TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **OXY USA Inc.**

P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

17/34/33

Brown C #4

Start Date: 2005.02.24 @ 15:30:17
End Date: 2005.02.25 @ 02:49:32
Job Ticket #: 21807 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

OXY USA Inc.
P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

Brown C #4

17/34/33

Job Ticket: 21807 **DST#: 1**

Test Start: 2005.02.24 @ 15:30:17

GENERAL INFORMATION:

Formation:
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 18:44:02
Time Test Ended: 02:49:32

Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 15

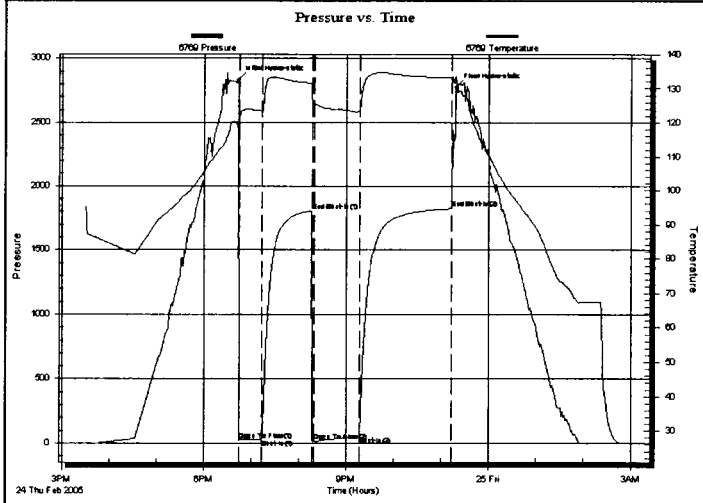
Interval: 5977.00 ft (KB) To 6024.00 ft (KB) (TVD)
Total Depth: 6024.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2871.00 ft (KB)
2859.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6769 **Inside**

Press@RunDepth:	53.40 psig @	5979.00 ft (KB)		Capacity:	7000.00 psig
Start Date:	2005.02.24	End Date:	2005.02.25	Last Calib.:	1899.12.30
Start Time:	15:30:19	End Time:	02:49:32	Time On Btm:	2005.02.24 @ 18:42:47
				Time Off Btm:	2005.02.24 @ 23:18:17

TEST COMMENT: IF- Strong blow, BOB 1min, GTS 21 min. TSTM.
ISI- No blow back.
FF- BOB, GTS, ASAO.
FSI- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2834.78	118.42	Initial Hydro-static
2	26.78	121.42	Open To Flow (1)
31	29.99	123.42	Shut-In(1)
94	1805.60	131.54	End Shut-In(1)
96	14.91	125.51	Open To Flow (2)
154	53.40	123.19	Shut-In(2)
270	1821.93	133.32	End Shut-In(2)
276	2776.92	133.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	100% mud.	0.10

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.00	7.64
Last Gas Rate	0.13	35.00	18.49
Max. Gas Rate	0.13	35.00	18.49

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC

OXY USA Inc.

P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

Brown C #4

17/34/33

Job Ticket: 21807 **DST#: 1**

Test Start: 2005.02.24 @ 15:30:17

Tool Information

Drill Pipe:	Length:	5418.00 ft	Diameter:	3.80 inches	Volume:	76.00 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:		30000.00 lb
Drill Collar:	Length:	557.00 ft	Diameter:	2.25 inches	Volume:	2.74 bbl	Weight to Pull Loose:		lb
					Total Volume:	78.74 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		29.00 ft					String Weight:	Initial	94000.00 lb
Depth to Top Packer:		5977.00 ft						Final	lb
Depth to Bottom Packer:		ft							
Interval between Packers:		47.00 ft							
Tool Length:		78.00 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	2.00			5948.00		
Shut In Tool	5.00			5953.00		
Sampler	3.00			5956.00		
Hydraulic tool	5.00			5961.00		
Jars	5.00			5966.00		
Safety Joint	2.00			5968.00		
Packer	5.00			5973.00	31.00	Bottom Of Top Packer
Packer	4.00			5977.00		
Stubb	1.00			5978.00		
Perforations	1.00			5979.00		
Recorder	0.00	6769	Inside	5979.00		
Change Over Sub	1.00			5980.00		
Drill Pipe	31.00			6011.00		
Change Over Sub	1.00			6012.00		
Perforations	8.00			6020.00		
Recorder	0.00	6724	Outside	6020.00		
Bullnose	4.00			6024.00	47.00	Bottom Packers & Anchor
Total Tool Length:	**78.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC

OXY USA Inc.

P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

Brown C #4

17/34/33

Job Ticket: 21807 **DST#: 1**

Test Start: 2005.02.24 @ 15:30:17

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:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.97 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	2200.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	100% mud.	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

DRILL STEM TEST REPORT

GAS RATES

TRILOBITE TESTING, INC.

OXY USA Inc.

P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

Brown C #4

17/34/33

Job Ticket: 21807 **DST#: 1**

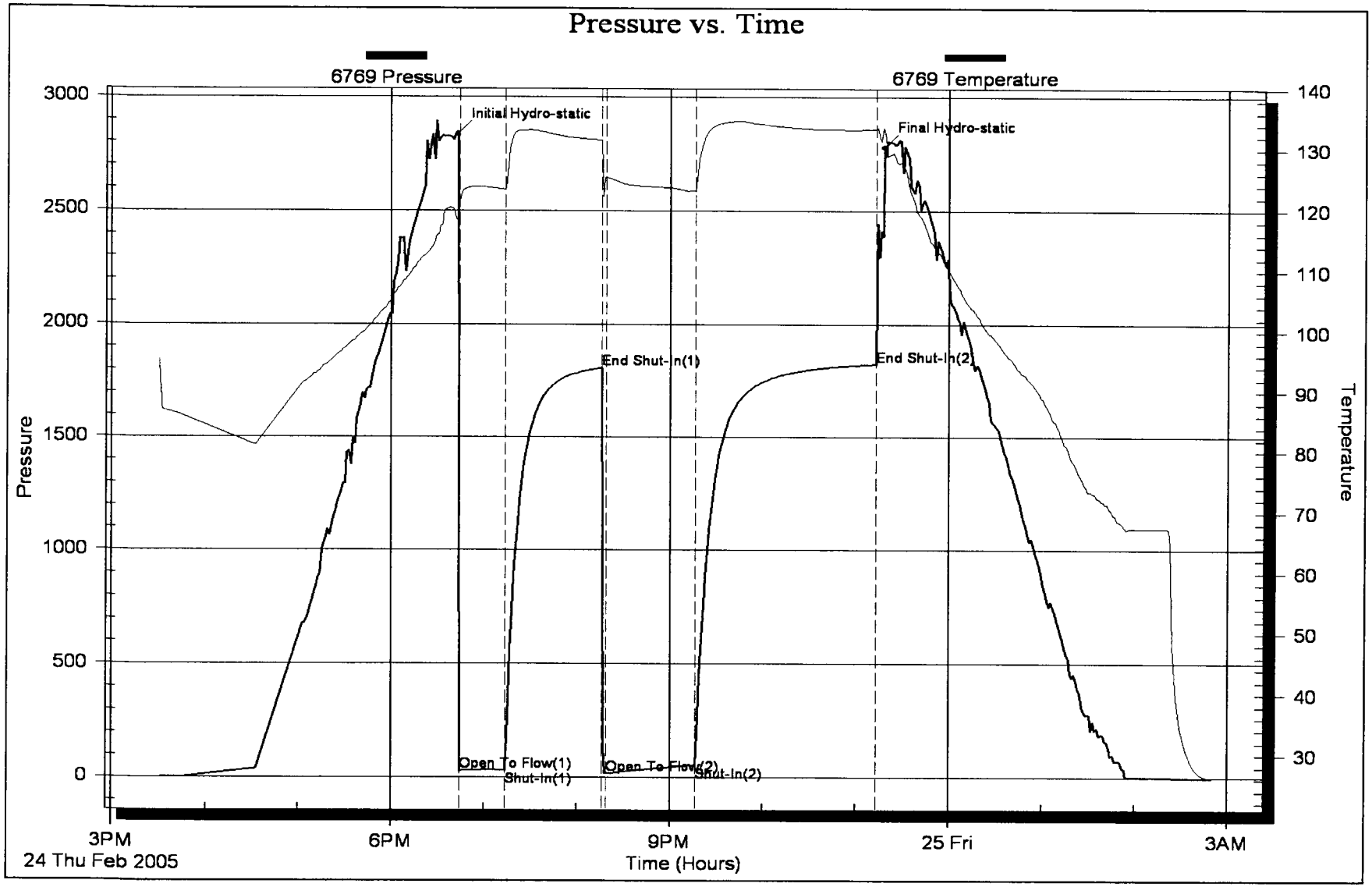
Test Start: 2005.02.24 @ 15:30:17

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
2	10	0.13	6.00	7.64
2	20	0.13	13.00	10.26
2	30	0.13	20.00	12.88
2	40	0.13	25.00	14.75
2	50	0.13	30.00	16.62
2	60	0.13	35.00	18.49


Pressure vs. Time
6769 Pressure
6769 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
3000
2500
2000
1500
1000
500
0
140
130
120
110
100
90
80
70
60
50
40
30
3PM
24 Thu Feb 2005
6PM
9PM
25 Fri
3AM
Time (Hours)

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **OXY USA Inc.**

P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

17/34/33

Brown C #4

Start Date: 2005.02.26 @ 09:27:05
End Date: 2005.02.26 @ 20:03:50
Job Ticket #: 21808 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

OXY USA Inc.

P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

Brown C #4

17/34/33

Job Ticket: 21808 **DST#: 2**

Test Start: 2005.02.26 @ 09:27:05

GENERAL INFORMATION:

Formation: **Chester**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:27:50
Time Test Ended: 20:03:50

Interval: 6262.00 ft (KB) To 6285.00 ft (KB) (TVD)
Total Depth: 6285.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

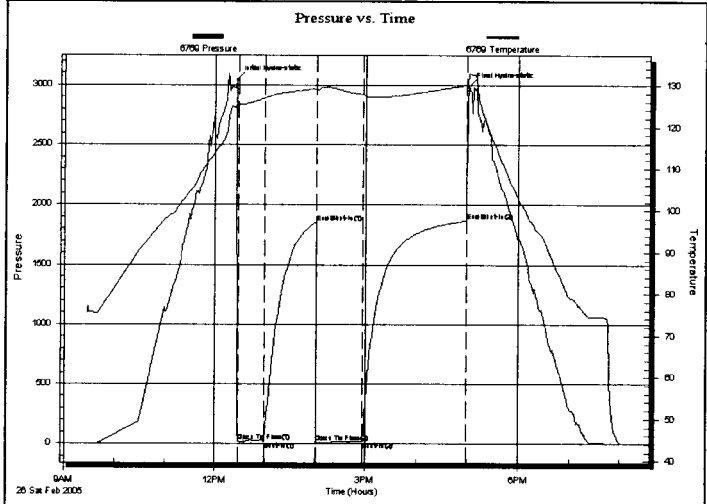
Test Type: Conventional Bottom Hole
Tester: Harley Davidson
Unit No: 15

Reference Elevations: 2871.00 ft (KB)
2859.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6769 **Inside**

Press@RunDepth:	16.30 psig @	6265.00 ft (KB)		Capacity:	7000.00 psig
Start Date:	2005.02.26	End Date:	2005.02.26	Last Calib.:	1899.12.30
Start Time:	09:27:07	End Time:	20:03:50	Time On Btm:	2005.02.26 @ 12:25:50
				Time Off Btm:	2005.02.26 @ 17:00:50

TEST COMMENT: IF- Good blow BOB 7min. No GTS.
ISI- No blow back.
FF- BOB ASAO, No GTS.
FSI- No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3047.16	125.37	Initial Hydro-static
2	16.85	125.25	Open To Flow (1)
34	21.49	126.94	Shut-In(1)
95	1850.31	129.25	End Shut-In(1)
96	9.95	128.83	Open To Flow (2)
151	16.30	127.76	Shut-In(2)
273	1868.06	130.07	End Shut-In(2)
275	2990.24	132.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	560 GIP	0.00
20.00	100% mud.	0.10

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TRILOBITE TESTING, INC

OXY USA Inc.
P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

Brown C #4

17/34/33

Job Ticket: 21808 **DST#: 2**

Test Start: 2005.02.26 @ 09:27:05

Tool Information

Drill Pipe:	Length:	5695.00 ft	Diameter:	3.80	inches	Volume:	79.89	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:		30000.00 lb
Drill Collar:	Length:	557.00 ft	Diameter:	2.25	inches	Volume:	2.74	bbl	Weight to Pull Loose:		94000.00 lb
						Total Volume:	82.63	bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		21.00 ft							String Weight:	Initial	92000.00 lb
Depth to Top Packer:		6262.00 ft								Final	92000.00 lb
Depth to Bottom Packer:		ft									
Interval between Packers:		23.00 ft									
Tool Length:		54.00 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	2.00			6233.00		
Shut In Tool	5.00			6238.00		
Sampler	3.00			6241.00		
Hydraulic tool	5.00			6246.00		
Jars	5.00			6251.00		
Safety Joint	2.00			6253.00		
Packer	5.00			6258.00	31.00	Bottom Of Top Packer
Packer	4.00			6262.00		
Stubb	1.00			6263.00		
Perforations	2.00			6265.00		
Recorder	0.00	6769	Inside	6265.00		
Perforations	16.00			6281.00		
Recorder	0.00	6724	Outside	6281.00		
Bullnose	4.00			6285.00	23.00	Bottom Packers & Anchor
Total Tool Length:	**54.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TRILOBITE TESTING, INC

OXY USA Inc.
P.O. Box 2528
Liberal Ks. 67905

ATTN: Marvin Harvey

Brown C #4

17/34/33

Job Ticket: 21808 **DST#: 2**

Test Start: 2005.02.26 @ 09:27:05

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:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	6.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	560 GIP	0.000
20.00	100% mud.	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

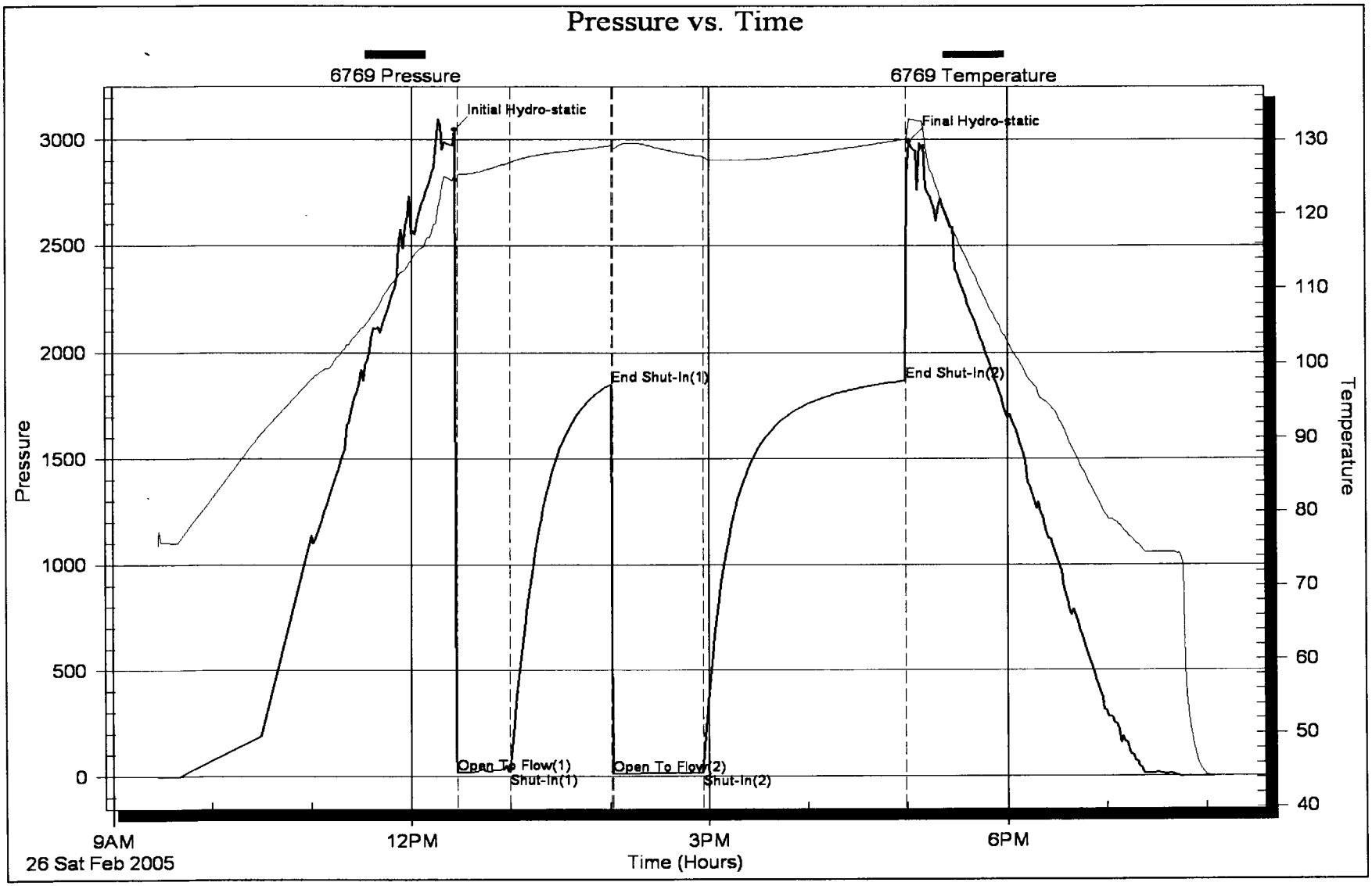
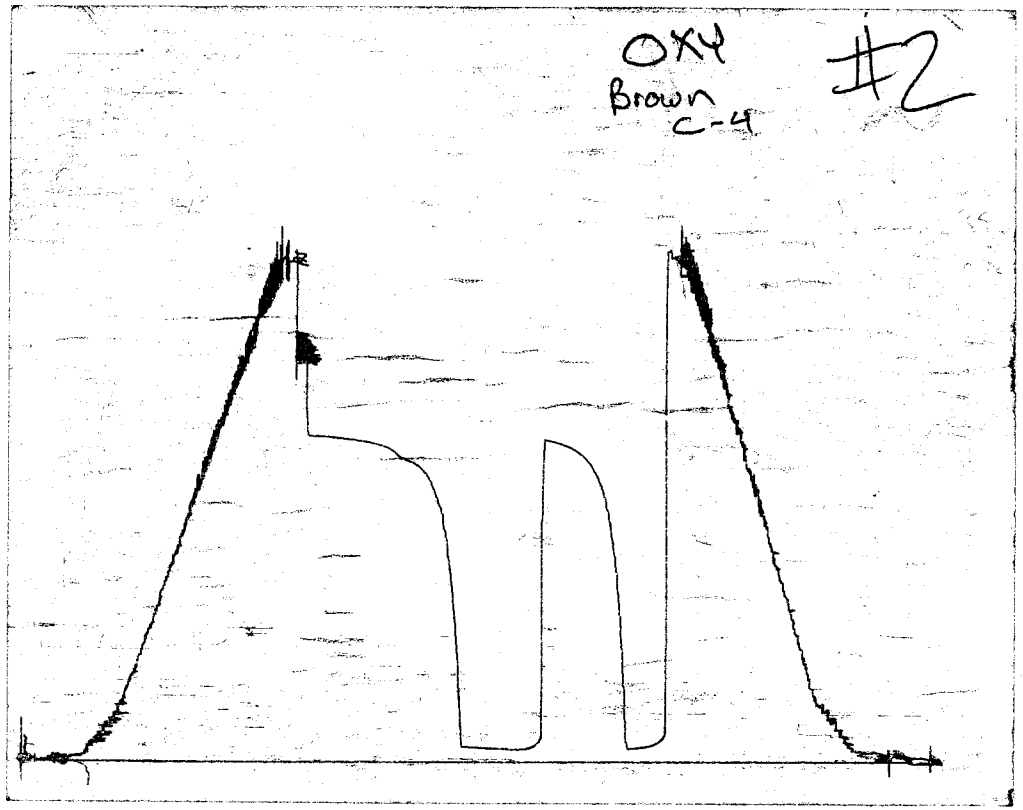

Pressure vs. Time
6769 Pressure
6769 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure
Temperature
3000
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
50
40
9AM
26 Sat Feb 2005
12PM
3PM
6PM
Time (Hours)

CHART PAGE

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