

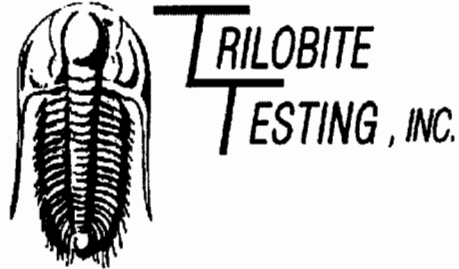
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**DRILL STEM TEST REPORT**

Prepared For: **OXY USA INC.**

PO Box 2528  
Liberal Ks 67905

ATTN: Tom Heflin

**13 27s 35w Grant**

**Ladner F-4**

Start Date: 2003.02.17 @ 03:50:53

End Date: 2003.02.17 @ 13:18:38

Job Ticket #: 16552                      DST #: 1

**RECEIVED**  
**JUN 03 2003**  
**KCC WICHITA**

OXY USA INC.

Ladner F-4

13 27s 35w Grant

DST # 1

LANSING

2003.02.17

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 INC.

**Ladner F-4**

PO Box 2528  
Liberal Ks 67905

**13 27s 35w Grant**

ATTN: Tom Heflin

Job Ticket: 16552

**DST#: 1**

Test Start: 2003.02.17 @ 03:50:53

### GENERAL INFORMATION:

Formation: **LANSING**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:28:23

Time Test Ended: 13:18:38

Test Type: Conventional Bottom Hole

Tester: Wenrich

Unit No: 24

Interval: **3993.00 ft (KB) To 4029.00 ft (KB) (TVD)**

Reference Elevations: 3008.00 ft (KB)

Total Depth: 4029.00 ft (KB) (TVD)

2997.00 ft (CF)

Hole Diameter: 7.79 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 3310**

**Inside**

Press@RunDepth: 250.16 psig @ 3994.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2003.02.17

End Date: 2003.02.17

Last Calib.: 1899.12.30

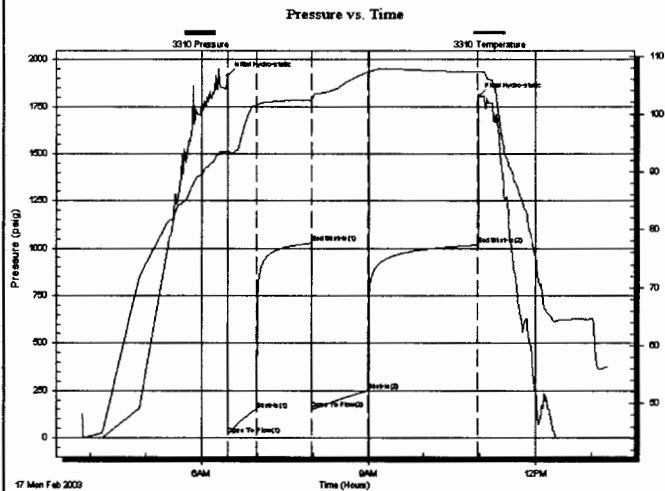
Start Time: 03:50:58

End Time: 13:18:38

Time On Btm: 2003.02.17 @ 06:27:53

Time Off Btm: 2003.02.17 @ 10:58:53

**TEST COMMENT:** IF: Strong blow .BOB in 23 mins.  
IS: No blow.  
FF: Strong blow .BOB in 30 mins  
FS: No blow.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.86	93.57	Initial Hydro-static
1	17.78	93.36	Open To Flow (1)
32	148.32	101.57	Shut-In (1)
91	1027.14	102.47	End Shut-In (1)
91	151.11	102.43	Open To Flow (2)
152	250.16	107.37	Shut-In (2)
271	1017.94	107.36	End Shut-In (2)
271	1804.93	107.40	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
340.00	Water	2.26
180.00	Water cut mud 40%w 60%m	2.52

### Gas Rates

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



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TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

OXY USA INC.

**Ladner F-4**

PO Box 2528  
Liberal Ks 67905

**13 27s 35w Grant**

Job Ticket: 16552

**DST#: 1**

ATTN: Tom Heflin

Test Start: 2003.02.17 @ 03:50:53

### Tool Information

Drill Pipe:	Length: 3718.00 ft	Diameter: 3.80 inches	Volume: 52.15 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: 275.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 53.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	3993.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	66.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3964.00	
S.I. Tool	5.00			3969.00	
Sampler	3.00			3972.00	
HMV	5.00			3977.00	
Jars	5.00			3982.00	
Safety Joint	2.00			3984.00	
Packer	4.00			3988.00	30.00 Bottom Of Top Packer
Packer	5.00			3993.00	
Stubb	1.00			3994.00	
Recorder	0.00	3310	Inside	3994.00	
Perforations	33.00			4027.00	
Recorder	0.00	10242	Outside	4027.00	
Bullnose	2.00			4029.00	36.00 Bottom Packers & Anchor

**Total Tool Length: 66.00**



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## DRILL STEM TEST REPORT

FLUID SUMMARY

OXY USA INC.

Ladner F-4

PO Box 2528  
Liberal Ks 67905

13 27s 35w Grant

Job Ticket: 16552

DST#: 1

ATTN: Tom Heflin

Test Start: 2003.02.17 @ 03:50:53

### 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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 37.93 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 0.20 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	Water	2.264
180.00	Water cut mud 40%w 60%m	2.525

Total Length: 520.00 ft      Total Volume: 4.789 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3310

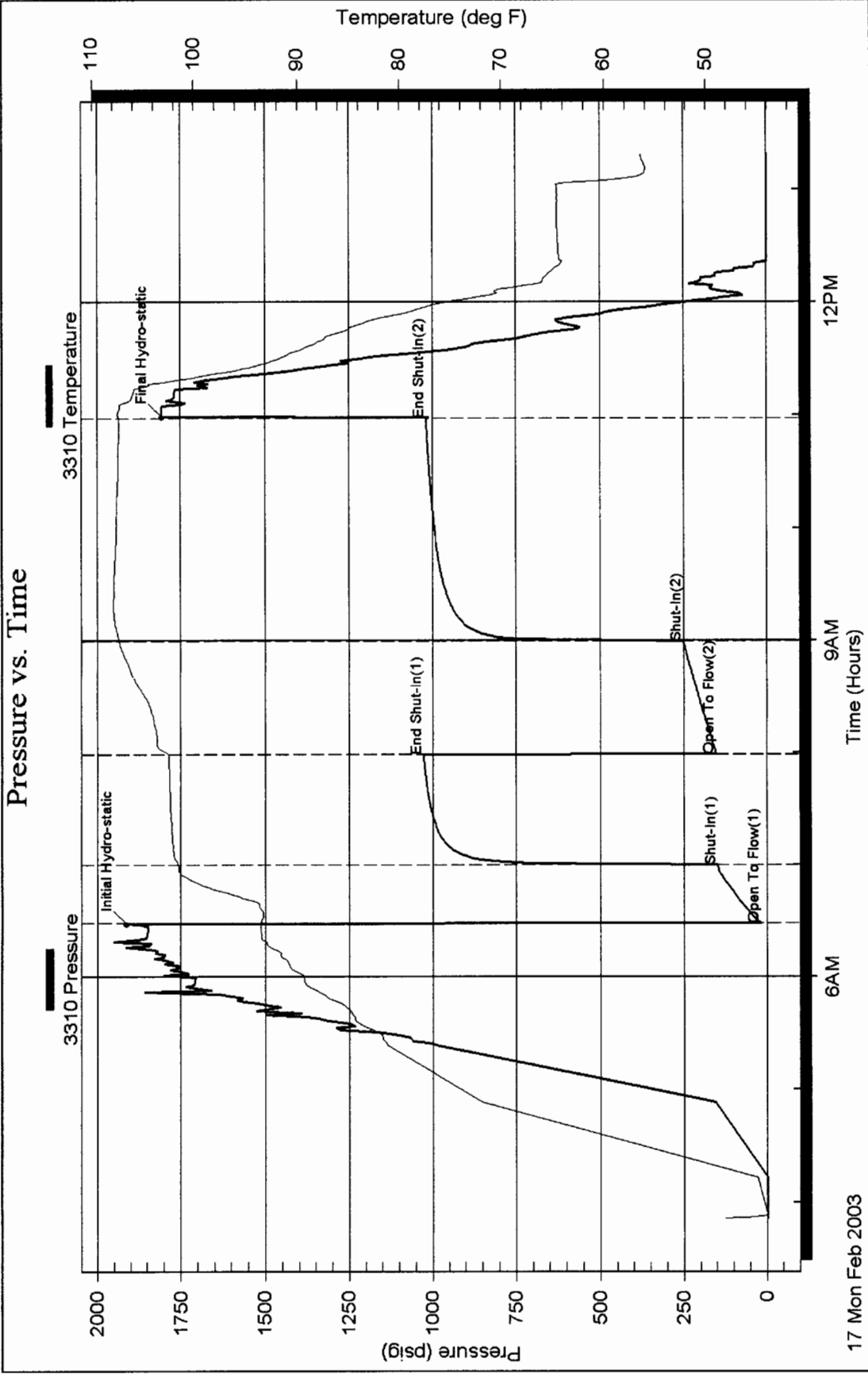
Inside

OXY USA INC.

13 27s 35w Grant

DST Test Number: 1

### Pressure vs. Time



17 Mon Feb 2003

Trilobite Testing, Inc

Ref. No: 16552

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