

DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

Box 641
Hays KS 67601

ATTN: Ken Vehige

22 11 19 Ellis KS

Vine E # 7

Start Date: 2006.10.28 @ 11:45:08

End Date: 2006.10.28 @ 18:15:08

Job Ticket #: 25208 DST #: 1

15-051-25580

52 N2 NE

990 FNL 1320 FEL

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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Black Diamond Oil

Vine E # 7

22 11 19 Ellis KS

DST # 1

Toronto/A-B

2006.10.28



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil

Vine E # 7

Box 641
Hays KS 67601

22 11 19 Ellis KS

Job Ticket: 25208

DST#: 1

ATTN: Ken Vehige

Test Start: 2006.10.28 @ 11:45:08

GENERAL INFORMATION:

Formation: **Toronto/A-B**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 13:17:58

Time Test Ended: 18:15:08

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3110.00 ft (KB) To 3210.00 ft (KB) (TVD)

Total Depth: 3210.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1943.00 ft (KB)

1935.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6741 Inside

Press@RunDepth: 26.85 psig @ 3113.00 ft (KB)

Start Date: 2006.10.28

End Date:

2006.10.28

Capacity: 7000.00 psig

Last Calib.: 2006.10.28

Start Time: 11:45:10

End Time:

18:15:08

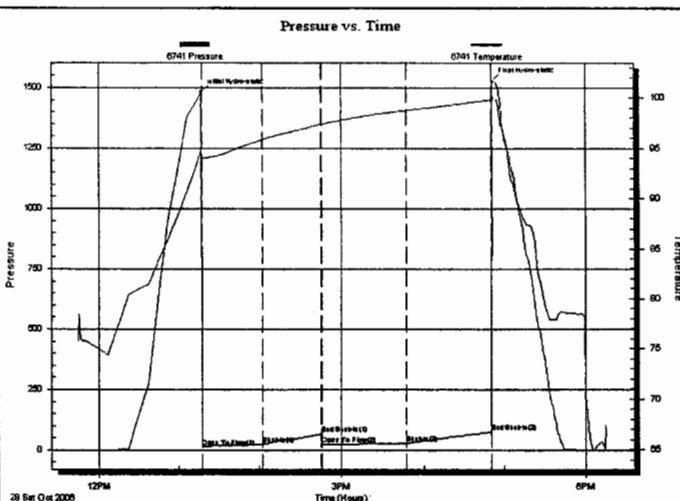
Time On Btm: 2006.10.28 @ 13:17:18

Time Off Btm: 2006.10.28 @ 16:50:38

TEST COMMENT: IF Weak building to 2 1/2 "

FF Weak building to 1" then decreasing to weak surface blow in 60 min

Times 45 45 60 60



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1481.29	94.78	Initial Hydro-static
1	13.14	94.43	Open To Flow (1)
46	22.84	95.83	Shut-In (1)
89	66.51	97.36	End Shut-In (1)
90	22.20	97.35	Open To Flow (2)
150	26.85	98.74	Shut-In (2)
214	75.52	99.81	End Shut-In (2)
214	1528.39	100.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	CO	0.42
15.00	MCO 70%O 30%M	0.21
0.00	124 GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Black Diamond Oil

Vine E # 7

Box 641
Hays KS 67601

22 11 19 Ellis KS

Job Ticket: 25208

DST#: 1

ATTN: Ken Vehige

Test Start: 2006.10.28 @ 11:45:08

Tool Information

Drill Pipe:	Length: 3093.00 ft	Diameter: 3.80 inches	Volume: 43.39 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:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	80000.00 lb
		Total Volume:	43.39 bbl	Tool Chased	10.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3110.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	100.00 ft				
Tool Length:	121.00 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	1.00			3090.00	
Shut In Tool	5.00			3095.00	
Hydraulic tool	5.00			3100.00	
Packer	5.00			3105.00	21.00 Bottom Of Top Packer
Packer	5.00			3110.00	
Stubb	1.00			3111.00	
Perforations	1.00			3112.00	
Change Over Sub	1.00			3113.00	
Recorder	0.00	6741	Inside	3113.00	
Drill Pipe	63.00			3176.00	
Change Over Sub	1.00			3177.00	
Recorder	0.00	13254	Outside	3177.00	
Perforations	30.00			3207.00	
Bullnose	3.00			3210.00	100.00 Bottom Packers & Anchor

Total Tool Length: 121.00

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FLUID SUMMARY

Black Diamond Oil

Vine E # 7

Box 641
Hays KS 67601

22 11 19 Ellis KS

Job Ticket: 25208 DST#: 1

ATTN: Ken Vehige

Test Start: 2006.10.28 @ 11:45:08

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 4000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	CO	0.421
15.00	MCO 70%O 30%M	0.210
0.00	124 GIP	0.000

Total Length: 45.00 ft Total Volume: 0.631 bbl

Num Fluid Samples: 0

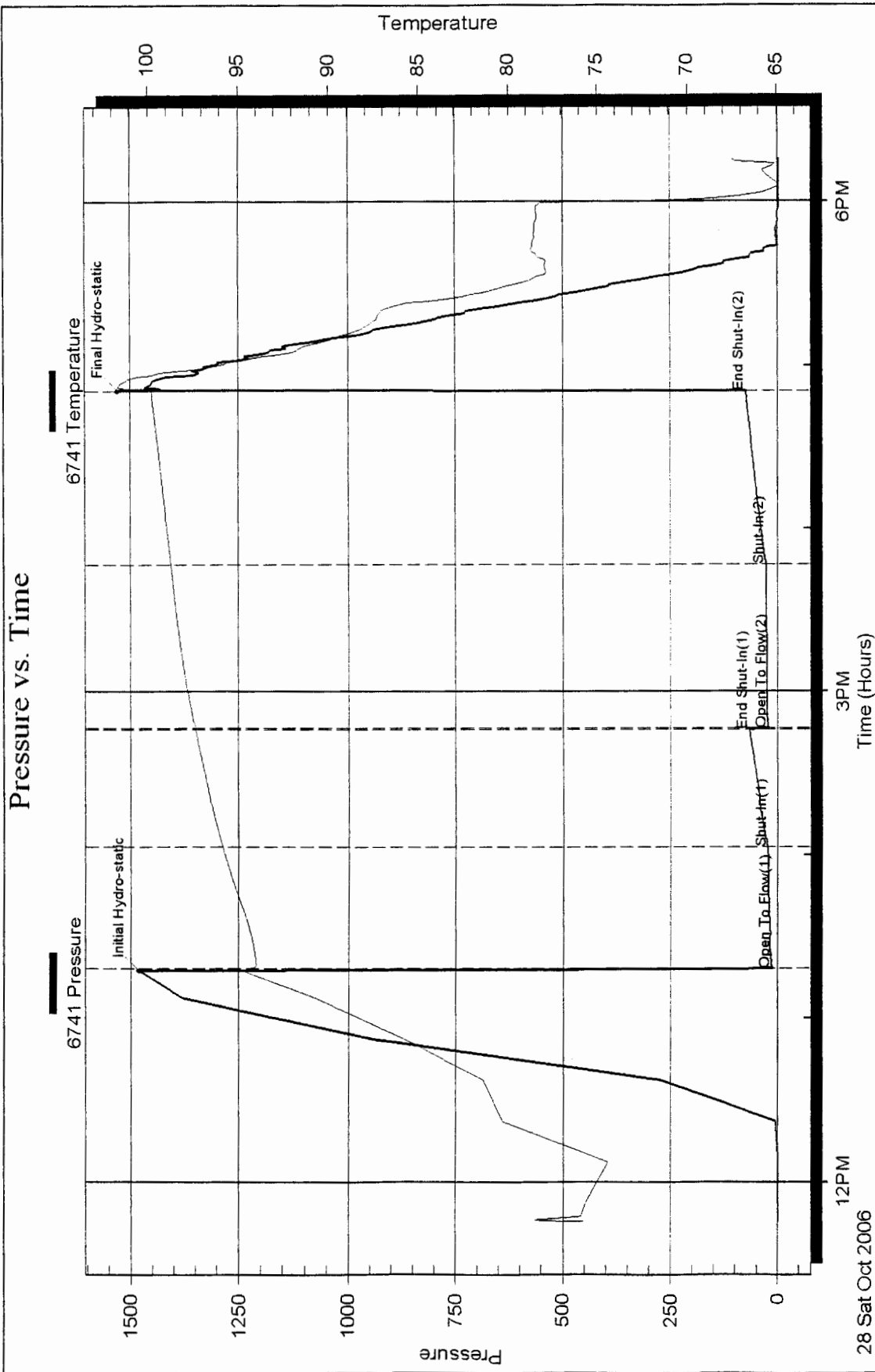
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

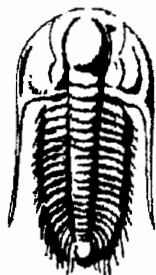
Recovery Comments:



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DRILL STEM TEST REPORT

Prepared For: **Black Diamond Oil**

Box 641
Hays KS 67601

ATTN: Ken Vehige

22 11 19 Ellis KS

Vine E # 7

Start Date: 2006.10.29 @ 01:48:23

End Date: 2006.10.29 @ 04:54:23

Job Ticket #: 25209 DST #: 2

Trilobite Testing, Inc
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Black Diamond Oil

Vine E # 7

22 11 19 Ellis KS

DST # 2

D-E-F-G

2006.10.29



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Black Diamond Oil

Vine E # 7

Box 641
Hays KS 67601

22 11 19 Ellis KS

Job Ticket: 25209

DST#: 2

ATTN: Ken Vehige

Test Start: 2006.10.29 @ 01:48:23

GENERAL INFORMATION:

Formation: **D-E-F-G**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:00:00

Time Test Ended: 04:54:23

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3200.00 ft (KB) To 3260.00 ft (KB) (TVD)**

Total Depth: 3260.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1943.00 ft (KB)

1935.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6741 Inside

Press@RunDepth: psig @ 3203.00 ft (KB)

Start Date: 2006.10.29

End Date:

2006.10.29

Capacity: 7000.00 psig

Last Calib.: 2006.10.29

Start Time: 01:48:25

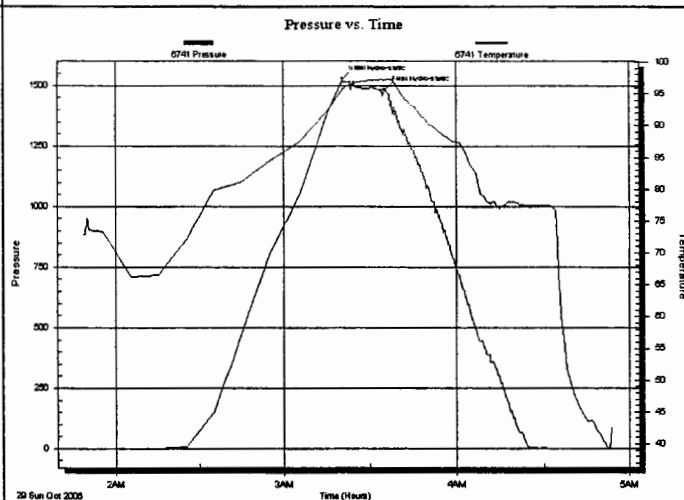
End Time:

04:54:23

Time On Btm: 2006.10.29 @ 03:20:33

Time Off Btm: 2006.10.29 @ 03:35:33

TEST COMMENT: Dakota started flowing when ready to set tool



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1527.50	95.75	Initial Hydro-static
15	1483.02	97.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

Gas Rates

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

Black Diamond Oil

Vine E # 7

Box 641
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22 11 19 Ellis KS

Job Ticket: 25209

DST#: 2

ATTN: Ken Vehige

Test Start: 2006.10.29 @ 01:48:23

Tool Information

Drill Pipe: Length: 3186.00 ft Diameter: 3.80 inches Volume: 44.69 bbl
Heavy Wt. Pipe: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Drill Collar: Length: 0.00 ft Diameter: 0.00 inches Volume: 0.00 bbl
Total Volume: 44.69 bbl
Drill Pipe Above KB: 7.00 ft
Depth to Top Packer: 3200.00 ft
Depth to Bottom Packer: ft
Interval between Packers: 60.00 ft
Tool Length: 81.00 ft
Number of Packers: 2 Diameter: 6.75 inches

Tool Weight: 2000.00 lb
Weight set on Packer: 20000.00 lb
Weight to Pull Loose: 50000.00 lb
Tool Chased 8.00 ft
String Weight: Initial 50000.00 lb
Final 50000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3180.00	
Shut In Tool	5.00			3185.00	
Hydraulic tool	5.00			3190.00	
Packer	5.00			3195.00	21.00 Bottom Of Top Packer
Packer	5.00			3200.00	
Stubb	1.00			3201.00	
Perforations	1.00			3202.00	
Change Over Sub	1.00			3203.00	
Recorder	0.00	6741	Inside	3203.00	
Drill Pipe	31.00			3234.00	
Change Over Sub	1.00			3235.00	
Recorder	0.00	13254	Outside	3235.00	
Perforations	22.00			3257.00	
Bullnose	3.00			3260.00	60.00 Bottom Packers & Anchor

Total Tool Length: 81.00

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22 11 19 Ellis KS

Job Ticket: 25209

DST#: 2

ATTN: Ken Vehige

Test Start: 2006.10.29 @ 01:48:23

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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00		0.000

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6741

Inside

Black Diamond Oil

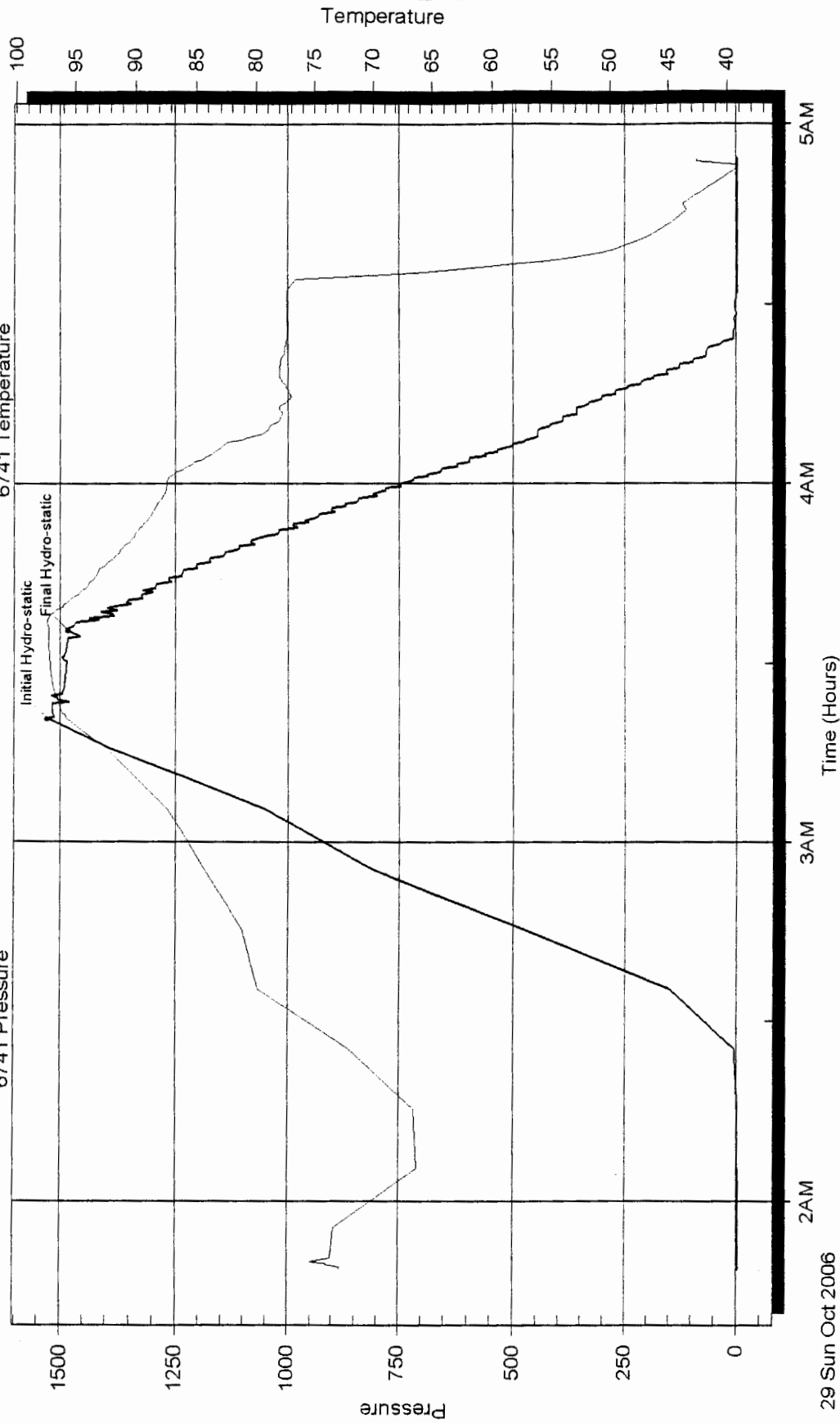
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DST Test Number: 2

Pressure vs. Time

6741 Pressure

6741 Temperature



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