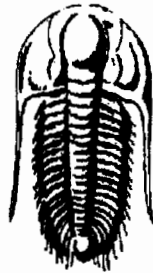


15-195-22440



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Company**

PO Box 1009
McPherson KS 67460

ATTN: James Hess

4 14 22 Trego KS

Joyce #1

Start Date: 2007.03.20 @ 08:50:23

End Date: 2007.03.20 @ 15:49:02

Job Ticket #: 26425 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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WICHITA KS

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Hess Oil Company

Joyce #1

4 14 22 Trego KS

DST # 1

Cherokee

2007.03.20



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
McPherson KS 67460
ATTN: James Hess

Joyce #1
4 14 22 Trego KS
Job Ticket: 26425 **DST#: 1**
Test Start: 2007.03.20 @ 08:50:23

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:37:33
Time Test Ended: 15:49:02

Test Type: Conventional Bottom Hole
Tester: Brandon Turley
Unit No: 35

Interval: **4160.00 ft (KB) To 4220.00 ft (KB) (TVD)**
Total Depth: 4220.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2351.00 ft (KB)
2346.00 ft (CF)
KB to GR/CF: 5.00 ft

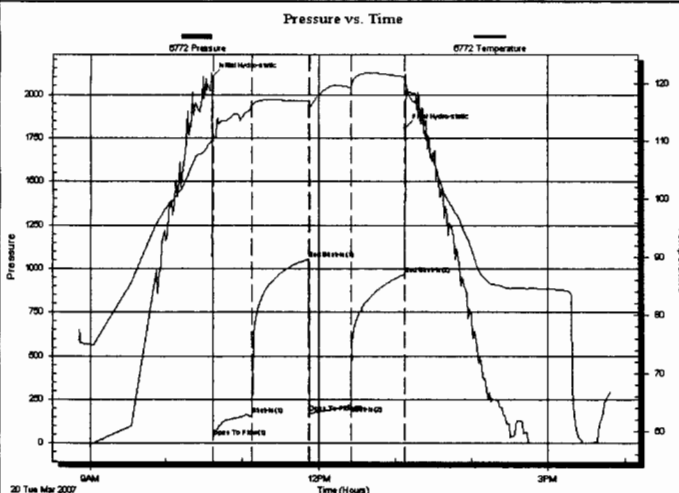
Serial #: 6772

Inside

Press@RunDepth: 217.01 psig @ 4161.00 ft (KB)
Start Date: 2007.03.20 End Date: 2007.03.20
Start Time: 08:50:23 End Time: 15:49:02

Capacity: 7000.00 psig
Last Calib.: 2007.03.20
Time On Btm: 2007.03.20 @ 10:37:03
Time Off Btm: 2007.03.20 @ 13:08:02

TEST COMMENT: IF 1/4 blow BOB in 10 min.
IS No return
FF 1/4 blow BOB in 15 min.
FS Surface blow built to 1 in 45 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2100.53	110.14	Initial Hydro-static
1	37.15	110.07	Open To Flow (1)
31	161.41	116.19	Shut-In (1)
75	1056.97	116.88	End Shut-In (1)
76	174.56	116.24	Open To Flow (2)
109	217.01	119.27	Shut-In (2)
151	968.64	121.10	End Shut-In (2)
151	1809.77	121.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MGO 10%G 60%O 30%M	0.30
188.00	MGO 20%G 60%O 20%M	0.92
124.00	MGO 20%G 50%O 30%M	1.74
124.00	MGO 20%G 70%O 10%M	1.74
30.00	GO 20%G 80%O	0.42

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Company
PO Box 1009
McPherson KS 67460

ATTN: James Hess

Joyce #1
4 14 22 Trego KS
Job Ticket: 26425 **DST#: 1**
Test Start: 2007.03.20 @ 08:50:23

Tool Information

Drill Pipe:	Length: 3893.00 ft	Diameter: 3.80 inches	Volume: 54.61 bbl	Tool Weight:	1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	55.84 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	4160.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	87.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4134.00	
Shut In Tool	5.00			4139.00	
Hydraulic tool	5.00			4144.00	
Jars	5.00			4149.00	
Safety Joint	2.00			4151.00	
Packer	5.00			4156.00	27.00 Bottom Of Top Packer
Packer	4.00			4160.00	
Stubb	1.00			4161.00	
Recorder	0.00	6772	Inside	4161.00	
Perforations	20.00			4181.00	
Change Over Sub	1.00			4182.00	
Drill Pipe	32.00			4214.00	
Change Over Sub	1.00			4215.00	
Recorder	0.00	7437	Outside	4215.00	
Bullnose	5.00			4220.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company

Joyce #1

PO Box 1009
McPherson KS 67460

4 14 22 Trego KS

Job Ticket: 26425

DST#: 1

ATTN: James Hess

Test Start: 2007.03.20 @ 08:50:23

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCOG 10%G 60%O 30%M	0.305
188.00	MCOG 20%G 60%O 20%M	0.925
124.00	MCOG 20%G 50%O 30%M	1.739
124.00	MCOG 20%G 70%O 10%M	1.739
30.00	GO 20%G 80%O	0.421

Total Length: 528.00 ft

Total Volume: 5.129 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6772

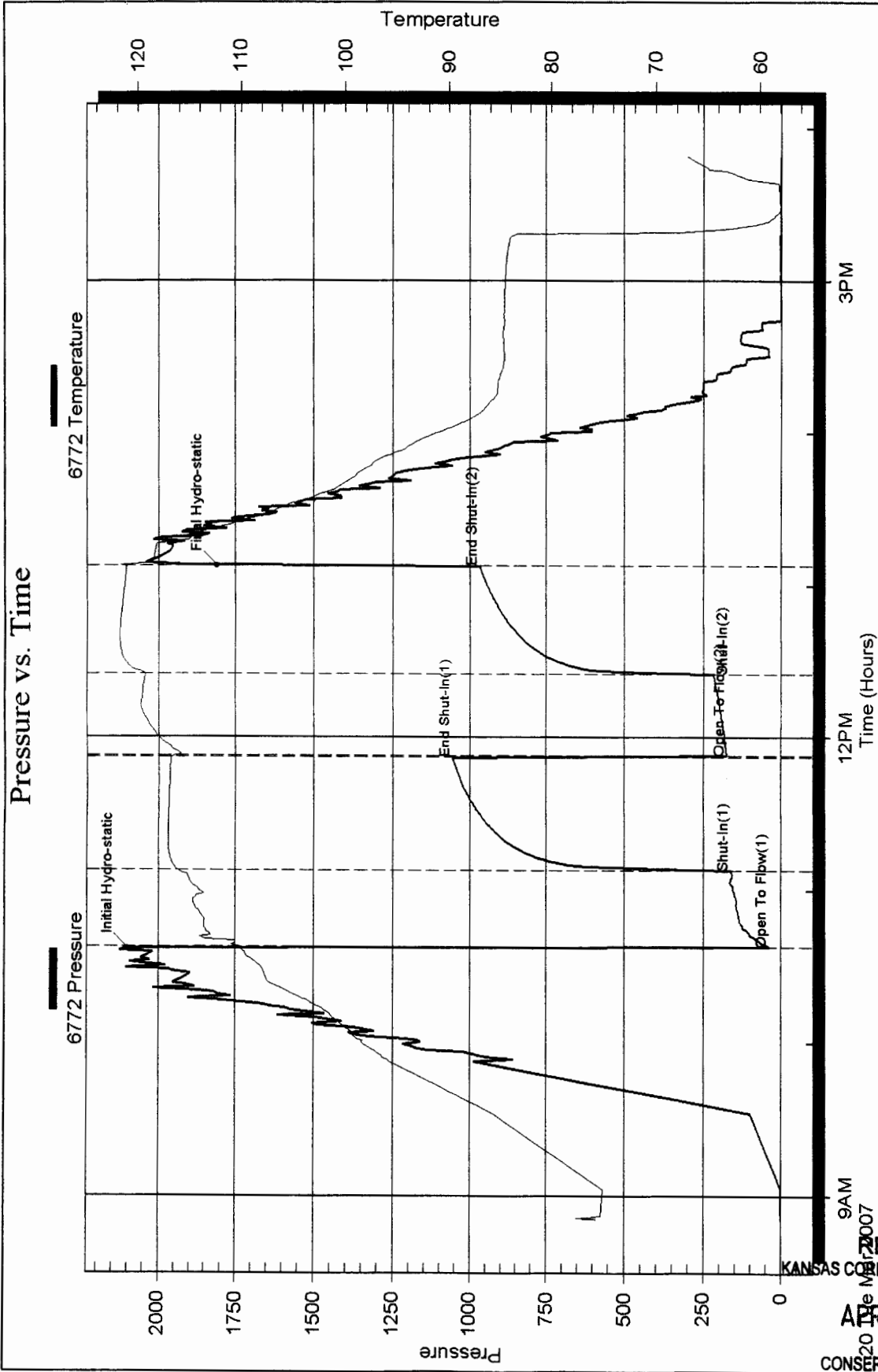
Inside

Hess Oil Company

4 14 22 Trego KS

DST Test Number: 1

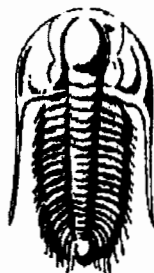
Pressure vs. Time



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WICHITA, KS

Ref. No: 26425

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Hess Oil Company**

PO Box 1009
McPherson KS 67460

ATTN: James Hess

4 14 22 Trego KS

Joyce #1

Start Date: 2007.03.20 @ 21:30:50

End Date: 2007.03.21 @ 05:46:29

Job Ticket #: 26626 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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CONSERVATION DIVISION
WICHITA, KS

Hess Oil Company

Joyce #1

4 14 22 Trego KS

DST # 2

Cherokee

2007.03.20



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Hess Oil Company
PO Box 1009
McPherson KS 67460
ATTN: James Hess

Joyce #1
4 14 22 Trego KS
Job Ticket: 26626 DST#: 2
Test Start: 2007.03.20 @ 21:30:50

GENERAL INFORMATION:

Formation: **Cherokee**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:51:30
Time Test Ended: 05:46:29

Test Type: Conventional Straddle
Tester: Brandon Turley
Unit No: 35

Interval: **4159.00 ft (KB) To 4233.00 ft (KB) (TVD)**
Total Depth: 4240.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2351.00 ft (KB)
2346.00 ft (CF)
KB to GR/CF: 5.00 ft

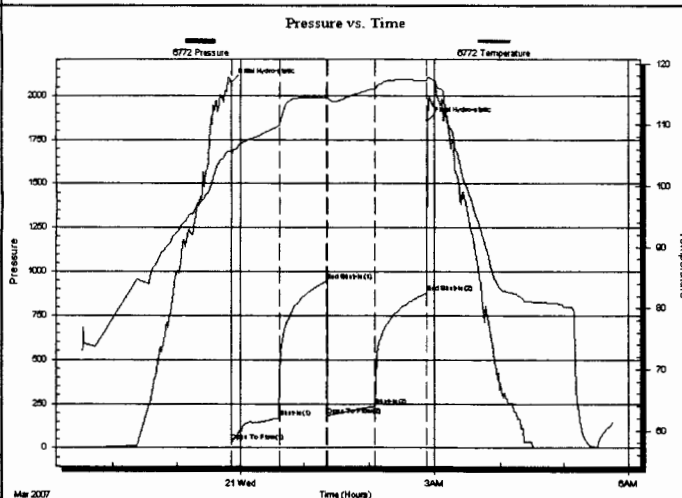
Serial #: 6772

Inside

Press@RunDepth: 236.01 psig @ 4160.00 ft (KB)
Start Date: 2007.03.20 End Date: 2007.03.21
Start Time: 21:30:50 End Time: 05:46:29

Capacity: 7000.00 psig
Last Calib.: 2007.03.21
Time On Btm: 2007.03.20 @ 23:51:15
Time Off Btm: 2007.03.21 @ 02:53:29

TEST COMMENT: IF 1/4 blow BOB in 14 min.
IS No return
FF 1/4 blow BOB in 15 min.
FS Surface blow built to 1 in 45 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2076.20	105.78	Initial Hydro-static
1	33.66	105.01	Open To Flow (1)
46	169.42	109.87	Shut-In(1)
90	944.58	114.50	End Shut-In(1)
91	179.72	114.31	Open To Flow (2)
135	236.01	115.91	Shut-In(2)
182	878.50	117.30	End Shut-In(2)
183	1857.56	117.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
250.00	MCOG 10%G 70%O 20%M	1.23
155.00	MCOG 20%G 50%O 30%M	2.17
186.00	GO 20%G 80%O	2.61

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Hess Oil Company

Joyce #1

PO Box 1009
McPherson KS 67460

4 14 22 Trego KS

Job Ticket: 26626

DST#: 2

ATTN: James Hess

Test Start: 2007.03.20 @ 21:30:50

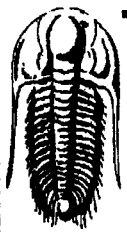
Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 250.00 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 55.85 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4159.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	4230.00 ft			
Interval between Packers:	71.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4133.00	
Shut In Tool	5.00			4138.00	
Hydraulic tool	5.00			4143.00	
Jars	5.00			4148.00	
Safety Joint	2.00			4150.00	
Packer	5.00			4155.00	27.00 Bottom Of Top Packer
Packer	4.00			4159.00	
Stubb	1.00			4160.00	
Recorder	0.00	6772	Inside	4160.00	
Perforations	2.00			4162.00	
Change Over Sub	1.00			4163.00	
Drill Pipe	60.00			4223.00	
Change Over Sub	1.00			4224.00	
Perforations	5.00			4229.00	
Recorder	0.00	7437	Outside	4229.00	
Blank Off Sub	1.00			4230.00	71.00 Tool Interval
Packer	3.00			4233.00	
Stubb	1.00			4234.00	
Perforations	1.00			4235.00	
Recorder	0.00	10248	Below	4235.00	
Bullnose	5.00			4240.00	10.00 Bottom Packers & Anchor

Total Tool Length: 108.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Hess Oil Company

Joyce #1

PO Box 1009
McPherson KS 67460

4 14 22 Trego KS

Job Ticket: 26626

DST#: 2

ATTN: James Hess

Test Start: 2007.03.20 @ 21:30:50

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.76 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
250.00	MCGO 10%G 70%O 20%M	1.229
155.00	MCGO 20%G 50%O 30%M	2.174
186.00	GO 20%G 80%O	2.609

Total Length: 591.00 ft

Total Volume: 6.012 bbl

Num Fluid Samples: 0

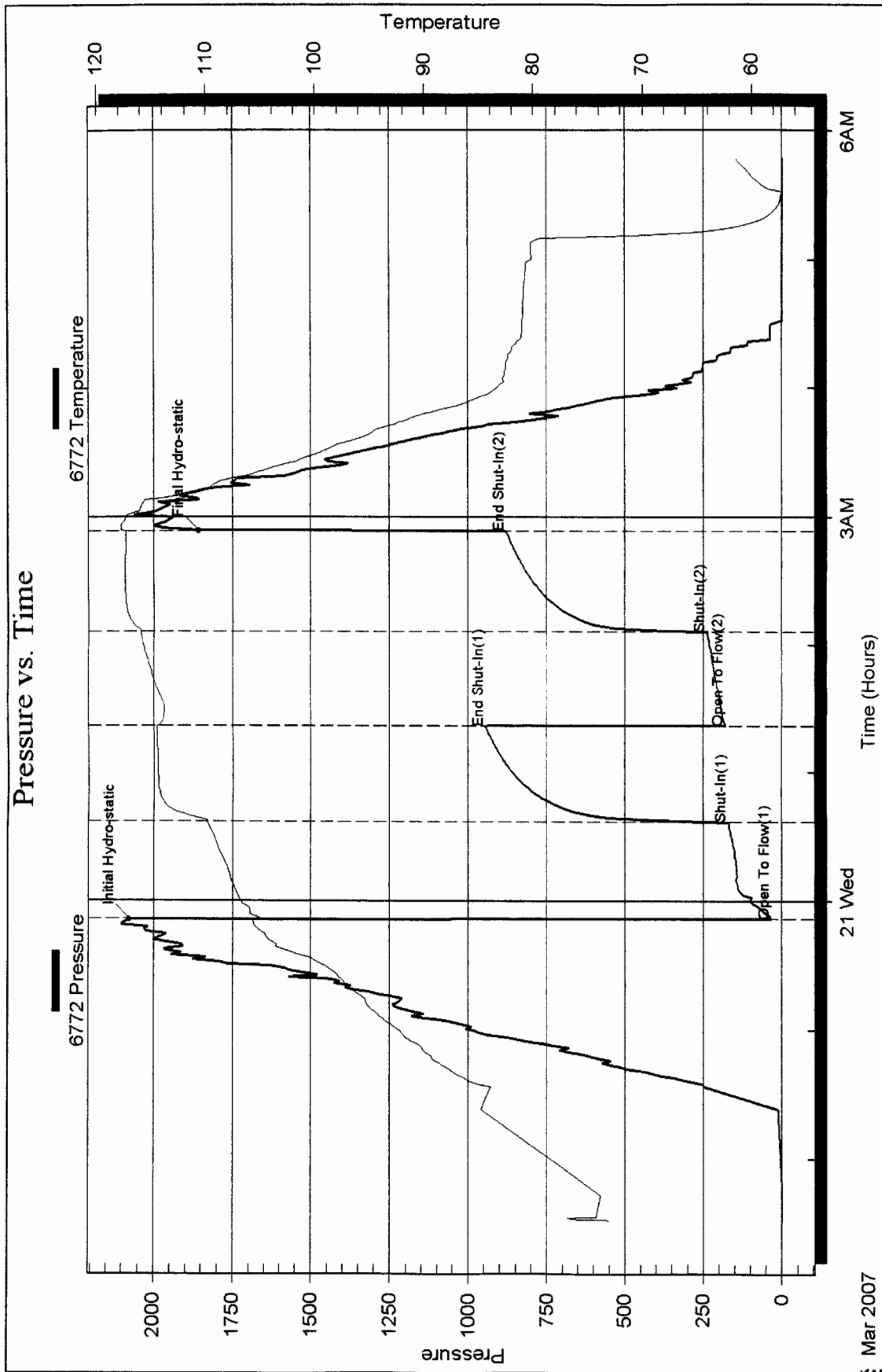
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Ref. No: 26626

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