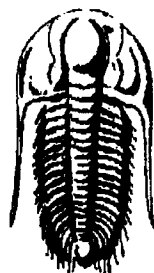


15-039-20999

27-5s-26w

CONFIDENTIAL
TIGHT HOLE



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

27 5 26W Decatur KS

Kinser Unit 1-27

Start Date: 2007.04.23 @ 02:48:18

End Date: 2007.04.23 @ 10:06:18

Job Ticket #: 27881

DST #: 1

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RECEIVED
KANSAS CORPORATION COMMISSION

AUG 20 2007

CONSERVATION DIVISION
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Murfin Drilling Company Inc

Kinser Unit 1-27

27 5 26W Decatur KS

DST # 1

"A&B"

2007.04.23



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kinser Unit 1-27

27 5 26W Decatur KS

Job Ticket: 27881

DST#: 1

Test Start: 2007.04.23 @ 02:48:18

GENERAL INFORMATION:

Formation: **"A&B"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:18:58

Time Test Ended: 10:06:18

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: **3646.00 ft (KB) To 3690.00 ft (KB) (TVD)**

Total Depth: 3690.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2567.00 ft (KB)

2562.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 476.23 psig @ 3647.00 ft (KB)

Start Date: 2007.04.23

End Date:

2007.04.23

Capacity: 7000.00 psig

Last Calib.: 2007.04.23

Start Time: 02:48:20

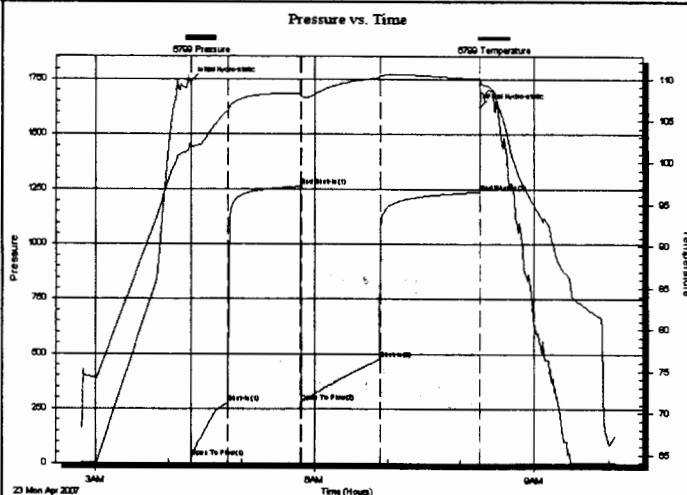
End Time:

10:06:18

Time On Btm: 2007.04.23 @ 04:18:48

Time Off Btm: 2007.04.23 @ 08:16:07

TEST COMMENT: IF Strong blow built to BOB in 9 minutes.
ISI Bled off no blow back
FF Strong blow built to BOB in 12 minutes.
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1739.07	102.37	Initial Hydro-static
1	24.42	101.82	Open To Flow (1)
31	275.88	106.18	Shut-In (1)
90	1263.14	108.28	End Shut-In (1)
90	277.99	107.85	Open To Flow (2)
155	476.23	110.13	Shut-In (2)
237	1239.35	110.01	End Shut-In (2)
238	1621.17	110.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
870.00	Salt Water 100%SW	7.79
60.00	MCW 10%M 90%W	0.84
60.00	WCM 20%W 80%M	0.84
20.00	OCM 15%O 85%M	0.28
0.00	RW=1.17 OHMS@55degF=57000ppmCh	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

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kinser Unit 1-27

27 5 26W Decatur KS

Job Ticket: 27881

DST#: 1

Test Start: 2007.04.23 @ 02:48:18

Tool Information

Drill Pipe:	Length: 3148.00 ft	Diameter: 3.80 inches	Volume: 44.16 bbl	Tool Weight: 2100.00 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: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 46.55 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3646.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3628.00	
Hydraulic tool	5.00			3633.00	
Safety Joint	3.00			3636.00	
Packer	5.00			3641.00	23.00 Bottom Of Top Packer
Packer	5.00			3646.00	
Stubb	1.00			3647.00	
Recorder	0.00	6799	Inside	3647.00	
Perforations	7.00			3654.00	
Blank Spacing	33.00			3687.00	
Recorder	0.00	10270	Outside	3687.00	
Bullnose	3.00			3690.00	44.00 Bottom Packers & Anchor

Total Tool Length: 67.00

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Kinser Unit 1-27

250 N Water Ste 300
Wichita KS 67202

27 5 26W Decatur KS

Job Ticket: 27881

DST#: 1

ATTN: Paul Gunzelman

Test Start: 2007.04.23 @ 02:48:18

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
870.00	Salt Water 100%SW	7.786
60.00	MCW 10%M 90%W	0.842
60.00	WCM 20%W 80%M	0.842
20.00	OCM 15%O 85%M	0.281
0.00	RW=.17 OHMS@55degF=57000ppmCl	0.000

Total Length: 1010.00 ft

Total Volume: 9.751 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

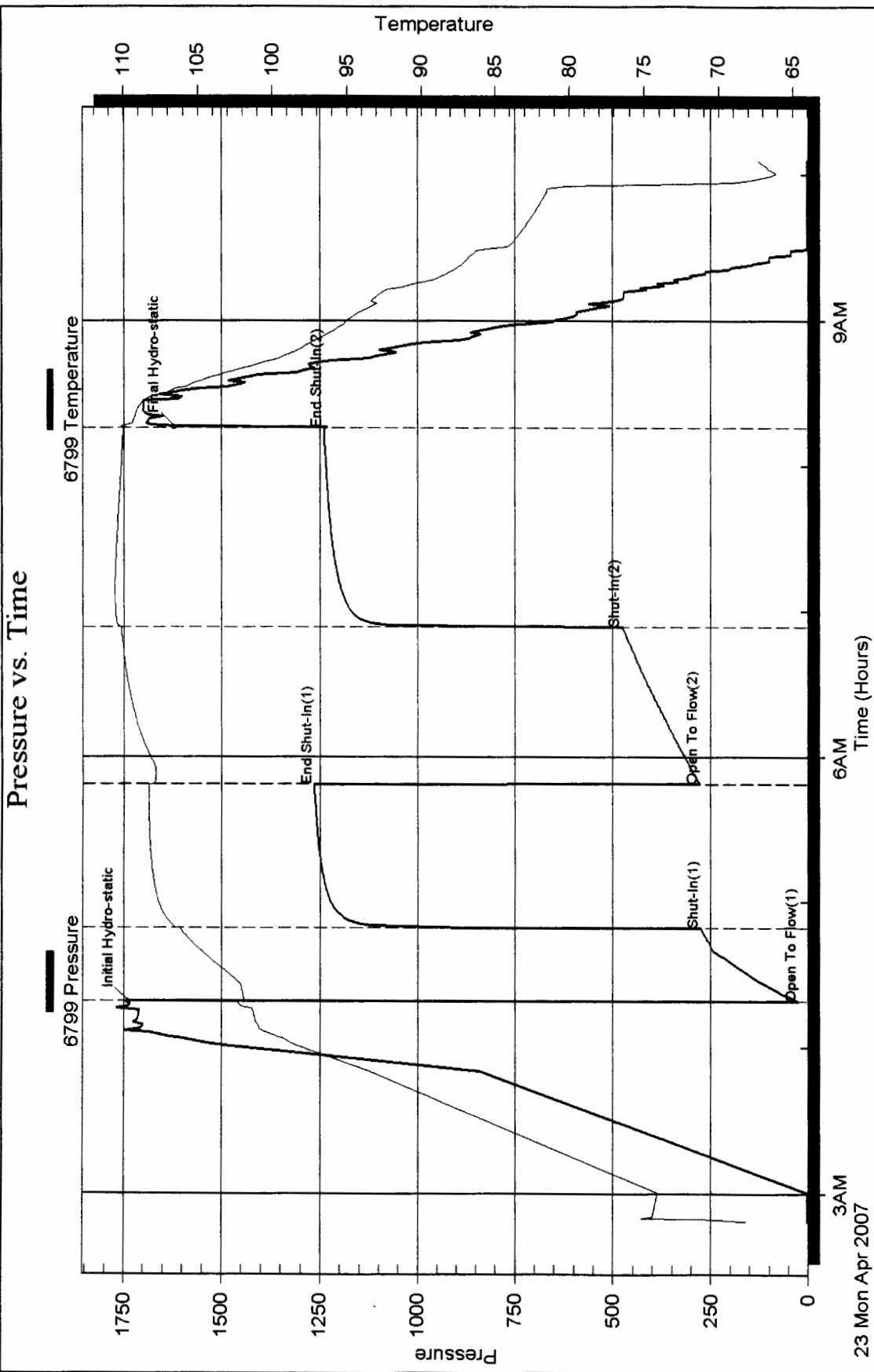
Serial #:

Laboratory Name:

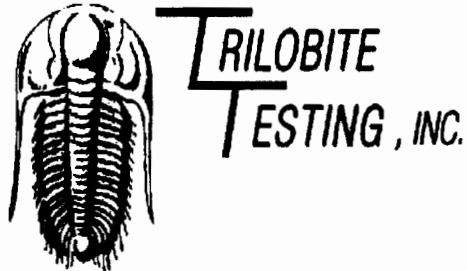
Laboratory Location:

Recovery Comments:

Pressure vs. Time



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DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Company Inc**

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

27 5 26W Decatur KS

Kinser Unit 1-27

Start Date: 2007.04.23 @ 18:54:53

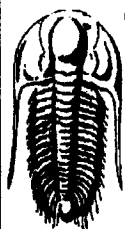
End Date: 2007.04.24 @ 01:20:13

Job Ticket #: 27882 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kinser Unit 1-27

27 5 26W Decatur KS

Job Ticket: 27882

DST#: 2

Test Start: 2007.04.23 @ 18:54:53

GENERAL INFORMATION:

Formation: "G"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:15:33

Time Test Ended: 01:20:13

Test Type: Conventional Bottom Hole

Tester: Jake Fahrenbruch

Unit No: 22

Interval: 3710.00 ft (KB) To 3754.00 ft (KB) (TVD)

Total Depth: 3754.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2567.00 ft (KB)

2562.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press@RunDepth: 69.47 psig @ 3711.00 ft (KB)

Start Date: 2007.04.23

End Date:

2007.04.24

Start Time: 18:54:55

End Time:

01:20:12

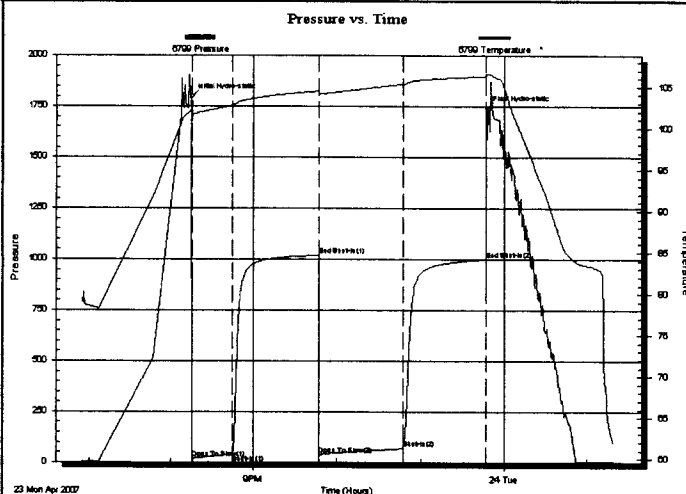
Capacity: 7000.00 psig

Last Calib.: 2007.04.24

Time On Btm: 2007.04.23 @ 20:15:23

Time Off Btm: 2007.04.23 @ 23:47:23

TEST COMMENT: IF Weak blow built to 2 " in bucket
ISI Bled off no blow back
FF Weak blow built to 1 " in bucket
FSI Bled off no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.71	102.10	Initial Hydro-static
1	17.88	100.90	Open To Flow (1)
30	36.28	102.76	Shut-In (1)
92	1019.08	104.49	End Shut-In (1)
92	38.40	103.92	Open To Flow (2)
152	69.47	105.34	Shut-In (2)
212	999.80	106.29	End Shut-In (2)
212	1737.75	106.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	Drilling Mud 100%M	0.39

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Company Inc

250 N Water Ste 300
Wichita KS 67202

ATTN: Paul Gunzelman

Kinser Unit 1-27

27 5 26W Decatur KS

Job Ticket: 27882

DST#: 2

Test Start: 2007.04.23 @ 18:54:53

Tool Information

Drill Pipe:	Length: 3208.00 ft	Diameter: 3.80 inches	Volume: 45.00 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 485.00 ft	Diameter: 2.25 inches	Volume: 2.39 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 47.39 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3710.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

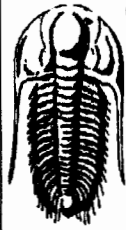
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3692.00	
Hydraulic tool	5.00			3697.00	
Safety Joint	3.00			3700.00	
Packer	5.00			3705.00	23.00 Bottom Of Top Packer
Packer	5.00			3710.00	
Stubb	1.00			3711.00	
Recorder	0.00	6799	Inside	3711.00	
Perforations	7.00			3718.00	
Blank Spacing	33.00			3751.00	
Recorder	0.00	10270	Outside	3751.00	
Bullnose	3.00			3754.00	44.00 Bottom Packers & Anchor

Total Tool Length: 67.00

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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Company Inc

Kinser Unit 1-27

250 N Water Ste 300
Wichita KS 67202

27 5 26W Decatur KS

Job Ticket: 27882

DST#: 2

ATTN: Paul Gunzelman

Test Start: 2007.04.23 @ 18:54:53

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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	Drilling Mud 100%M	0.393

Total Length: 80.00 ft

Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

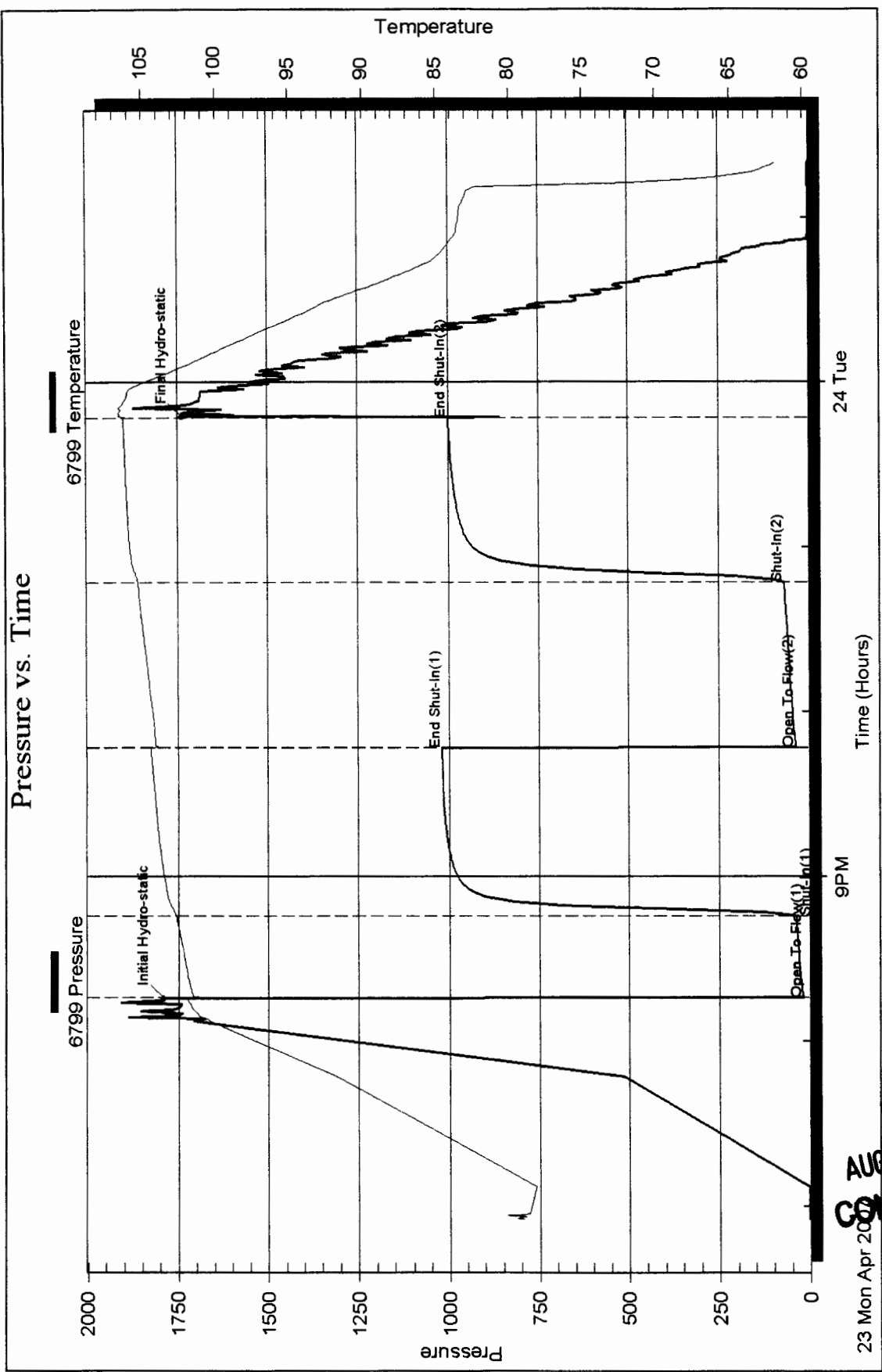
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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