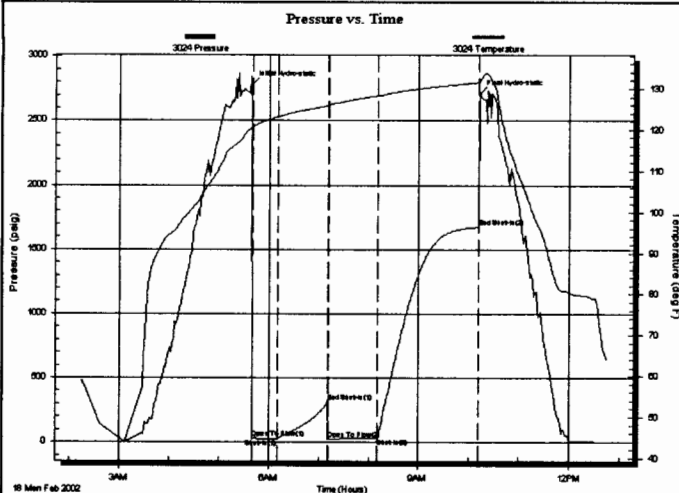
End Time:

12:45:21

Time On Btmr: 2002.02.18 @ 05:39:21

Time Off Btmr: 2002.02.18 @ 10:12:51

TEST COMMENT: IFP-weak blow thru-out 1/2" to 3" blow Sampler Data: PSI 300 Gas 100ML Mud 3900ML
 FFP-strong blow thru-out PIT Mud 4@ 65F chlores 900
 times 30-60-60-120


PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2775.20	120.52	Initial Hydro-static
1	29.50	120.68	Open To Flow (1)
31	25.84	123.14	Shut-In(1)
92	311.17	125.95	End Shut-In(1)
92	23.92	125.98	Open To Flow (2)
152	28.98	128.30	Shut-In(2)
273	1674.88	131.53	End Shut-In(2)
274	2711.53	131.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
710.00	GIP	6.68
10.00	mud	0.14

Gas Rates

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


**TRILOBITE
TESTING, INC.**
DRILL STEM TEST REPORT
TOOL DIAGRAM

Oxy USA Inc

Henshaw A-1

 P O Box 2528
 Liberal, KS 67905

13-34S-40w Morton Ks

Job Ticket: 15534

DST#: 1

ATTN: Cal Wylie

Test Start: 2002.02.18 @ 02:14:52

Tool Information

Drill Pipe:	Length: 5310.00 ft	Diameter: 3.80 inches	Volume: 74.49 bbl	Tool Weight: 2800.00 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: 360.00 ft	Diameter: 2.25 inches	Volume: 1.77 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume: 76.26 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	5678.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.02 ft			
Tool Length:	67.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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C.O. Sub	1.00			5647.00	
S.I. Tool	5.00			5652.00	
Sampler	4.00			5656.00	
HMV	5.00			5661.00	
Jars	5.00			5666.00	
Safety Joint	2.00			5668.00	
Packer	5.00			5673.00	32.00 Bottom Of Top Packer
Packer	5.00			5678.00	
Stubb	1.00			5679.00	
Recorder	0.01	3024	Inside	5679.01	
Perforations	31.00			5710.01	
Recorder	0.01	11085	Outside	5710.02	
Bullnose	3.00			5713.02	35.02 Bottom Packers & Anchor

Total Tool Length: 67.02

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DRILL STEM TEST REPORT

FLUID SUMMARY

Oxy USA Inc
P O Box 2528
Liberal, KS 67905
ATTN: Cal Wylie

Henshaw A-1
13-34S-40w Morton Ks
Job Ticket: 15534 **DST#: 1**
Test Start: 2002.02.18 @ 02:14:52

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 62.00 sec/qt

Water Loss: 7.60 in³

Resistivity: 4.00 ohm.m

Salinity: 900.00 ppm

Filter Cake: 2.00 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
710.00	GIP	6.680
10.00	mud	0.140

Total Length: 720.00 ft

Total Volume: 6.820 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3024

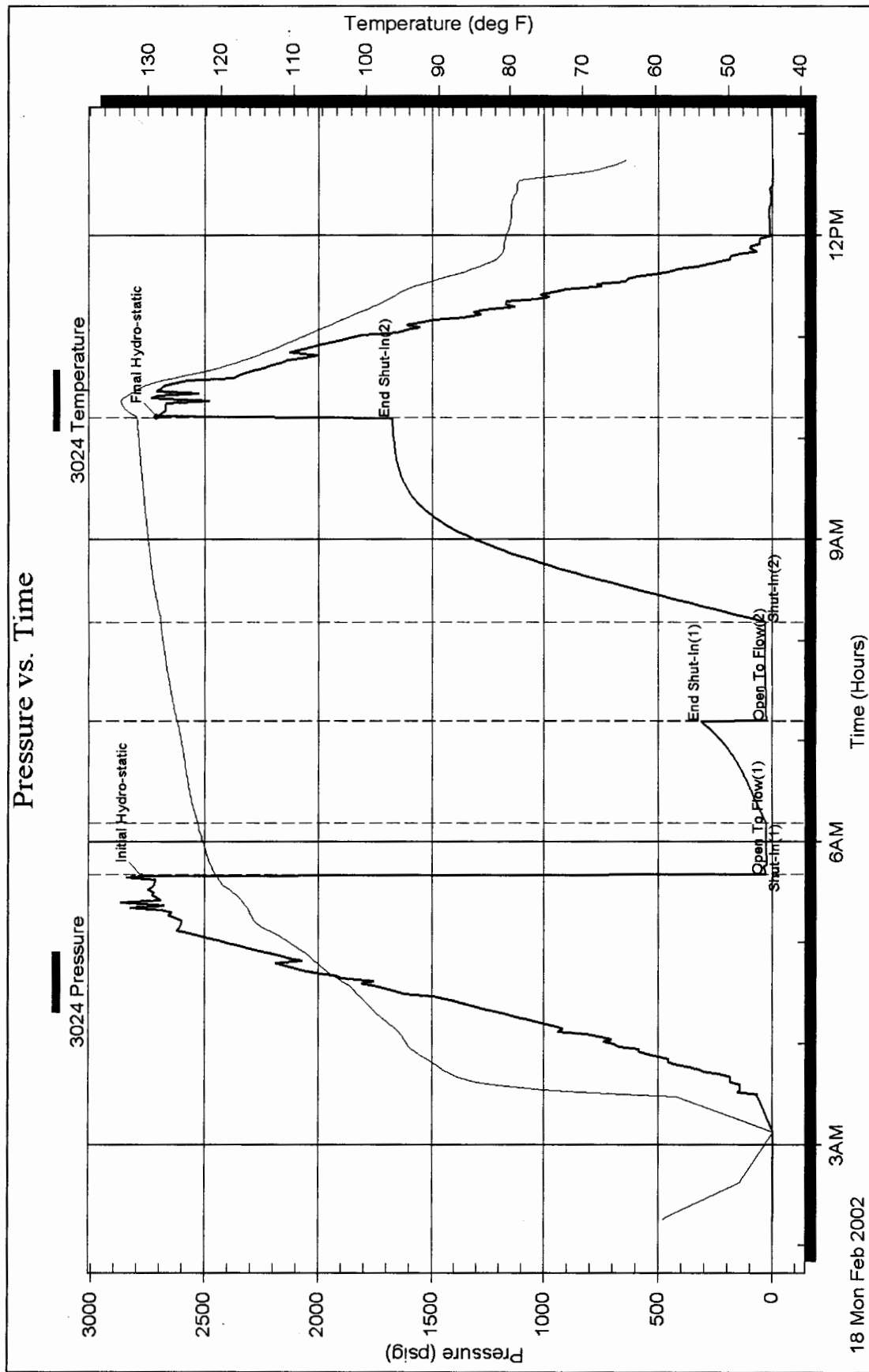
Inside

Oxy USA Inc

13-34S-40w Morton Ks

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 15534

Printed: 2002.02.21 @ 09:15:28 Page 5