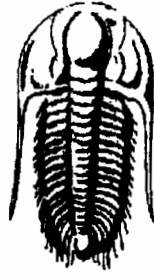


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AND KCJ



**TRILOBITE
TESTING, INC.**

CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **Larson Operating Co**

562 W State Rd 4
Olmits KS 67564

ATTN: Steve Murphy

8 32 15W Barber KS

Gypsum Hills#1-8

Start Date: 2007.05.05 @ 15:19:39

End Date: 2007.05.05 @ 23:15:54

Job Ticket #: 27019

DST #: 1

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

RECEIVED
KANSAS CORPORATION COMMISSION

AUG 27 2007

CONSERVATION DIVISION
WICHITA, KS

Larson Operating Co

Gypsum Hills#1-8

8 32 15W Barber KS

DST # 1

Miss.

2007.05.05



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Larson Operating Co

562 W State Rd 4
Olmritz KS 67564

ATTN: Steve Murphy

Gypsum Hills#1-8

8 32 15W Barber KS

Job Ticket: 27019

DST#: 1

Test Start: 2007.05.05 @ 15:19:39

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 17:49:24

Time Test Ended: 23:15:54

Test Type: Conventional Bottom Hole

Tester: Gary Pevoteaux

Unit No: 39

Interval: **4867.00 ft (KB) To 4910.00 ft (KB) (TVD)**

Total Depth: 4910.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2036.00 ft (KB)

2027.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **8167** Inside

Press@RunDepth: 27.49 psig @ 4868.00 ft (KB)

Start Date: 2007.05.05

End Date:

2007.05.05

Start Time: 15:19:44

End Time:

23:15:53

Capacity: 7000.00 psig

Last Calib.: 2007.05.05

Time On Btm: 2007.05.05 @ 17:48:54

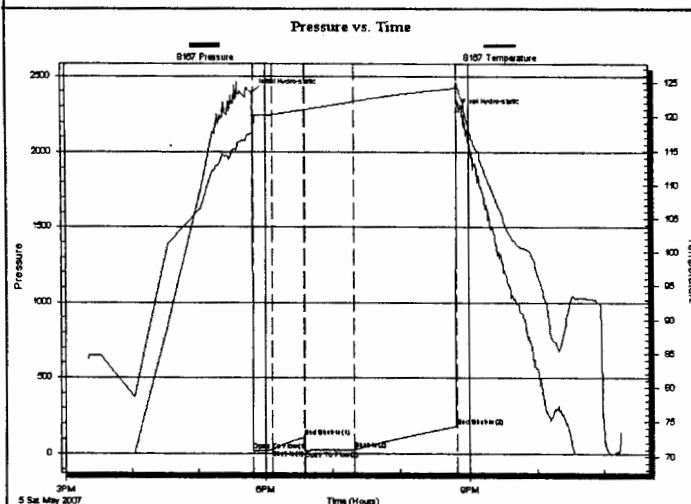
Time Off Btm: 2007.05.05 @ 20:49:23

TEST COMMENT: IF Fair blow 3 - 11 "

ISI No blow

FF Weak to fair blow 2 - 6 "

FSI No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2390.40	117.49	Initial Hydro-static
1	20.13	116.99	Open To Flow (1)
18	26.20	120.25	Shut-In (1)
46	111.29	121.00	End Shut-In (1)
47	20.26	120.95	Open To Flow (2)
91	27.49	122.18	Shut-In (2)
181	183.31	124.18	End Shut-In (2)
181	2264.11	124.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drig. Mud	0.29
0.00	270 ft. of GIP	0.00

Gas Rates

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

DRILL STEM TEST REPORT

CONFIDENTIAL
TOOL DIAGRAM

Larson Operating Co

Gypsum Hills#1-8

562 W State Rd 4
Olmitz KS 67564

8 32 15W Barber KS

Job Ticket: 27019

DST#: 1

ATTN: Steve Murphy

Test Start: 2007.05.05 @ 15:19:39

Tool Information

Drill Pipe:	Length: 4813.00 ft	Diameter: 3.80 inches	Volume: 67.51 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:	24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 67.66 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4867.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	71.00 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			4840.00	
Shut In Tool	5.00			4845.00	
Hydraulic tool	5.00			4850.00	
Jars	5.00			4855.00	
Safety Joint	3.00			4858.00	
Packer	4.00			4862.00	28.00 Bottom Of Top Packer
Packer	5.00			4867.00	
Stubb	1.00			4868.00	
Recorder	0.00	8167	Inside	4868.00	
Perforations	4.00			4872.00	
Change Over Sub	1.00			4873.00	
Blank Spacing	31.00			4904.00	
Change Over Sub	1.00			4905.00	
Recorder	0.00	11019	Outside	4905.00	
Bullnose	5.00			4910.00	43.00 Bottom Packers & Anchor

Total Tool Length: 71.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating Co

Gypsum Hills#1-8

562 W State Rd 4
Olmitz KS 67564

8 32 15W Barber KS

Job Ticket: 27019

DST#: 1

ATTN: Steve Murphy

Test Start: 2007.05.05 @ 15:19:39

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:

3500 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drig.Mud	0.288
0.00	270 ft.of GIP	0.000

Total Length: 40.00 ft

Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

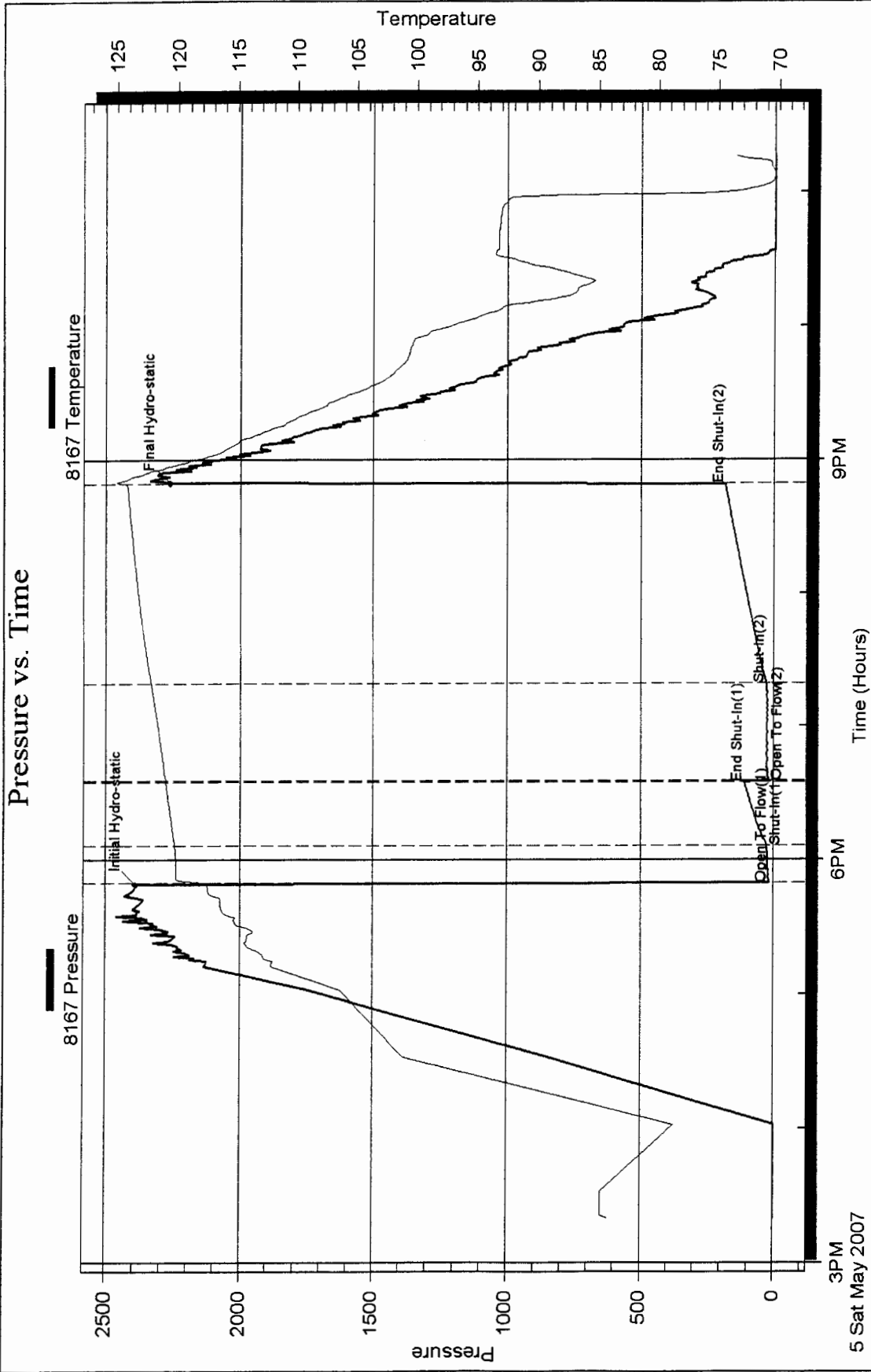
8 32 15W Barber KS

Larson Operating Co

Inside

Serial #: 8167

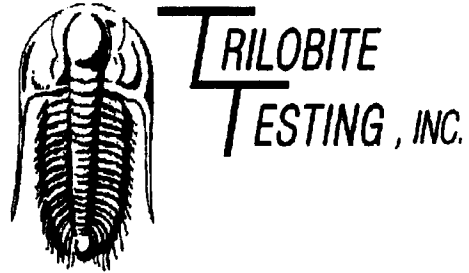
Pressure vs. Time



Ref. No: 27019

Trilobite Testing, Inc

Printed: 2007.05.10 @ 11:02:17 Page 5



DRILL STEM TEST REPORT

Prepared For: **Larson Operating Co**

562 W State Rd 4
Olmitz KS 67564

ATTN: Steve Murphy

8 32 15W Barber KS

Gypsum Hills#1-8

Start Date: 2007.05.06 @ 18:45:24

End Date: 2007.05.07 @ 03:45:24

Job Ticket #: 25867 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

Larson Operating Co

562 W State Rd 4
Olmitz KS 67564

ATTN: Steve Murphy

Gypsum Hills#1-8

8 32 15W Barber KS

Job Ticket: 25867

DST#: 2

Test Start: 2007.05.06 @ 18:45:24

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:10:54

Time Test Ended: 03:45:24

Test Type: Conventional Straddle

Tester: Jerry Adams

Unit No: 36

Interval: **4920.00 ft (KB) To 4940.00 ft (KB) (TVD)**

Total Depth: 5000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2036.00 ft (KB)

2027.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: **6798**

Inside

Press@RunDepth: 31.33 psig @ 4921.00 ft (KB)

Start Date: 2007.05.06

End Date:

2007.05.07

Capacity: 7000.00 psig

Last Calib.: 2007.05.07

Start Time: 18:45:29

End Time:

03:45:24

Time On Btm: 2007.05.06 @ 21:09:54

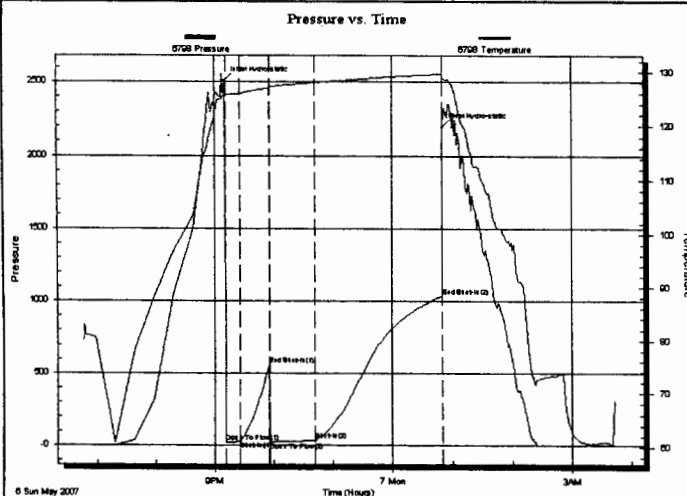
Time Off Btm: 2007.05.07 @ 00:50:23

TEST COMMENT: IF Fair blow Built to 8 "

ISI No blow

FF Fair blow Built to 7 "

FSI No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2505.48	125.68	Initial Hydro-static
1	19.87	125.54	Open To Flow (1)
16	24.24	125.87	Shut-In (1)
45	560.14	126.99	End Shut-In (1)
46	20.73	127.18	Open To Flow (2)
92	31.33	127.99	Shut-In (2)
220	1036.92	129.65	End Shut-In (2)
221	2192.35	129.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	SG&OCM 2%G 5%O 93%M	0.28
0.00	235' GIP	0.00
0.00		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

Larson Operating Co

Gypsum Hills#1-8

562 W State Rd 4
Olmritz KS 67564

8 32 15W Barber KS

Job Ticket: 25867

DST#: 2

ATTN: Steve Murphy

Test Start: 2007.05.06 @ 18:45:24

Tool Information

Drill Pipe:	Length: 4878.00 ft	Diameter: 3.80 inches	Volume: 68.43 bbl	Tool Weight: 2500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 68.58 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4920.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	4940.00 ft			
Interval between Packers:	20.00 ft			
Tool Length:	108.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4897.00	
Hydraulic tool	5.00			4902.00	
Jars	5.00			4907.00	
Safety Joint	3.00			4910.00	
Packer	5.00			4915.00	28.00 Bottom Of Top Packer
Packer	5.00			4920.00	
Stubb	1.00			4921.00	
Recorder	0.00	6798	Inside	4921.00	
Perforations	18.00			4939.00	
Recorder	0.00	13400		4939.00	
Blank Off Sub	1.00			4940.00	20.00 Tool Interval
Packer	2.00			4942.00	
Stubb	1.00			4943.00	
Change Over Sub	1.00			4944.00	
Blank Spacing	31.00			4975.00	
Change Over Sub	1.00			4976.00	
Perforations	21.00			4997.00	
Recorder	0.00	13249	Below	4997.00	
Bullnose	3.00			5000.00	60.00 Bottom Packers & Anchor
Total Tool Length:		108.00			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Larson Operating Co

Gypsum Hills#1-8

562 W State Rd 4
Olmritz KS 67564

8 32 15W Barber KS

Job Ticket: 25867

DST#: 2

ATTN: Steve Murphy

Test Start: 2007.05.06 @ 18:45:24

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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	SG&OCM 2%G 5%O 93%M	0.279
0.00	235' GIP	0.000
0.00		0.000

Total Length: 40.00 ft

Total Volume: 0.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

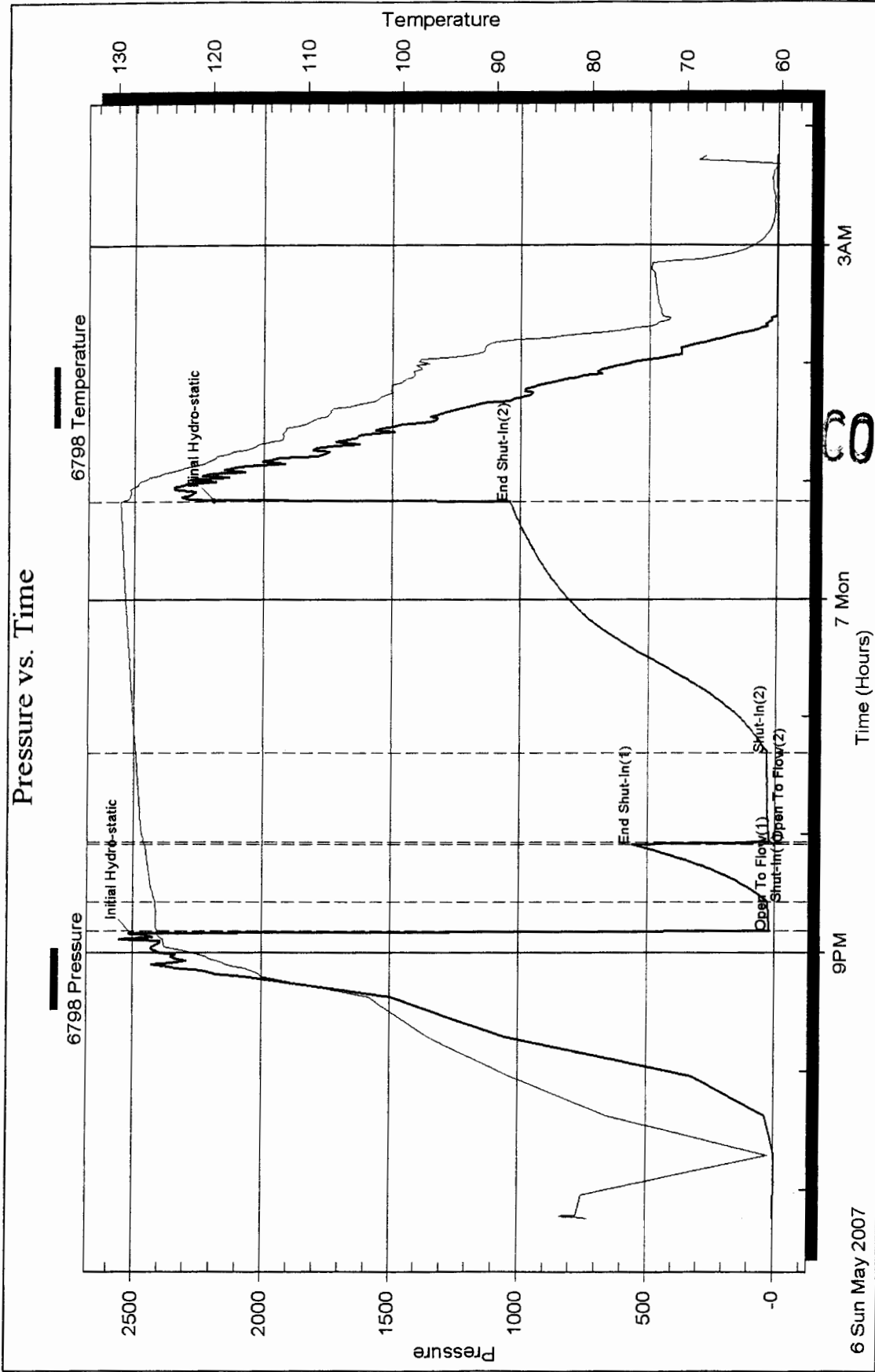
Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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