

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil**

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

21 13 12W
21-13-21W Russell KS

Heffel B #1

Start Date: 2007.02.12 @ 23:48:02

End Date: 2007.02.13 @ 06:46:00

Job Ticket #: 27504 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC.

DRILL STEM TEST REPORT

Brungardt Oil

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

Heffell B #1

21 13 21W Russell KS

Job Ticket: 27504

DST#: 1

Test Start: 2007.02.12 @ 23:48:02

GENERAL INFORMATION:

Formation: **LKC "B-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:35:15

Time Test Ended: 06:46:00

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **2788.00 ft (KB) To 2821.00 ft (KB) (TVD)**

Total Depth: 2821.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1611.00 ft (KB)

1607.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6769 Inside

Press@RunDepth: 231.94 psig @ 2793.01 ft (KB)

Start Date: 2007.02.12

End Date:

2007.02.13

Start Time: 23:48:02

End Time:

06:46:00

Capacity: 7000.00 psig

Last Calib.: 2007.02.13

Time On Btm: 2007.02.13 @ 01:35:00

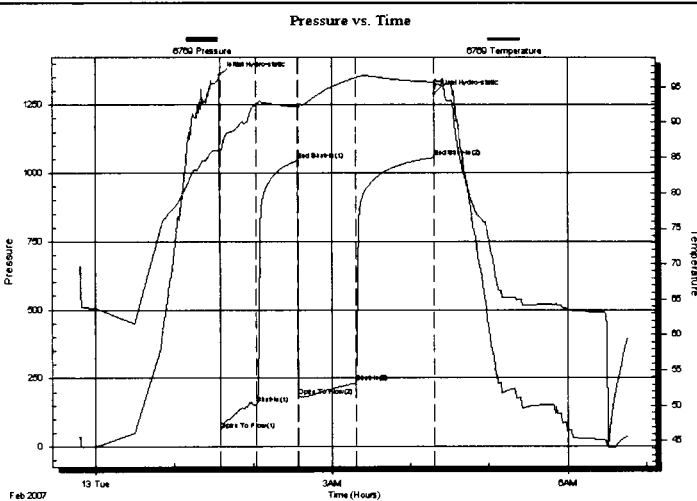
Time Off Btm: 2007.02.13 @ 04:18:45

TEST COMMENT: IFP BOB 3 min.

ISI BOB 4 min.

FFP BOB 3 min.

FSI BOB 3 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1357.80	86.27	Initial Hydro-static
1	59.48	85.88	Open To Flow (1)
28	156.25	92.67	Shut-In (1)
60	1047.41	92.21	End Shut-In (1)
60	185.64	92.00	Open To Flow (2)
104	231.94	96.31	Shut-In (2)
164	1056.41	95.68	End Shut-In (2)
164	1290.34	95.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMW w/scum O 5%G 2%O 75%W 20%M	0.59
60.00	G & WMCO 15%G 65%O 10%W 10%M	0.30
300.00	GMCO 15%G 75%O 10%M	2.99

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil

Heffell B #1

PO Box 871
Russell KS 67665

21 13 21W Russell KS

Job Ticket: 27504

DST#: 1

ATTN: Brad Hutchinson

Test Start: 2007.02.12 @ 23:48:02

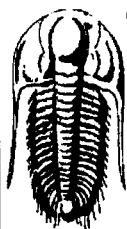
Tool Information

Drill Pipe:	Length:	2485.00 ft	Diameter:	3.80 inches	Volume:	34.86 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	314.00 ft	Diameter:	2.25 inches	Volume:	1.54 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	44000.00 lb
					Total Volume:	36.40 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		31.00 ft					String Weight: Initial	36000.00 lb
Depth to Top Packer:		2788.00 ft					Final	38000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		33.02 ft						
Tool Length:		53.02 ft						
Number of Packers:		2	Diameter:	6.75 inches				

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			2773.00	
Hydraulic tool	5.00			2778.00	
Packer	5.00			2783.00	20.00 Bottom Of Top Packer
Packer	5.00			2788.00	
Stubb	1.00			2789.00	
Perforations	4.00			2793.00	
Recorder	0.01	6769	Inside	2793.01	
Perforations	25.00			2818.01	
Recorder	0.01	13548	Outside	2818.02	
Bullnose	3.00			2821.02	33.02 Bottom Packers & Anchor
Total Tool Length:	53.02				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil

Heffell B #1

PO Box 871
Russell KS 67665

21 13 21W Russell KS

Job Ticket: 27504

DST#: 1

ATTN: Brad Hutchinson

Test Start: 2007.02.12 @ 23:48:02

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:

48000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8700.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GMW w/scum O 5%G 2%O 75%W 20%M	0.590
60.00	G & WMCO 15%G 65%O 10%W 10%M	0.295
300.00	GMCO 15%G 75%O 10%M	2.988

Total Length: 480.00 ft

Total Volume: 3.873 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

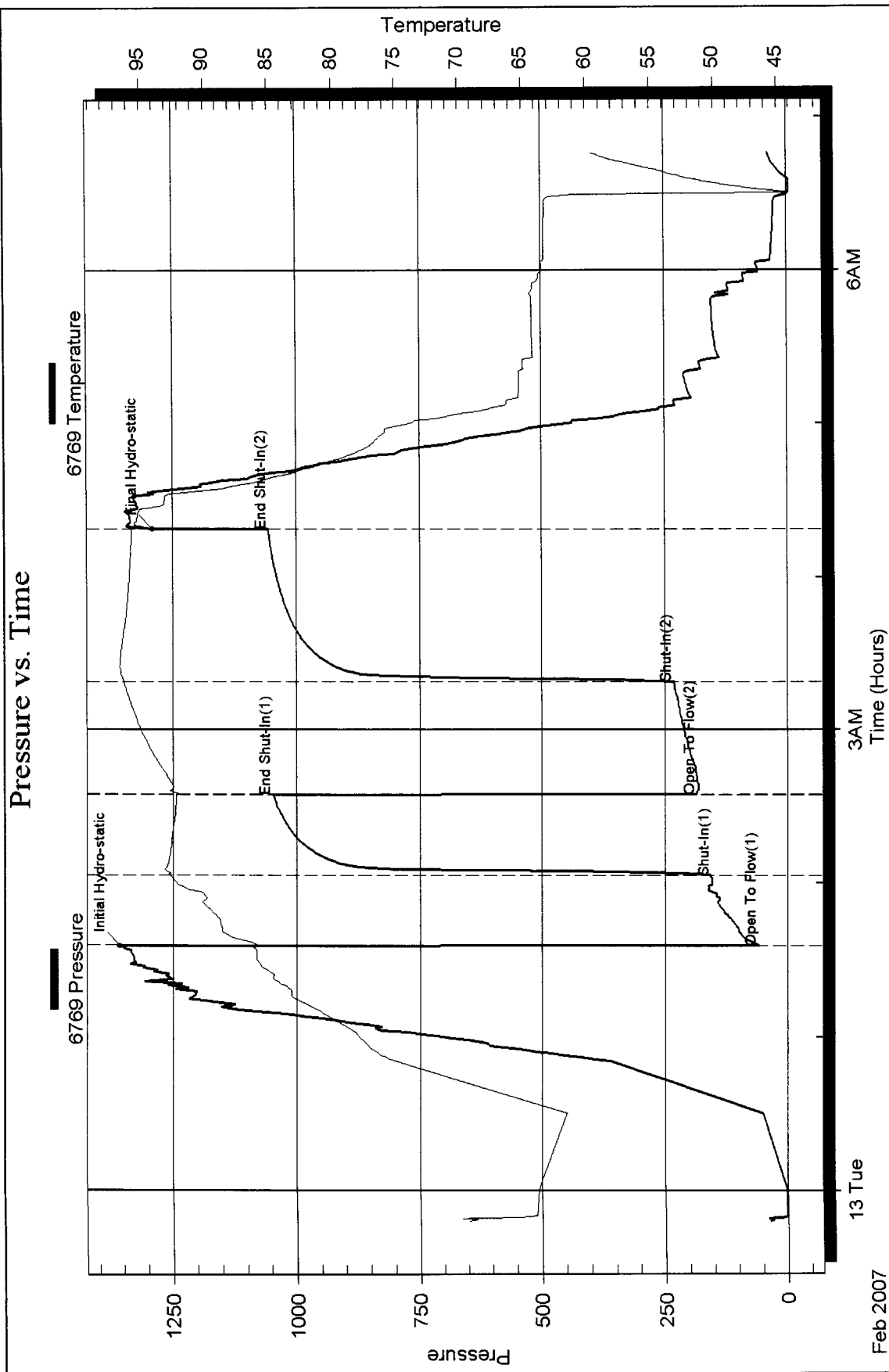
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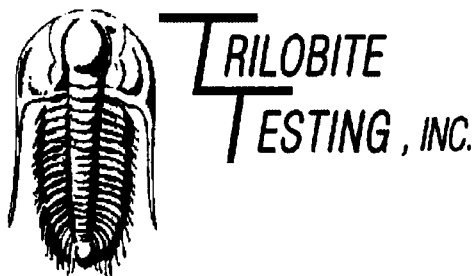
Laboratory Name:

Laboratory Location:

Recovery Comments: 1650' GIP

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil**

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

21 13 12
~~21-13-21W~~ Russell KS

Heffell B #1

Start Date: 2007.02.13 @ 16:28:28

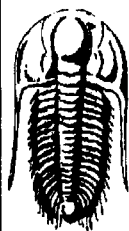
End Date: 2007.02.13 @ 21:40:26

Job Ticket #: 27505 DST #: 2

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DRILL STEM TEST REPORT

Brungardt Oil

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

Heffell B #1

21 13 21W Russell KS

Job Ticket: 27505

DST#: 2

Test Start: 2007.02.13 @ 16:28:28

GENERAL INFORMATION:

Formation: LKC "F-G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:03:11

Time Test Ended: 21:40:26

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: 2825.00 ft (KB) To 2881.00 ft (KB) (TVD)

Total Depth: 2881.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1611.00 ft (KB)

1607.00 ft (CF)

KB to GR/CF: 4.00 ft

Serial #: 6769

Inside

Press@RunDepth: 278.17 psig @ 2831.01 ft (KB)

Start Date: 2007.02.13

End Date:

2007.02.13

Start Time: 16:28:28

End Time:

21:40:26

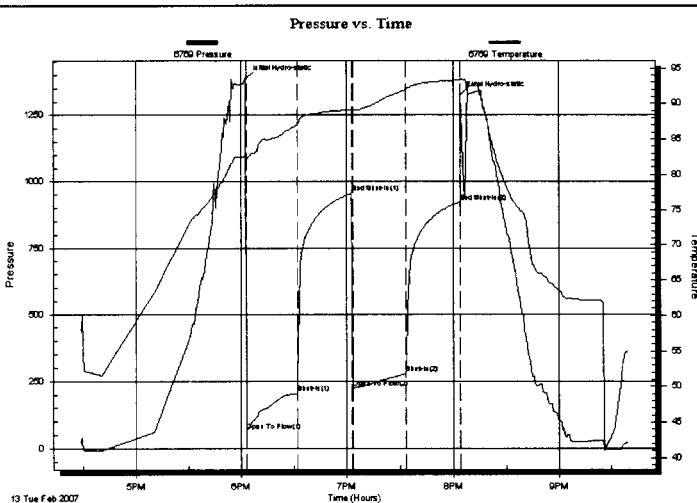
Capacity: 7000.00 psig

Last Calib.: 2007.02.13

Time On Btm: 2007.02.13 @ 18:02:56

Time Off Btm: 2007.02.13 @ 20:03:56

TEST COMMENT: IFP BOB 4 min.
ISI Sur blow back died 9 min.
FFP BOB 4 1/2 min.
FSI 1 " blow back



PRESSURE SUMMARY

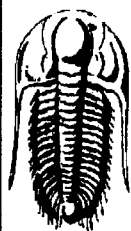
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1383.83	82.54	Initial Hydro-static
1	64.94	82.07	Open To Flow (1)
29	204.04	86.99	Shut-In(1)
61	956.90	89.18	End Shut-In(1)
61	223.68	89.06	Open To Flow(2)
91	278.17	91.99	Shut-In(2)
121	923.52	93.30	End Shut-In(2)
121	1324.92	93.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
185.00	MW w scum O 70%W 30%M	0.91
125.00	WOCM 25%O 15%W 60%M	0.61
125.00	H G & W OCM 15%G 45%O 15%W 25%M	1.72
110.00	HGOCM 5%G 35%O 60%M	1.54

Gas Rates

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

TOOL DIAGRAM

Brungardt Oil

Heffell B #1

PO Box 871
Russell KS 67665

21 13 21W Russell KS

Job Ticket: 27505

DST#: 2

ATTN: Brad Hutchinson

Test Start: 2007.02.13 @ 16:28:28

Tool Information

Drill Pipe:	Length: 2522.00 ft	Diameter: 3.80 inches	Volume: 35.38 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 59000.00 lb
			Total Volume: 36.92 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	2825.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.02 ft			
Tool Length:	76.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			2810.00	
Hydraulic tool	5.00			2815.00	
Packer	5.00			2820.00	20.00 Bottom Of Top Packer
Packer	5.00			2825.00	
Stubb	1.00			2826.00	
Perforations	4.00			2830.00	
Change Over Sub	1.00			2831.00	
Recorder	0.01	6769	Inside	2831.01	
Blank Spacing	31.00			2862.01	
Change Over Sub	1.00			2863.01	
Perforations	15.00			2878.01	
Recorder	0.01	13548	Outside	2878.02	
Bullnose	3.00			2881.02	56.02 Bottom Packers & Anchor

Total Tool Length: 76.02



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Job Ticket: 27505

DST#: 2

ATTN: Brad Hutchinson

Test Start: 2007.02.13 @ 16:28:28

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:

45000 ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
185.00	MW w scum O 70%W 30%M	0.910
125.00	WOCM 25%O 15%W 60%M	0.615
125.00	H G & W OCM 15%G 45%O 15%W 25%M	1.717
110.00	HGOCM 5%G 35%O 60%M	1.543

Total Length: 545.00 ft

Total Volume: 4.785 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 180 ' GIP

Pressure vs. Time

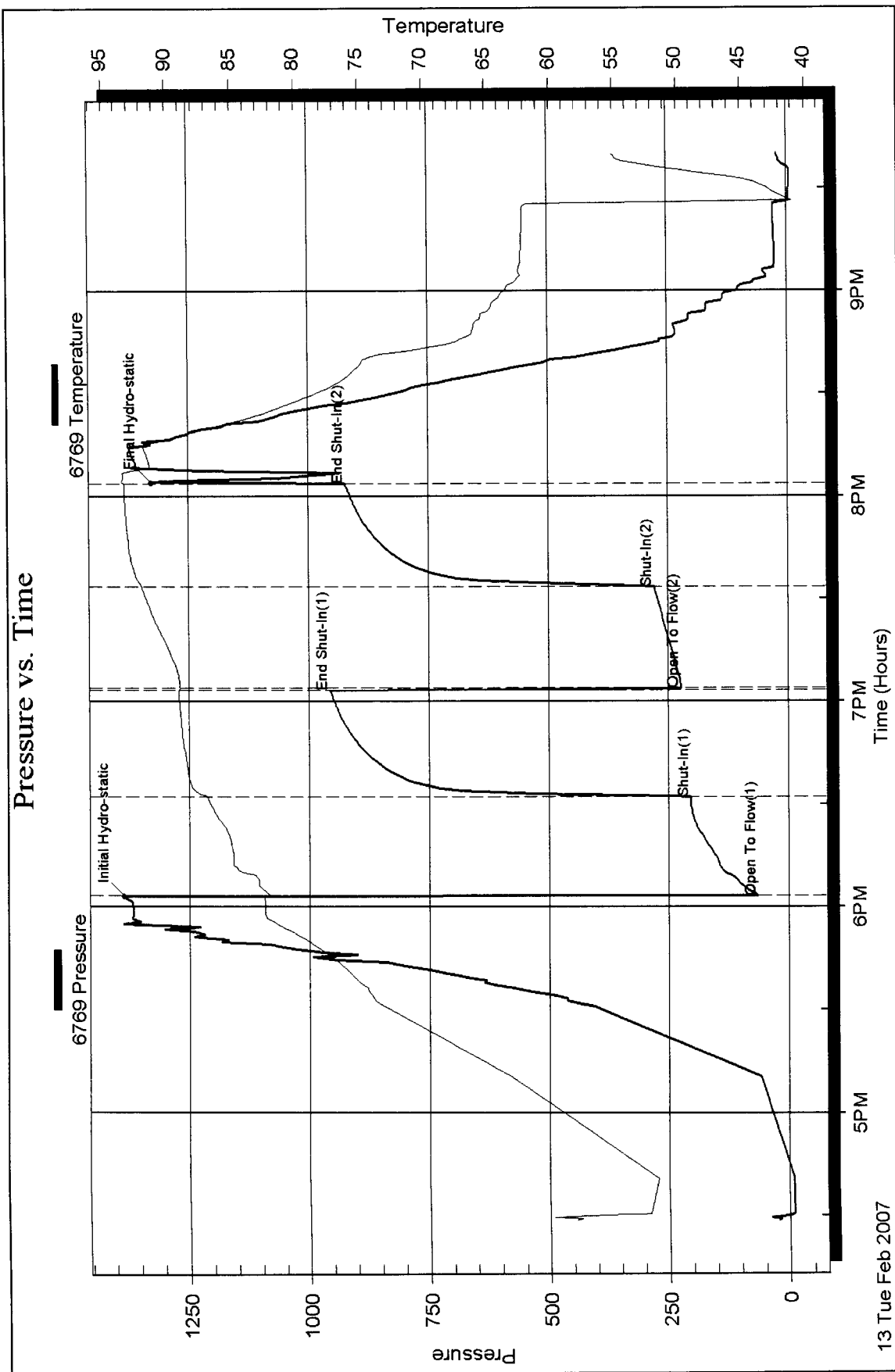


CHART PAGE

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

Brugard +

Hefel B #1

DST #1

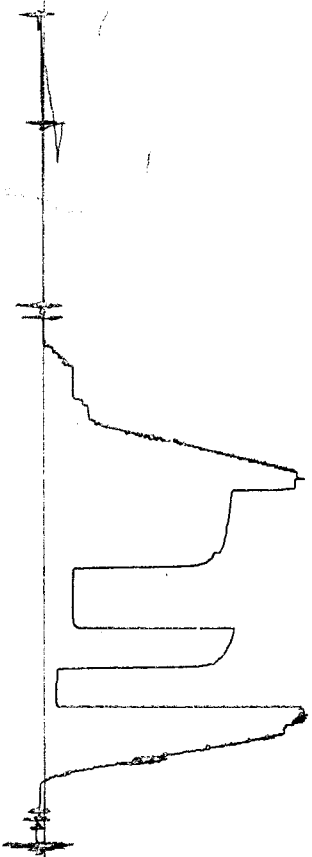


CHART PAGE

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

Brunyardt

Hel B #1

Ost #2

