

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Berexco**

PO Box 20380
Wichita KS 67206

ATTN: Pete Wilson

³³
~~19-31~~ 21W Clark KS

KGSDRL

Mcminimy # 4 - 19

Start Date: 2006.12.31 @ 23:49:49

End Date: 2007.01.01 @ 08:33:04

Job Ticket #: 27114

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

Berexco

PO Box 20380
Wichita KS 67206

ATTN: Pete Wilson

Mcminimy # 4 - 19

19 31 21W Clark KS

Job Ticket: 27114

DST#: 1

Test Start: 2006.12.31 @ 23:49:49

GENERAL INFORMATION:

Formation: **Morrow/Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:22:19

Time Test Ended: 08:33:04

Test Type: Conventional Straddle

Tester: Leal Cason

Unit No: 19

Interval: **5302.00 ft (KB) To 5425.00 ft (KB) (TVD)**

Total Depth: 5560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 1923.00 ft (KB)

1910.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6752 Inside

Press@RunDepth: psig @ 5303.00 ft (KB)

Start Date: 2006.12.31

End Date:

2007.01.01

Capacity: 7000.00 psig

Last Calib.: 2007.01.01

Start Time: 23:49:54

End Time:

08:33:04

Time On Btm: 2007.01.01 @ 03:20:49

Time Off Btm: 2007.01.01 @ 03:30:34

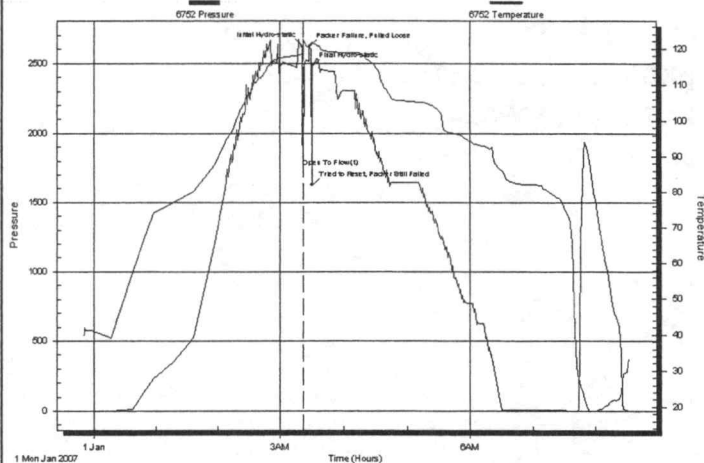
TEST COMMENT: IF Packer Failure

ISI

FF

FSI

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2619.94	118.45	Initial Hydro-static
2	1757.53	122.64	Open To Flow (1)
7	2616.81	120.30	Packer Failure, Pulled Loose
10	1624.19	121.91	Tried to Reset, Packer Still Failed
10	2480.40	121.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
612.00	Drilling Mud	3.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Berexco

Mcminimy # 4 - 19

PO Box 20380
Wichita KS 67206

19 31 21W Clark KS

Job Ticket: 27114

DST#: 1

ATTN: Pete Wilson

Test Start: 2006.12.31 @ 23:49:49

Tool Information

Drill Pipe:	Length: 4671.00 ft	Diameter: 3.80 inches	Volume: 65.52 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 3.25 inches	Volume: - bbl	Weight set on Packer: 50000.00 lb
Drill Collar:	Length: 613.00 ft	Diameter: 2.25 inches	Volume: 3.01 bbl	Weight to Pull Loose: 160000.0 lb
		Total Volume:	- bbl	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 96000.00 lb
Depth to Top Packer:	5302.00 ft			Final 118000.0 lb
Depth to Bottom Packer:	5425.00 ft			
Interval between Packers:	123.00 ft			
Tool Length:	281.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Packer Failure On Initial Flow , Tried To Reset, Still No Packer Seat, Dropped Bar And Pulled Test

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5280.00	
Shut In Tool	5.00			5285.00	
Hydraulic tool	5.00			5290.00	
Safety Joint	3.00			5293.00	
Packer	5.00			5298.00	23.00 Bottom Of Top Packer
Packer	4.00			5302.00	
Stubb	1.00			5303.00	
Recorder	0.00	6752	Inside	5303.00	
Perforations	14.00			5317.00	
Drill Pipe	90.00			5407.00	
Perforations	17.00			5424.00	
Recorder	0.00	6704	Outside	5424.00	
Blank Off Sub	1.00			5425.00	123.00 Tool Interval
Packer	4.00			5429.00	
Stubb	1.00			5430.00	
Drill Pipe	120.00			5550.00	
Perforations	7.00			5557.00	
Recorder	0.00	13255	Below	5557.00	
Bullnose	3.00			5560.00	135.00 Bottom Packers & Anchor

Total Tool Length: 281.00



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FLUID SUMMARY

Berexco

Mcminimy # 4 - 19

PO Box 20380
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19 31 21W Clark KS

Job Ticket: 27114

DST#: 1

ATTN: Pete Wilson

Test Start: 2006.12.31 @ 23:49:49

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
612.00	Drilling Mud	3.010

Total Length: 612.00 ft

Total Volume: 3.010 bbl

Num Fluid Samples: 0

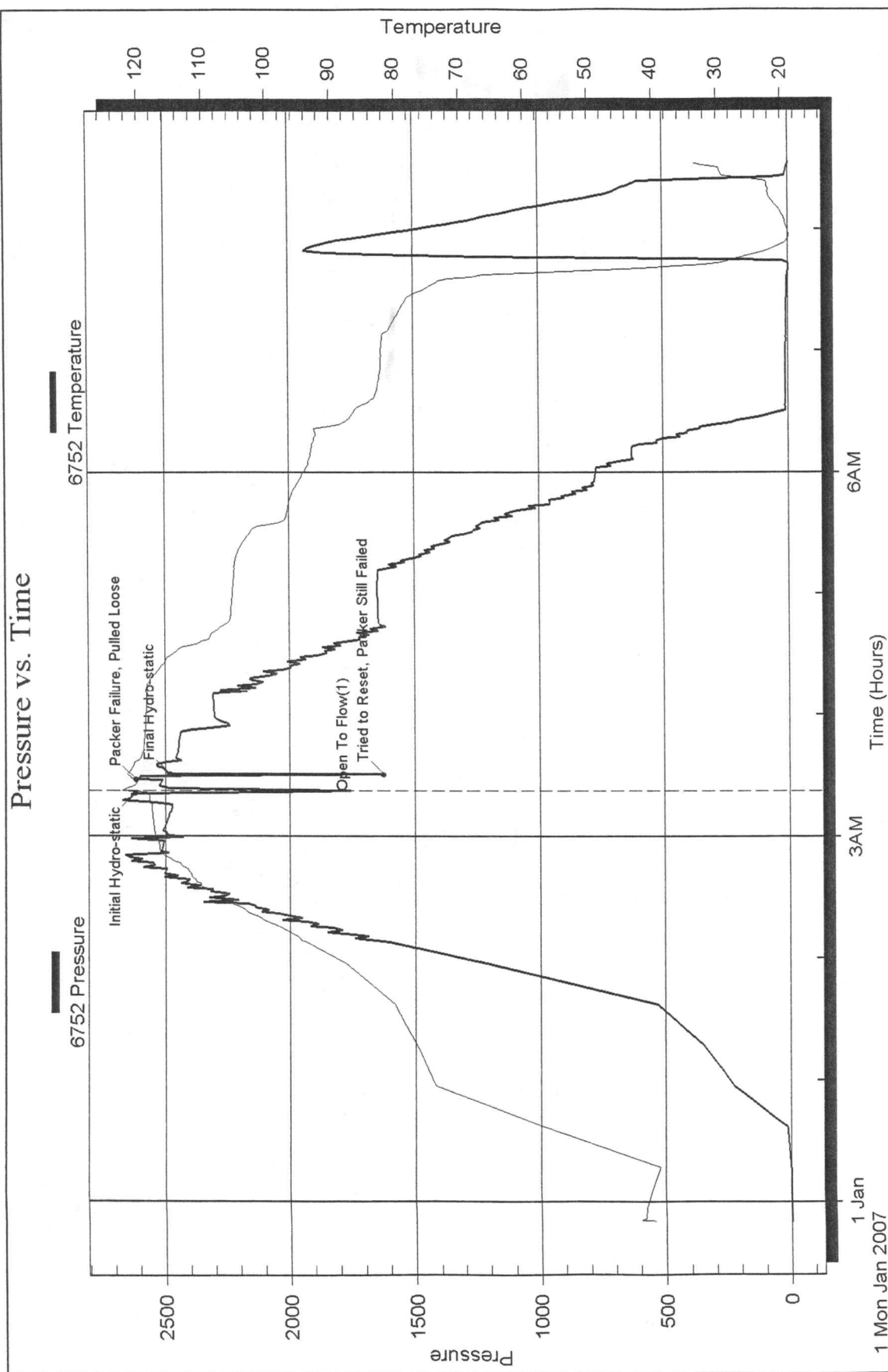
Num Gas Bombs: 0

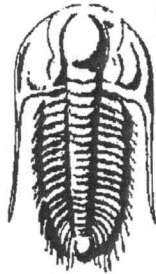
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





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³³
~~19-31~~ 21W Clark KS

KGS DRL

Mcminimy # 4 - 19

Start Date: 2007.01.01 @ 21:31:47

End Date: 2007.01.02 @ 09:38:47

Job Ticket #: 27115

DST #: 2

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DRILL STEM TEST REPORT

Berexco

PO Box 20380
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ATTN: Pete Wilson

Mcminimy # 4 - 19

19 31 21W Clark KS

Job Ticket: 27115

DST#: 2

Test Start: 2007.01.01 @ 21:31:47

GENERAL INFORMATION:

Formation: **Morrow / Chester**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:15:47

Time Test Ended: 09:38:47

Interval: **5328.00 ft (KB) To 5426.00 ft (KB) (TVD)**

Total Depth: 5560.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Test Type: Conventional Straddle

Tester: Leal Cason

Unit No: 19

Reference Elevations: 1923.00 ft (KB)

1910.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 6752

Inside

Press@RunDepth: 132.42 psig @ 5329.00 ft (KB)

Start Date: 2007.01.01

End Date:

2007.01.02

Capacity: 7000.00 psig

Last Calib.: 2007.01.02

Start Time: 21:31:52

End Time:

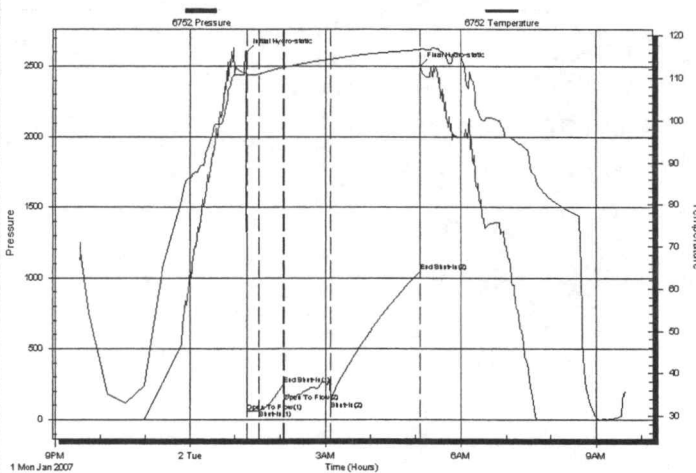
09:38:47

Time On Btm: 2007.01.02 @ 01:15:17

Time Off Btm: 2007.01.02 @ 05:06:32

TEST COMMENT: IF Fair Blow 8 inches
ISI Bled Off Blow back Built to 3 inches
FF Strong Blow BOB in 12 minutes
FSI Bled Off No Blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2598.10	111.25	Initial Hydro-static
1	53.47	110.87	Open To Flow (1)
17	66.05	110.95	Shut-In (1)
49	245.29	112.56	End Shut-In (1)
50	127.11	112.53	Open To Flow (2)
111	132.42	114.41	Shut-In (2)
231	1044.68	116.68	End Shut-In (2)
232	2502.34	116.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	GSY WCM 2%G 12%W 86%M	0.47
0.00	GIP 734 Feet	0.00

Gas Rates

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

Berexco

PO Box 20380
Wichita KS 67206

ATTN: Pete Wilson

Mcminimy # 4 - 19

19 31 21W Clark KS

Job Ticket: 27115

DST#: 2

Test Start: 2007.01.01 @ 21:31:47

Tool Information

Drill Pipe:	Length: 4699.00 ft	Diameter: 3.80 inches	Volume: 65.91 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 3.25 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 613.00 ft	Diameter: 2.25 inches	Volume: 3.01 bbl	Weight to Pull Loose:	102000.0 lb
		Total Volume:	- bbl	Tool Chased	ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	98000.00 lb
Depth to Top Packer:	5328.00 ft			Final	102000.0 lb
Depth to Bottom Packer:	5422.00 ft				
Interval between Packers:	94.00 ft				
Tool Length:	255.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			5306.00	
Shut In Tool	5.00			5311.00	
Hydraulic tool	5.00			5316.00	
Safety Joint	3.00			5319.00	
Packer	5.00			5324.00	23.00 Bottom Of Top Packer
Packer	4.00			5328.00	
Stubb	1.00			5329.00	
Recorder	0.00	6752	Inside	5329.00	
Perforations	15.00			5344.00	
Drill Pipe	62.00			5406.00	
Perforations	15.00			5421.00	
Recorder	0.00	6704	Outside	5421.00	
Blank Off Sub	1.00			5422.00	94.00 Tool Interval
Packer	4.00			5426.00	
Stubb	1.00			5427.00	
Drill Pipe	124.00			5551.00	
Perforations	6.00			5557.00	
Recorder	0.00	13255	Below	5557.00	
Bullnose	3.00			5560.00	138.00 Bottom Packers & Anchor

Total Tool Length: 255.00



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Job Ticket: 27115

DST#: 2

ATTN: Pete Wilson

Test Start: 2007.01.01 @ 21:31:47

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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 14.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 12000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	GSY WCM 2%G 12%W 86%M	0.467
0.00	GIP 734 Feet	0.000

Total Length: 95.00 ft

Total Volume: 0.467 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

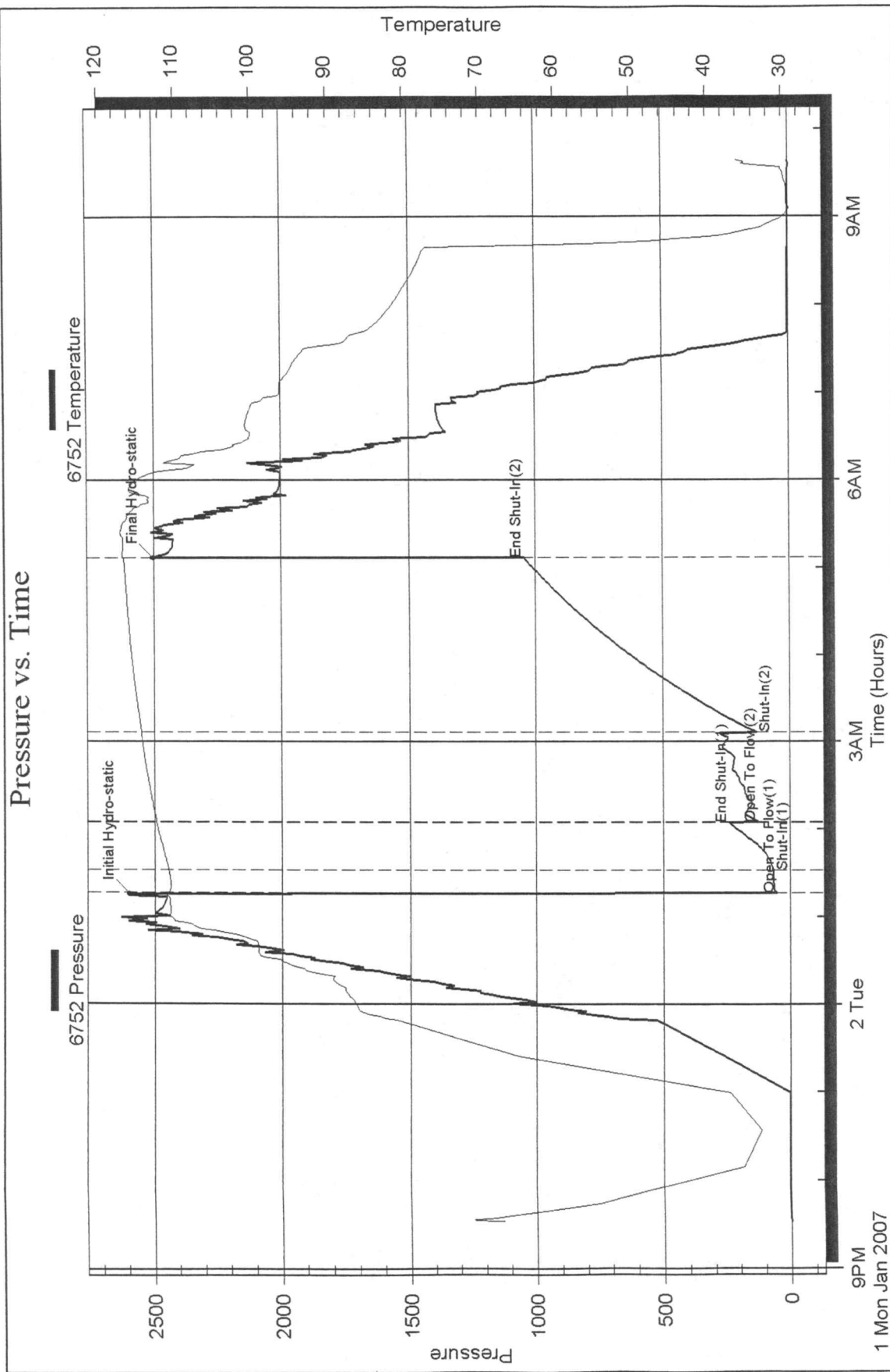


CHART PAGE

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

Ticket # 27114

*#6704
(TOP)*

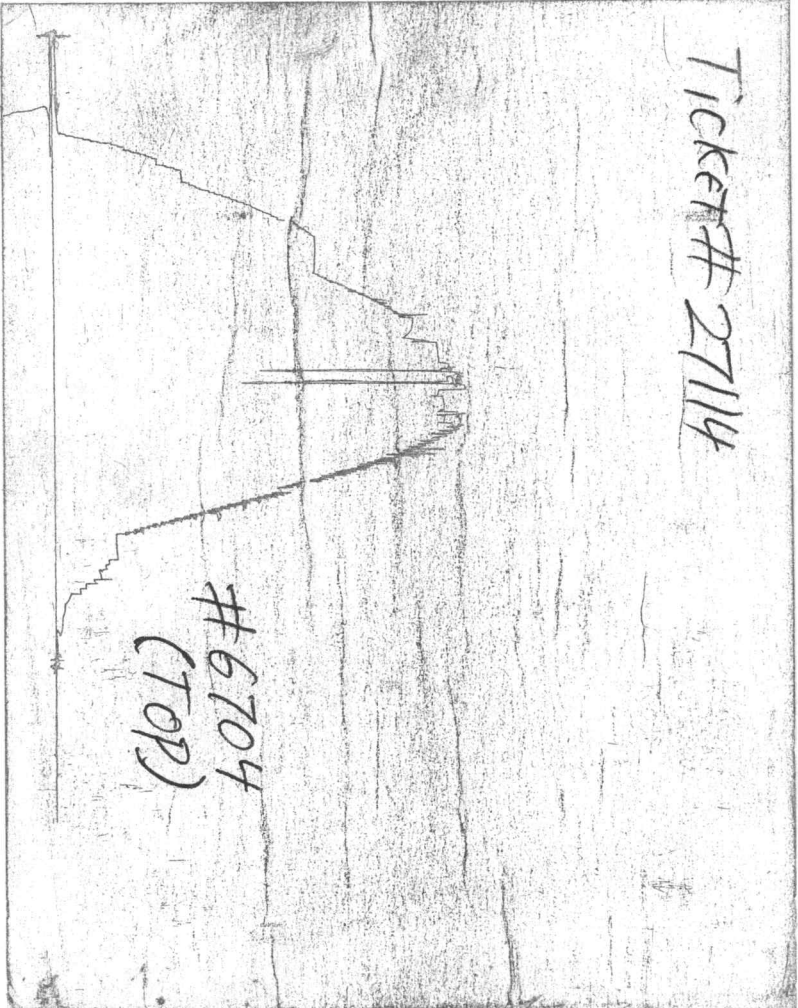


CHART PAGE

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

Ticket # 27114

#13255
(bottom)



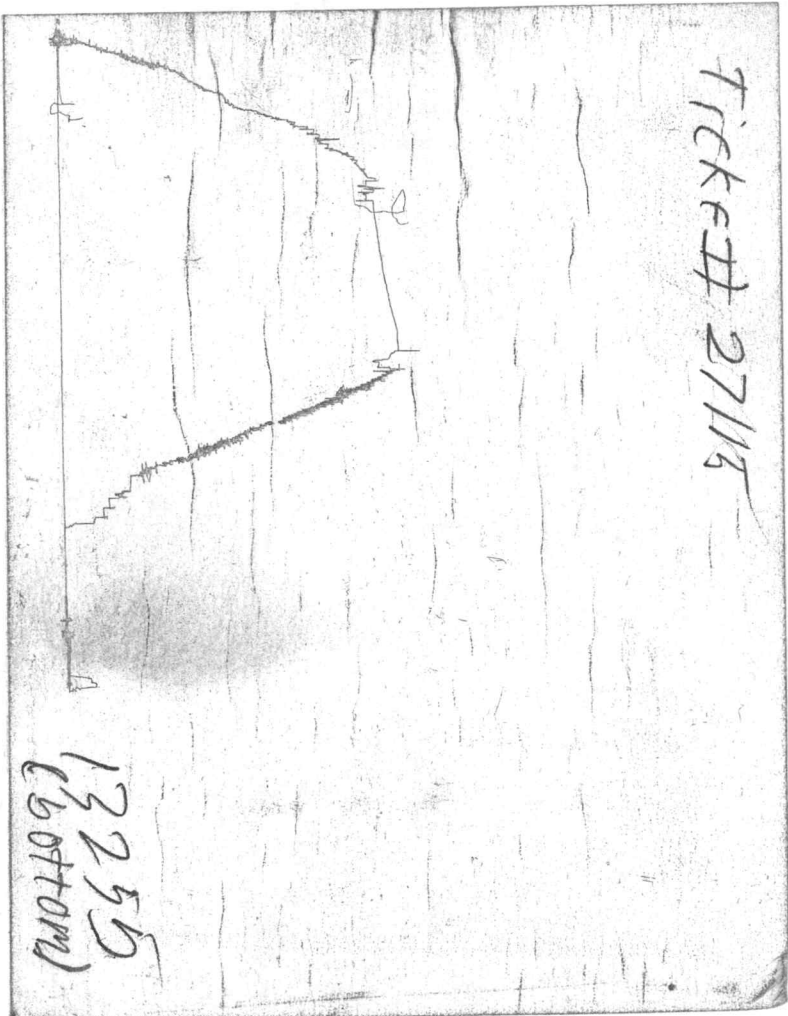
CHART PAGE

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



CHART PAGE

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



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