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ORIGINAL

RECEIVED

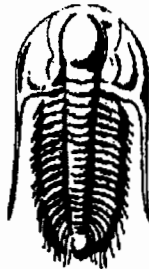
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CONFIDENTIAL



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Oxy USA, Inc.**

P.O. Box 2528
Liberal, KS. 67905

ATTN: Tom Heflin

11-27S-35W

Ladner G-2

Start Date: 2003.01.25 @ 03:23:22

End Date: 2003.01.25 @ 14:59:52

Job Ticket #: 15826 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Oxy USA, Inc.

Ladner G-2

11-27S-35W

DST # 1

Morrow

2003.01.25

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

Oxy USA, Inc.

P.O. Box 2528
Liberal, KS. 67905

ATTN: Tom Heflin

KCC**MAY 09 2003****CONFIDENTIAL****Ladner G-2****11-27S-35W**

Job Ticket: 15826

DST#: 1

Test Start: 2003.01.25 @ 03:23:22

GENERAL INFORMATION:Formation: **Morrow**Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 06:20:22

Time Test Ended: 14:59:52

Interval: **5026.00 ft (KB) To 5087.00 ft (KB) (TVD)**Total Depth: **5087.00 ft (KB) (TVD)**Hole Diameter: **77.80 inches** Hole Condition: **Good**Test Type: **Conventional Bottom Hole**Tester: **Shad Vieux**Unit No: **17**Reference Elevations: **3036.00 ft (KB)****3025.00 ft (CF)**KB to GR/CF: **11.00 ft****Serial #: 3307****Inside**Press@RunDepth: **1179.54 psig @ 5038.00 ft (KB)**Start Date: **2003.01.25**

End Date:

2003.01.25Capacity: **7000.00 psig**Last Calib.: **1899.12.30**Start Time: **03:23:23**

End Time:

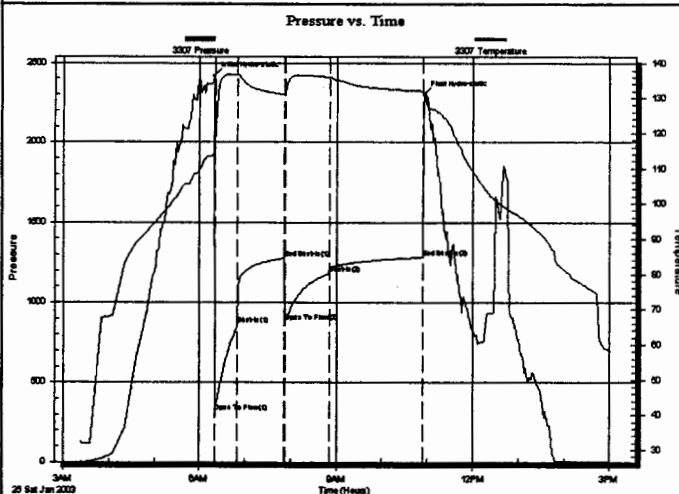
14:59:52Time On Btm: **2003.01.25 @ 06:18:52**Time Off Btm: **2003.01.25 @ 10:54:52**

TEST COMMENT: IF- Strong Blow B.O.B. in 1 min.

IS- No Blow Back

FF- Strong Blow B.O.B. in 4 min.

FSI- No Blow Back

**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2420.13	114.05	Initial Hydro-static
2	314.51	114.95	Open To Flow (1)
32	859.47	136.84	Shut-In (1)
93	1276.22	131.09	End Shut-In (1)
94	882.54	131.06	Open To Flow (2)
151	1179.54	136.04	Shut-In (2)
275	1282.66	132.04	End Shut-In (2)
276	2299.99	131.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	3%-G 27%-W 70%-M	0.91
186.00	5%-G 25%-W 70%-M	1.79
2009.00	5%-G 95%-W	28.18

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.

Ladner G-2

 P.O. Box 2528
 Liberal, KS. 67905

11-27S-35W

Job Ticket: 15826

DST#: 1

ATTN: Tom Heflin

Test Start: 2003.01.25 @ 03:23:22

Tool Information

Drill Pipe:	Length: 4726.00 ft	Diameter: 3.80 inches	Volume: 66.29 bbl	Tool Weight: 1800.00 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: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 94000.00 lb
		Total Volume:	67.65 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String weight: Initial 74000.00 lb
Depth to Top Packer:	5026.00 ft			Final 86000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4997.00	
S.I. Tool	5.00			5002.00	
Sampler	3.00			5005.00	
HMV	5.00			5010.00	
Jars	5.00			5015.00	
Safety Joint	2.00			5017.00	
Packer	5.00			5022.00	30.00 Bottom Of Top Packer
Packer	4.00			5026.00	
Stubb	1.00			5027.00	
Perforations	10.00			5037.00	
C.O. Sub	1.00			5038.00	
Recorder	0.00	3307	Inside	5038.00	
Blank Spacing	31.00			5069.00	
C.O. Sub	1.00			5070.00	
Perforations	14.00			5084.00	
Recorder	0.00	5495	Inside	5084.00	
Bullnose	3.00			5087.00	61.00 Bottom Packers & Anchor
Total Tool Length:	91.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

CONFIDENTIAL

FLUID SUMMARY

Oxy USA, Inc.

Ladner G-2

P.O. Box 2528
Liberal, KS. 67905

11-27S-35W

Job Ticket: 15826

DST#: 1

ATTN: Tom Heflin

Test Start: 2003.01.25 @ 03:23:22

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: 200000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	3%-G 27%-W 70%-M	0.915
186.00	5%-G 25%-W 70%-M	1.789
2009.00	5%-G 95%-W	28.181

Total Length: 2381.00 ft Total Volume: 30.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

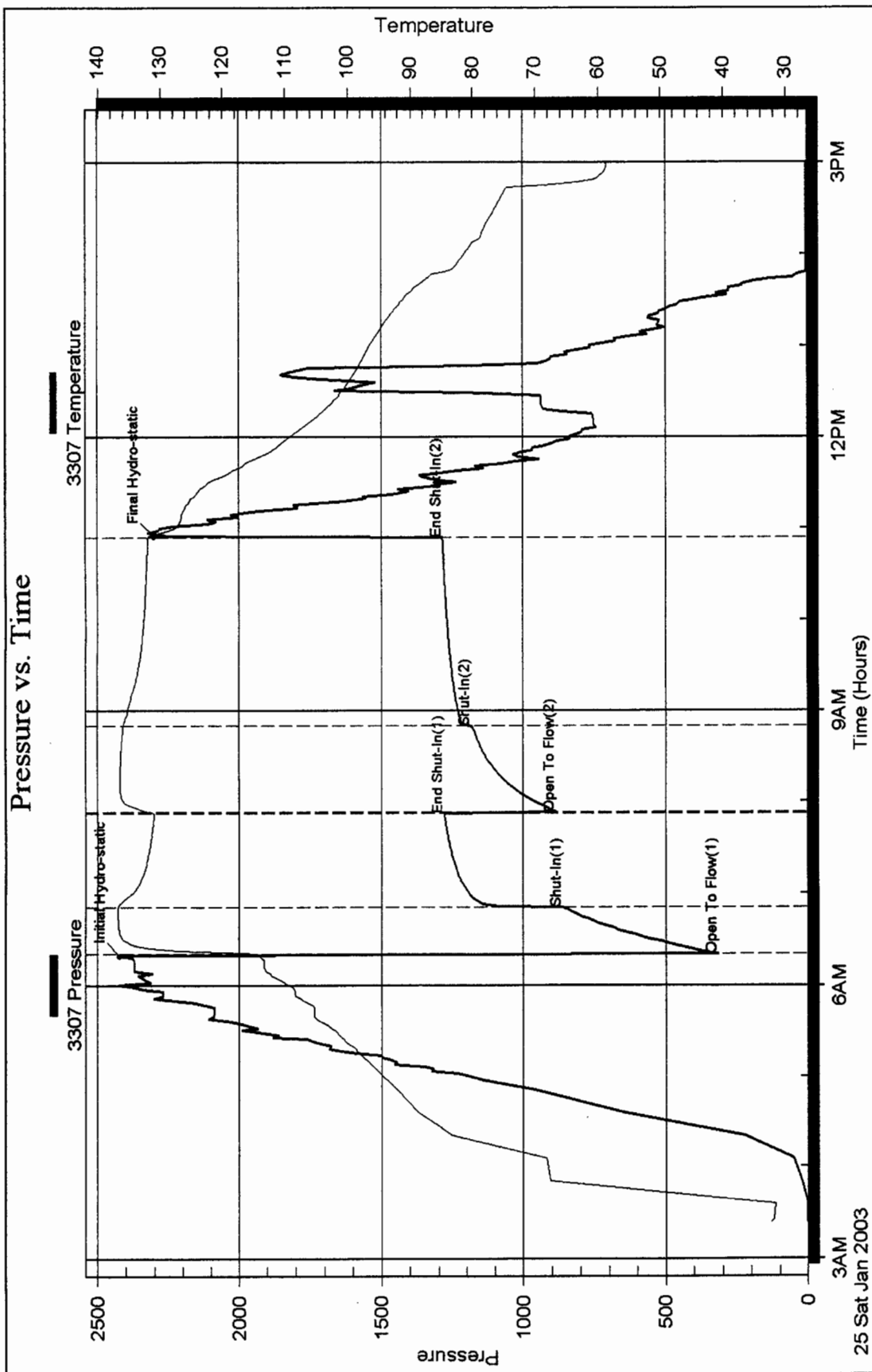
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .050 @ 67.7 F = 200000ppm
4000 ml of water @ 1200 psi in sampler

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Oxy USA, Inc.**

P.O. Box 2528
Liberal, KS. 67905

ATTN: Tom Heflin

11-27S-35W

Ladner G-2

Start Date: 2003.01.26 @ 04:05:03

End Date: 2003.01.26 @ 12:02:03

Job Ticket #: 15827 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

Oxy USA, Inc.

P.O. Box 2528
Liberal, KS. 67905

ATTN: Tom Heflin

Ladner G-2

11-27S-35W

Job Ticket: 15827

DST#: 2

Test Start: 2003.01.26 @ 04:05:03

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:47:33

Time Test Ended: 12:02:03

Test Type: Conventional Bottom Hole

Tester: Shad Vieux

Unit No: 17

Interval: **5134.00 ft (KB) To 5180.00 ft (KB) (TVD)**

Total Depth: 5180.00 ft (KB) (TVD)

Hole Diameter: 77.80 inches Hole Condition: Good

Reference Elevations: 3036.00 ft (KB)

3025.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 3307

Inside

Press@RunDepth: 36.43 psig @ 5140.00 ft (KB)

Start Date: 2003.01.26

End Date:

2003.01.26

Capacity: 7000.00 psig

Last Calib.: 1899.12.30

Start Time: 04:05:04

End Time:

12:02:03

Time On Btm: 2003.01.26 @ 06:47:03

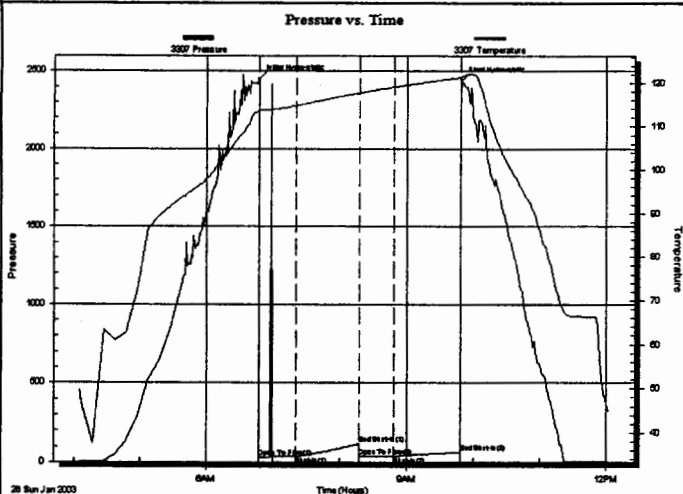
Time Off Btm: 2003.01.26 @ 09:49:03

TEST COMMENT: IF- Weak Blow Slight Surface Blow decreased to No Blow Flushed Tool

IS- No Blow Back

FF- Weak Blow Slight Surface Blow decreased to No Blow

FS- No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2452.74	113.67	Initial Hydro-static
1	29.48	113.80	Open To Flow (1)
34	33.45	114.80	Shut-in(1)
90	115.78	117.67	End Shut-in(1)
91	36.07	117.71	Open To Flow (2)
122	36.43	119.05	Shut-in(2)
181	62.70	121.26	End Shut-in(2)
182	2442.14	121.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	1%-O 99%-M	0.15

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, Inc.

Ladner G-2

P.O. Box 2528
Liberal, KS. 67905

11-27S-35W

Job Ticket: 15827

DST#:2

ATTN: Tom Heflin

Test Start: 2003.01.26 @ 04:05:03

Tool Information

Drill Pipe:	Length: 4846.00 ft	Diameter: 3.80 inches	Volume: 67.98 bbl	Tool Weight:	1800.00 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: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 69.34 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	74000.00 lb
Depth to Top Packer:	5134.00 ft			Final	74000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	76.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					
Flushed Tool 10 min. into IF					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5105.00	
S.I. Tool	5.00			5110.00	
Sampler	3.00			5113.00	
HMV	5.00			5118.00	
Jars	5.00			5123.00	
Safety Joint	2.00			5125.00	
Packer	5.00			5130.00	30.00 Bottom Of Top Packer
Packer	4.00			5134.00	
Stubb	1.00			5135.00	
Perforations	4.00			5139.00	
C.O. Sub	1.00			5140.00	
Recorder	0.00	3307	Inside	5140.00	
Blank Spacing	31.00			5171.00	
C.O. Sub	1.00			5172.00	
Perforations	5.00			5177.00	
Recorder	0.00	5495	Inside	5177.00	
Bullnose	3.00			5180.00	46.00 Bottom Packers & Anchor
Total Tool Length:		76.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

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Ladner G-2

P.O. Box 2528
Liberal, KS. 67905

11-27S-35W

Job Ticket: 15827

DST#: 2

ATTN: Tom Heflin

Test Start: 2003.01.26 @ 04:05:03

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:

11000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	1%-O 99%-M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .928 @ 43.1 F = 11,000 ppm
4000 ml of Mud in sampler @ 60 psi.

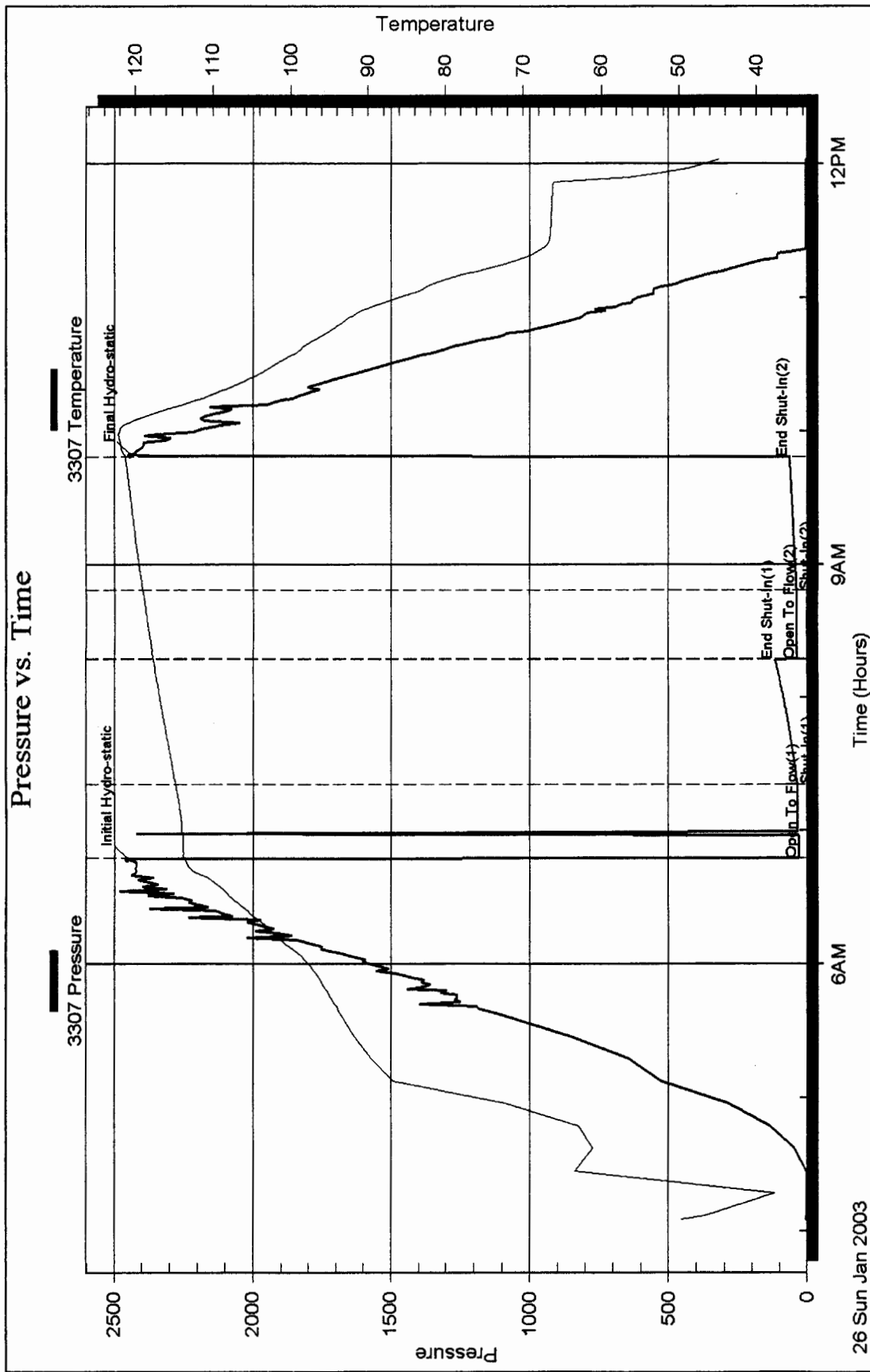
Serial #: 3307

Inside

Oxy USA, Inc.

11-27S-35W

DST Test Number: 2



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