

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil**

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

34 9 12W Osborne KS

Applegate Pool #1

Start Date: 2007.10.30 @ 10:00:07
End Date: 2007.10.30 @ 17:09:07
Job Ticket #: 30074 DST #: 1

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

DRILL STEM TEST REPORT

Brungardt Oil

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

Applegate Pool #1

34 9 12W Osborne KS

Job Ticket: 30074 **DST#: 1**

Test Start: 2007.10.30 @ 10:00:07

GENERAL INFORMATION:

Formation: **Lkc**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:46:37
Time Test Ended: 17:09:07

Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 42

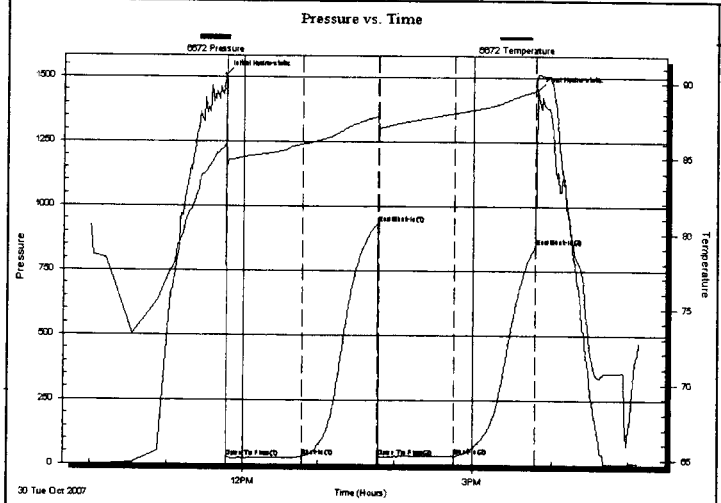
Interval: 2966.00 ft (KB) To 3010.00 ft (KB) (TVD)
Total Depth: 3010.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1753.00 ft (KB)
1748.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6672 **Inside**
Press@RunDepth: 32.49 psig @ 2970.00 ft (KB)
Start Date: 2007.10.30 End Date: 2007.10.30
Start Time: 10:00:12 End Time: 17:09:06

Capacity: 7000.00 psig
Last Calib.: 2007.10.30
Time On Btm: 2007.10.30 @ 11:45:37
Time Off Btm: 2007.10.30 @ 15:48:37

TEST COMMENT: IF Built to 1/4 "
ISI No blow
FF 3/4 "
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1509.04	86.03	Initial Hydro-static
1	27.11	84.44	Open To Flow (1)
62	27.46	85.94	Shut-In(1)
121	934.85	87.78	End Shut-In(1)
122	29.93	87.02	Open To Flow (2)
180	32.49	88.02	Shut-In(2)
242	847.35	89.51	End Shut-In(2)
243	1452.86	90.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	GOWCM 10%O 15%W 75%M	0.07
10.00	GOWCM 15%O 10%W 75%M	0.05
50.00	GIP	0.25

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Brungardt Oil

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

Applegate Pool #1

34 9 12W Osborne KS

Job Ticket: 30074 **DST#: 1**

Test Start: 2007.10.30 @ 10:00:07

Tool Information

Drill Pipe:	Length:	2582.00 ft	Diameter:	0.00	inches	Volume:	0.00 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	378.00 ft	Diameter:	2.25	inches	Volume:	1.86 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	3.82	inches	Volume:	0.00 bbl	Weight to Pull Loose:	40000.00 lb
						Total Volume:	1.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		15.00 ft						String Weight: Initial	36000.00 lb
Depth to Top Packer:		2966.00 ft						Final	36000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		44.00 ft							
Tool Length:		65.00 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			2946.00		
Shut In Tool	5.00			2951.00		
Hydraulic tool	5.00			2956.00		
Packer	5.00			2961.00	21.00	Bottom Of Top Packer
Packer	5.00			2966.00		
Stubb	1.00			2967.00		
Perforations	2.00			2969.00		
Change Over Sub	1.00			2970.00		
Recorder	0.00	6672	Inside	2970.00		
Blank Spacing	32.00			3002.00		
Change Over Sub	1.00			3003.00		
Perforations	4.00			3007.00		
Recorder	0.00	13534	Outside	3007.00		
Bullnose	3.00			3010.00	44.00	Bottom Packers & Anchor
Total Tool Length:	**65.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Brungardt Oil

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

Applegate Pool #1

34 9 12W Osborne KS

Job Ticket: 30074 **DST#: 1**

Test Start: 2007.10.30 @ 10:00:07

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:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

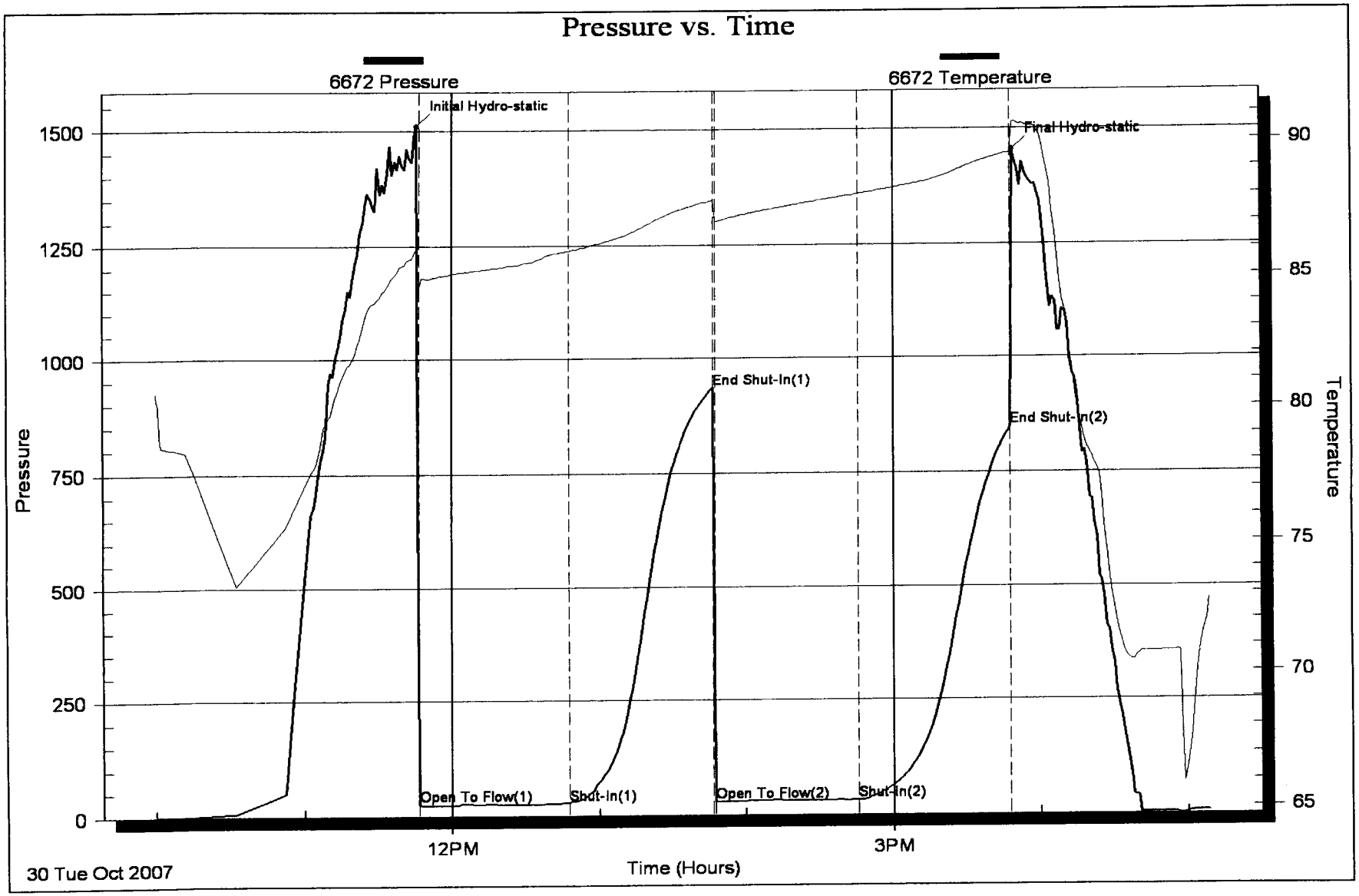
Recovery Information

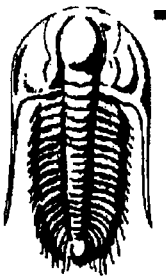
Recovery Table

Length ft	Description	Volume bbl
15.00	GOWCM 10%O 15%W 75%M	0.074
10.00	GOWCM 15%O 10%W 75%M	0.049
50.00	GIP	0.246

Total Length: 75.00 ft Total Volume: 0.369 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
6672 Pressure
6672 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)
1500
1250
1000
750
500
250
0
Pressure
90
85
80
75
70
65
Temperature
12PM
3PM
Time (Hours)
30 Tue Oct 2007



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DRILL STEM TEST REPORT

Prepared For: **Brungardt Oil**

PO Box 871
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34 9 12W Osborne KS

Applegate Pool #1

Start Date: 2007.10.31 @ 01:48:13
End Date: 2007.10.31 @ 07:05:13
Job Ticket #: 30074 DST #: 2

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DRILL STEM TEST REPORT

Brungardt Oil

PO Box 871
Russell KS 67665

ATTN: Brad Hutchinson

Applegate Pool #1

34 9 12W Osborne KS

Job Ticket: 30074 **DST#: 2**

Test Start: 2007.10.31 @ 01:48:13

GENERAL INFORMATION:

Formation: **lkc**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:11:43
Time Test Ended: 07:05:13

Test Type: Conventional Bottom Hole
Tester: Kyle Kinderknecht
Unit No: 42

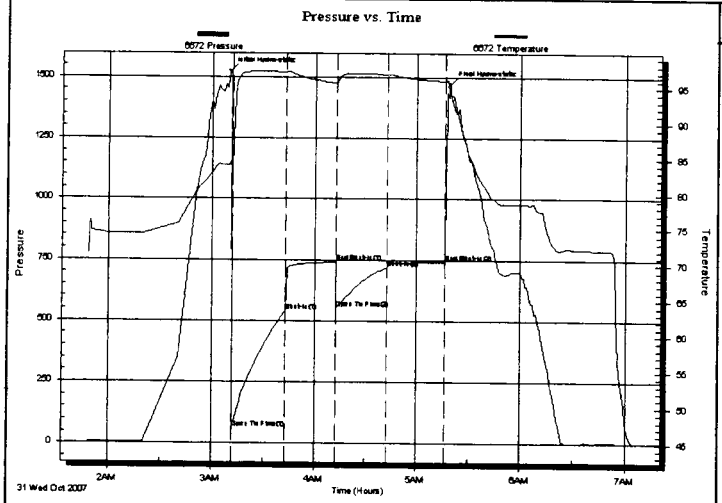
Interval: 3035.00 ft (KB) To 3057.00 ft (KB) (TVD)
Total Depth: 3057.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1753.00 ft (KB)
1748.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6672 **Inside**
Press@RunDepth: 718.09 psig @ 3038.00 ft (KB)
Start Date: 2007.10.31 End Date: 2007.10.31
Start Time: 01:48:18 End Time: 07:05:12

Capacity: 7000.00 psig
Last Calib.: 2007.10.31
Time On Btm: 2007.10.31 @ 03:09:43
Time Off Btm: 2007.10.31 @ 05:19:13

TEST COMMENT: IF Built to 2 1/2 " Died back to 1 "
ISI No blow
FF Built to 2 " Died back to 3/4 "
FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1523.19	84.11	Initial Hydro-static
2	59.19	83.47	Open To Flow (1)
33	540.08	97.17	Shut-In(1)
63	739.07	95.64	End Shut-In(1)
63	552.33	95.51	Open To Flow (2)
93	718.09	96.89	Shut-In(2)
127	739.87	95.92	End Shut-In(2)
130	1472.34	94.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1450.00	MCW	1.86

Gas Rates

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

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DRILL STEM TEST REPORT

TOOL DIAGRAM

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ATTN: Brad Hutchinson

Applegate Pool #1

34 9 12W Osborne KS

Job Ticket: 30074 **DST#: 2**

Test Start: 2007.10.31 @ 01:48:13

Tool Information

Drill Pipe:	Length:	2643.00 ft	Diameter:	0.00	inches	Volume:	0.00 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	378.00 ft	Diameter:	2.25	inches	Volume:	1.86 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	3.82	inches	Volume:	0.00 bbl	Weight to Pull Loose:	42000.00 lb
						Total Volume:	1.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		7.00 ft						String Weight: Initial	37000.00 lb
Depth to Top Packer:		3035.00 ft						Final	41000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		22.00 ft							
Tool Length:		43.00 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			3015.00		
Shut In Tool	5.00			3020.00		
Hydraulic tool	5.00			3025.00		
Packer	5.00			3030.00	21.00	Bottom Of Top Packer
Packer	5.00			3035.00		
Stubb	1.00			3036.00		
Perforations	2.00			3038.00		
Recorder	0.00	6672	Inside	3038.00		
Perforations	16.00			3054.00		
Recorder	0.00	13534	Outside	3054.00		
Bullnose	3.00			3057.00	22.00	Bottom Packers & Anchor
Total Tool Length:	**43.00**					

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FLUID SUMMARY

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Job Ticket: 30074 **DST#: 2**

Test Start: 2007.10.31 @ 01:48:13

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:	80000 ppm
Viscosity:	59.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1450.00	MCW	1.859

Total Length: 1450.00 ft Total Volume: 1.859 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: rw .14 @ 51 deg

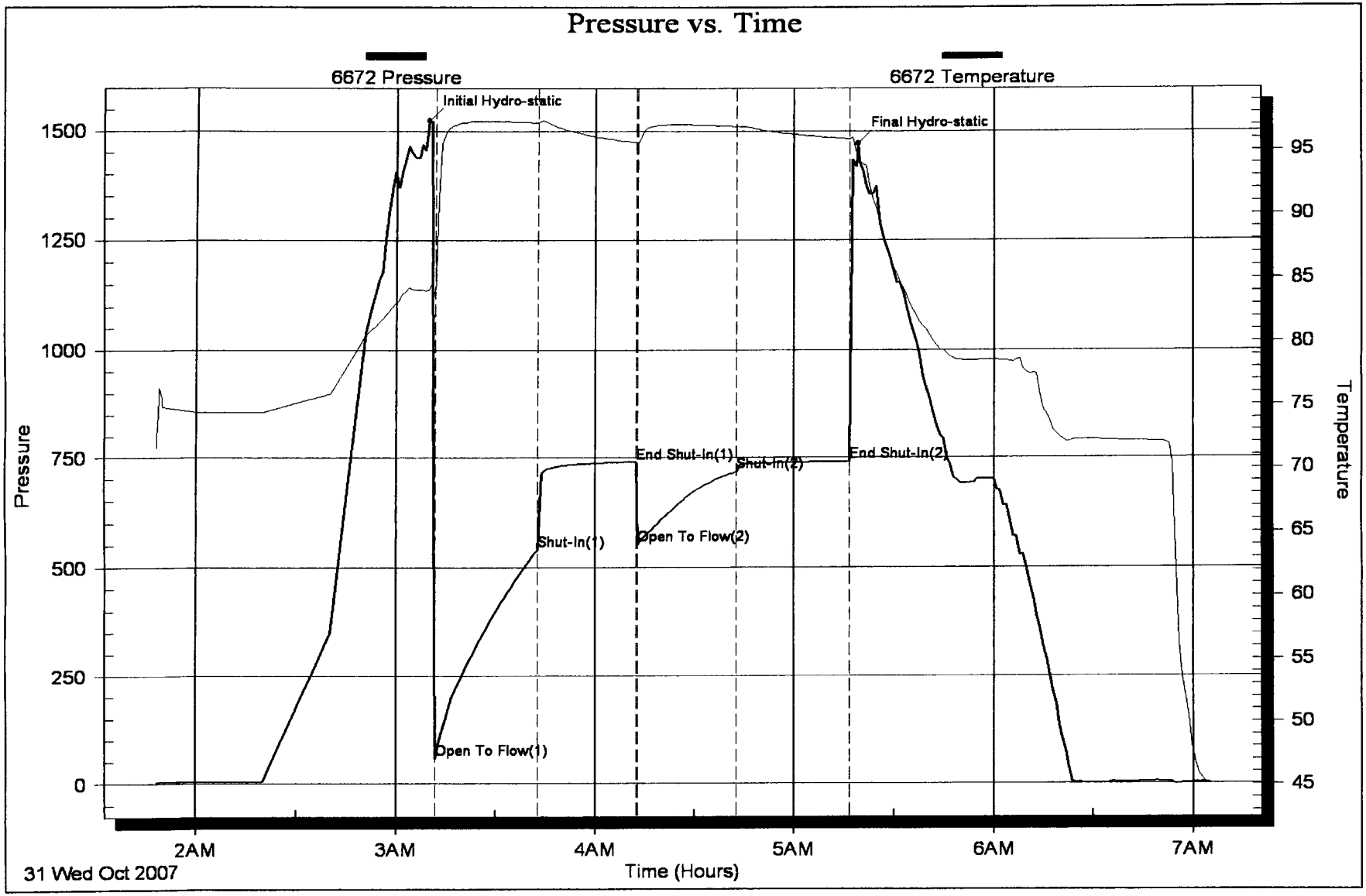

Pressure vs. Time
6672 Pressure
6672 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Shut-In(2)
End Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure
Temperature
Time (Hours)
2AM
3AM
4AM
5AM
6AM
7AM
31 Wed Oct 2007

CHART PAGE

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

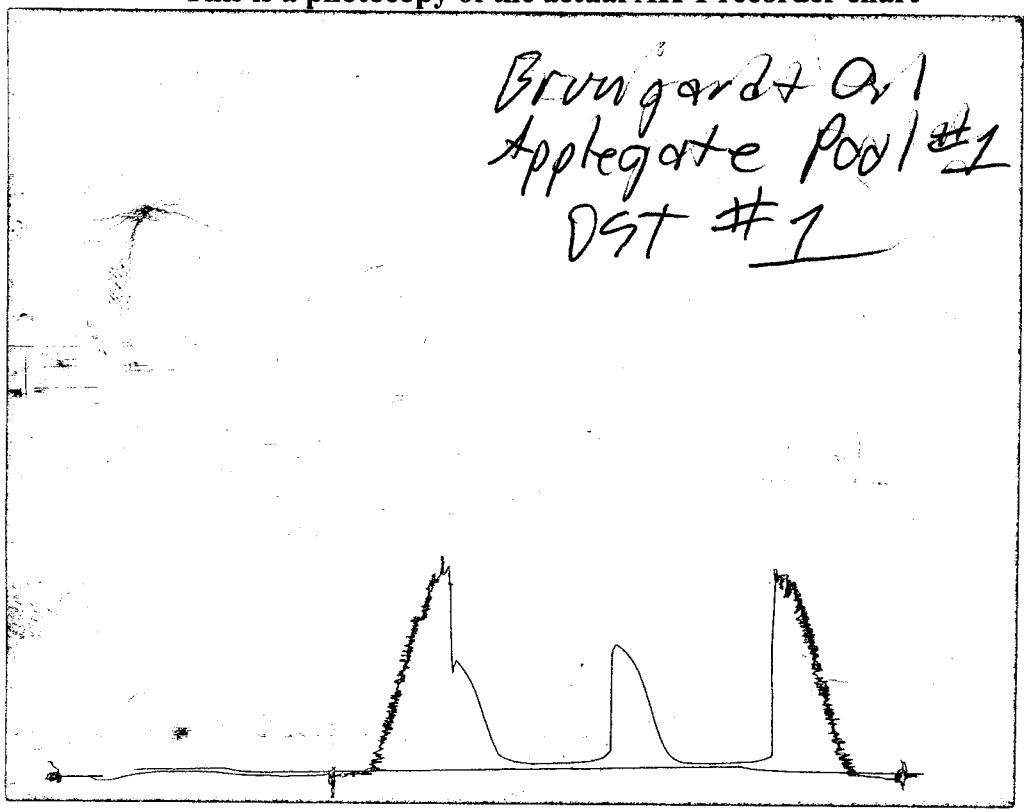


CHART PAGE

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

