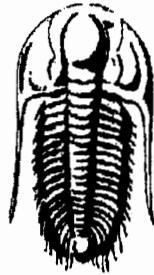


15-195-22412



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil CO**
Hays KS

ATTN: Ron Nelson

24 13 22 Trego KS

Windholz 1-24

Start Date: 2006.11.29 @ 15:23:58

End Date: 2006.11.29 @ 21:22:28

Job Ticket #: 26882 DST #: 1

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing-Nelson Oil CO

Hays KS

ATTN: Ron Nelson

Windholz 1-24

24 13 22 Trego KS

Job Ticket: 26882

DST#: 1

Test Start: 2006.11.29 @ 15:23:58

GENERAL INFORMATION:

Formation: LKC

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:22:28

Time Test Ended: 21:22:28

Interval: 3744.00 ft (KB) To 3769.00 ft (KB) (TVD)

Total Depth: 3769.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 28

Reference Elevations: 2321.00 ft (KB)

2314.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6753

Inside

Press@RunDepth: 41.20 psig @ 3746.01 ft (KB)

Start Date: 2006.11.29

End Date:

2006.11.29

Start Time: 15:24:03

End Time:

21:22:27

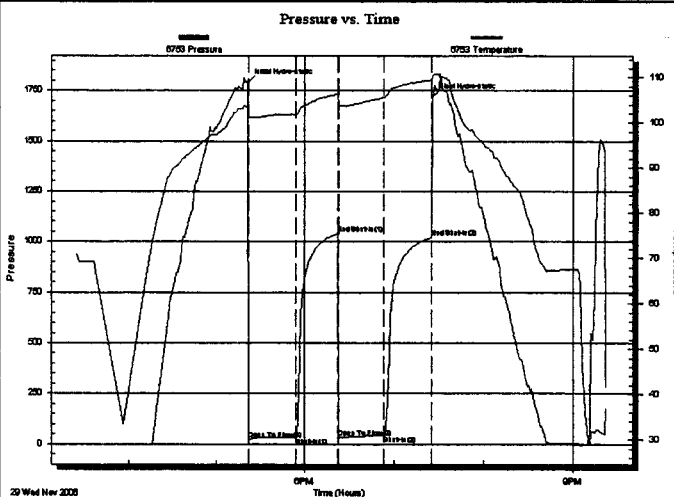
Capacity: 7000.00 psig

Last Calib.: 2006.11.29

Time On Btm: 2006.11.29 @ 17:21:58

Time Off Btm: 2006.11.29 @ 19:24:58

TEST COMMENT: IF Blow built to 1/2 "
ISI Dead
FF Weak surface blow
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.24	103.58	Initial Hydro-static
1	23.54	101.18	Open To Flow (1)
32	32.06	101.78	Shut-In (1)
60	1040.15	106.31	End Shut-In (1)
61	32.75	104.21	Open To Flow (2)
91	41.20	105.59	Shut-In (2)
123	1020.59	109.37	End Shut-In (2)
123	1717.87	110.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Oil spotted MCSW 20%M 80%SW	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil CO

Windholz 1-24

Hays KS

24 13 22 Trego KS

Job Ticket: 26882

DST#: 1

ATTN: Ron Nelson

Test Start: 2006.11.29 @ 15:23:58

Tool Information

Drill Pipe:	Length: 3733.00 ft	Diameter: 3.80 inches	Volume: 52.36 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	44000.00 lb
		Total Volume:	52.36 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3744.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	25.02 ft				
Tool Length:	46.02 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	1.00			3724.00	
Shut In Tool	5.00			3729.00	
Hydraulic tool	5.00			3734.00	
Packer	5.00			3739.00	21.00 Bottom Of Top Packer
Packer	5.00			3744.00	
Stubb	1.00			3745.00	
Perforations	1.00			3746.00	
Recorder	0.01	6753	Inside	3746.01	
Blank Spacing	20.00			3766.01	
Recorder	0.01	13534	Outside	3766.02	
Bullnose	3.00			3769.02	25.02 Bottom Packers & Anchor

Total Tool Length: 46.02



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil CO

Windholz 1-24

Hays KS

24 13 22 Trego KS

Job Ticket: 26882

DST#: 1

ATTN: Ron Nelson

Test Start: 2006.11.29 @ 15:23:58

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: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Oil spotted MCSW 20%M 80%SW	0.210

Total Length: 15.00 ft

Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

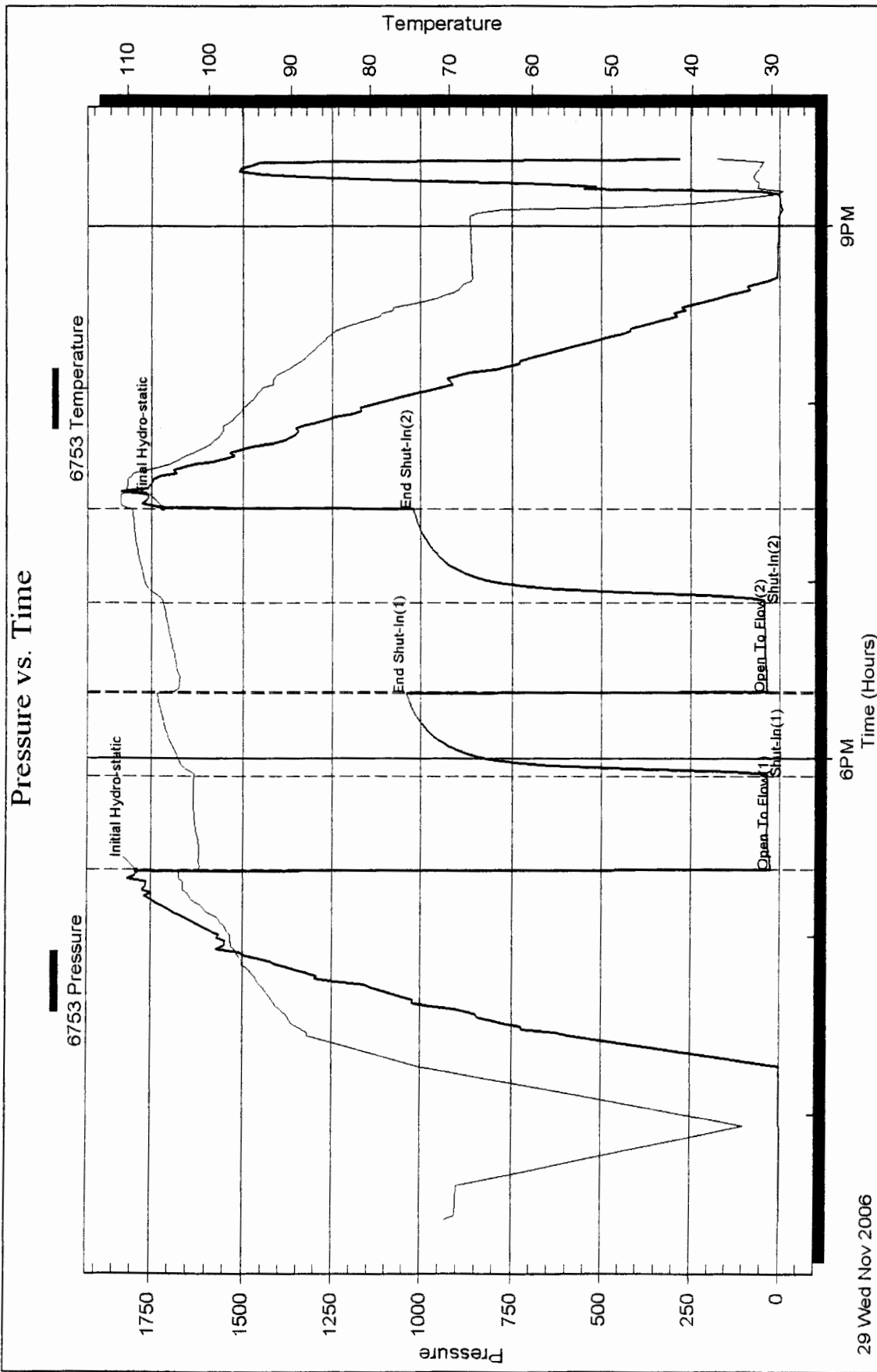
Serial #:

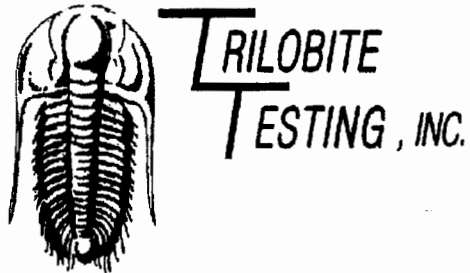
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil CO**
Hays KS

ATTN: Ron Nelson

24 13 22 Trego KS

Windholz 1-24

Start Date: 2006.11.30 @ 21:56:15

End Date: 2006.12.01 @ 03:41:15

Job Ticket #: 26883 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

Downing-Nelson Oil CO

Hays KS

ATTN: Ron Nelson

Windholz 1-24

24 13 22 Trego KS

Job Ticket: 26883

DST#: 2

Test Start: 2006.11.30 @ 21:56:15

GENERAL INFORMATION:

Formation: Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:55:15

Time Test Ended: 03:41:15

Test Type: Conventional Bottom Hole

Tester: Michael Armbrister

Unit No: 28

Interval: 4063.00 ft (KB) To 4109.00 ft (KB) (TVD)

Total Depth: 4109.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2321.00 ft (KB)

2314.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 6753

Inside

Press@RunDepth: 22.04 psig @ 4069.01 ft (KB)

Start Date: 2006.11.30

End Date:

2006.12.01

Start Time: 21:56:20

End Time:

03:41:14

Capacity: 7000.00 psig

Last Calib.: 2006.12.01

Time On Btm: 2006.11.30 @ 23:54:45

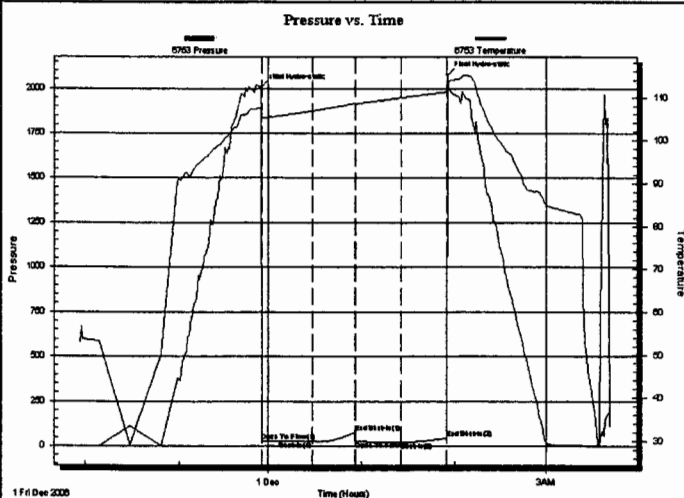
Time Off Btm: 2006.12.01 @ 01:55:15

TEST COMMENT: IF Surface blow died 15 m

ISI Dead

FF Dead

FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2005.85	107.48	Initial Hydro-static
1	28.48	105.11	Open To Flow (1)
33	24.39	106.82	Shut-In (1)
61	74.19	108.52	End Shut-In (1)
62	26.39	108.42	Open To Flow (2)
91	22.04	109.88	Shut-In (2)
120	44.01	111.23	End Shut-In (2)
121	2074.82	113.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Drilling Mud	0.07

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil CO

Windholz 1-24

Hays KS

24 13 22 Trego KS

Job Ticket: 26883

DST#: 2

ATTN: Ron Nelson

Test Start: 2006.11.30 @ 21:56:15

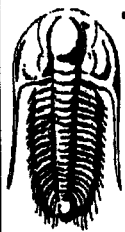
Tool Information

Drill Pipe:	Length: 4072.00 ft	Diameter: 3.80 inches	Volume: 57.12 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	46000.00 lb
			Total Volume: 57.12 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	4063.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.02 ft				
Tool Length:	67.02 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			4043.00	
Shut In Tool	5.00			4048.00	
Hydraulic tool	5.00			4053.00	
Packer	5.00			4058.00	21.00 Bottom Of Top Packer
Packer	5.00			4063.00	
Stubb	1.00			4064.00	
Perforations	5.00			4069.00	
Recorder	0.01	6753	Inside	4069.01	
Change Over Sub	1.00			4070.01	
Drill Pipe	30.00			4100.01	
Change Over Sub	1.00			4101.01	
Perforations	5.00			4106.01	
Recorder	0.01	13534	Outside	4106.02	
Bullnose	3.00			4109.02	46.02 Bottom Packers & Anchor

Total Tool Length: 67.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil CO

Windholz 1-24

Hays KS

24 13 22 Trego KS

Job Ticket: 26883

DST#: 2

ATTN: Ron Nelson

Test Start: 2006.11.30 @ 21:56:15

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:

ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Drilling Mud	0.070

Total Length: 5.00 ft

Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

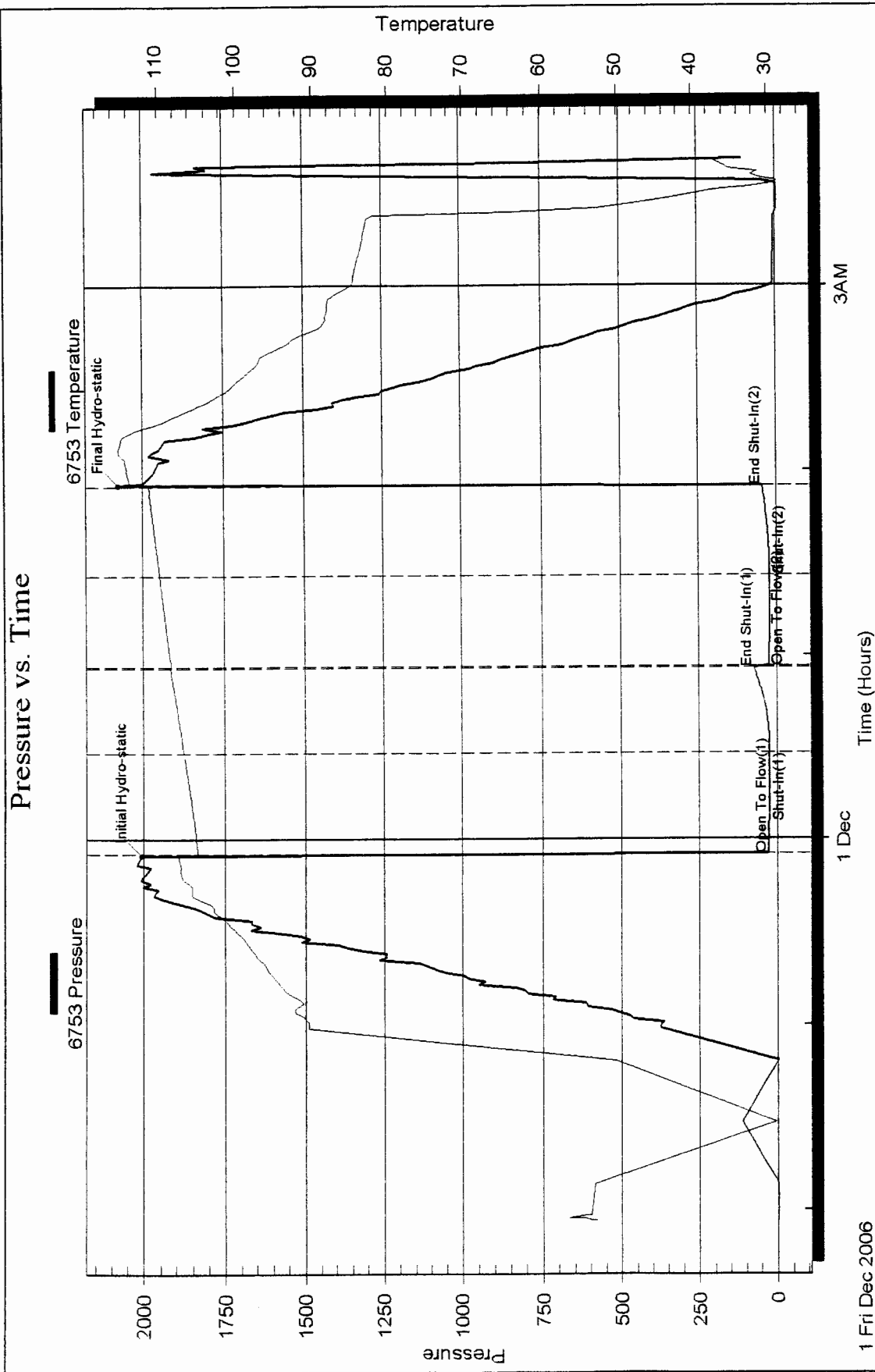


CHART PAGE

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

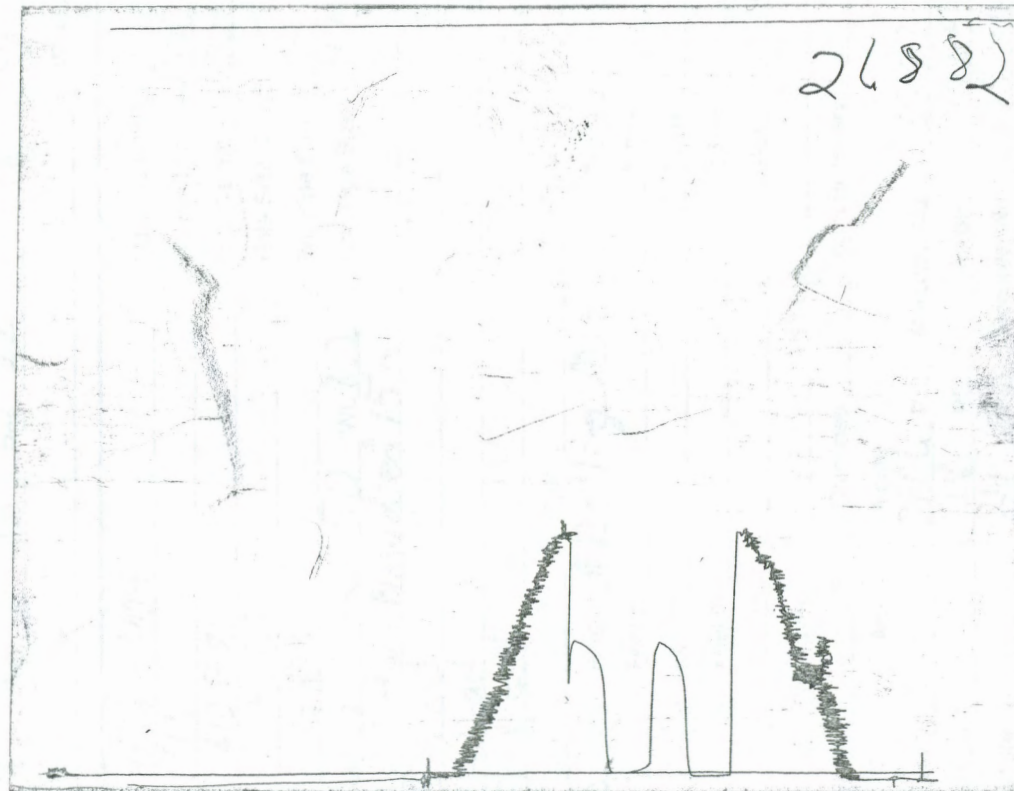


CHART PAGE

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

