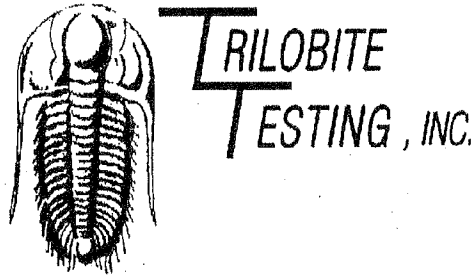


15-163-23596

21-8S-18W



DRILL STEM TEST REPORT

Prepared For: **FMIL Natural Resources LLC**

410-17th St Ste 900
Denver CO 80202

KCC
JUL 09 2007
CONFIDENTIAL

ATTN: Cassandra Parks

21 8S 18W Rooks KS

Mosher # 12A-21-818

Start Date: 2007.04.21 @ 17:13:01

End Date: 2007.04.21 @ 23:13:01

Job Ticket #: 27440

DST #: 1

CONFIDENTIAL

15-163-23596-00-00

2310 FSL-990
FWL

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

Printed: 2007.04.23 @ 13:12:38 Page 1

FMIL Natural Resources LLC

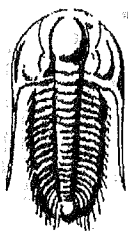
Mosher # 12A-21-818

21 8S 18W Rooks KS

DST # 1

L.Kc.-1-L

2007.04.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FML Natural Resources LLC

410-17th St Ste 900
Denver CO 80202

ATTN: Cassandra Parks

Mosher # 12A-21-818

21 8S 18W Rooks KS

Job Ticket: 27440

DST#: 1

Test Start: 2007.04.21 @ 17:13:01

GENERAL INFORMATION:

Formation: L.Kc.-I-L

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:41:01

Time Test Ended: 23:13:01

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: 3290.00 ft (KB) To 3378.00 ft (KB) (TVD)

Total Depth: 3378.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1958.00 ft (KB)

1953.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669

Inside

Press@RunDepth: 15.57 psig @ 3292.00 ft (KB)

Start Date: 2007.04.21

End Date:

2007.04.21

Start Time: 17:13:06

End Time:

23:13:00

Capacity: 7000.00 psig

Last Calib.: 2007.04.21

Time On Btm: 2007.04.21 @ 18:40:31

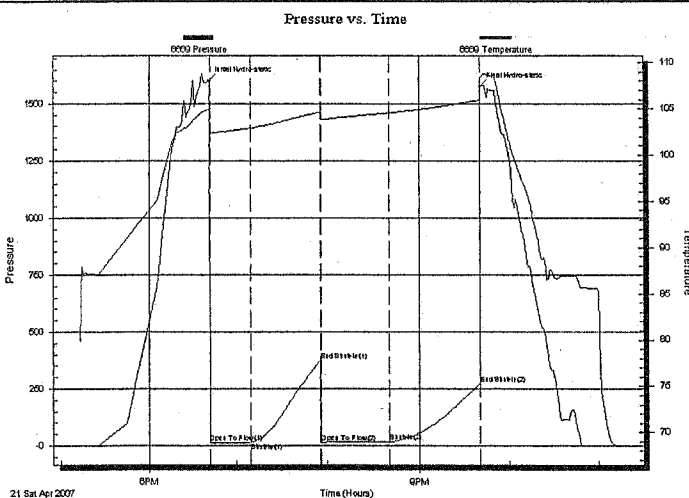
Time Off Btm: 2007.04.21 @ 21:40:31

TEST COMMENT: IF Weak dead in 8 min.

ISI Dead

FF Dead

FSI Dead



PRESSURE SUMMARY

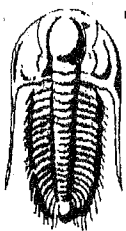
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.62	104.96	Initial Hydro-static
1	12.58	102.41	Open To Flow (1)
29	13.90	102.90	Shut-In (1)
75	374.58	104.64	End Shut-In (1)
76	14.48	103.88	Open To Flow (2)
120	15.57	104.55	Shut-In (2)
180	272.43	105.94	End Shut-In (2)
180	1574.68	108.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	D.Mud few Oil spots	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

410-17th St Ste 900
Denver CO 80202

ATTN: Cassandra Parks

Mosher # 12A-21-818

21 8S 18W Rooks KS

Job Ticket: 27440

DST#: 1

Test Start: 2007.04.21 @ 17:13:01

Tool Information

Drill Pipe:	Length: 3259.00 ft	Diameter: 3.80 inches	Volume: 45.72 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 28.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 45.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3290.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	108.00 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			3271.00	
Shut In Tool	5.00			3276.00	
Hydraulic tool	5.00			3281.00	
Packer	4.00			3285.00	20.00 Bottom Of Top Packer
Packer	5.00			3290.00	
Stubb	1.00			3291.00	
Perforations	1.00			3292.00	
Recorder	0.00	6669	Inside	3292.00	
Change Over Sub	1.00			3293.00	
Blank Spacing	61.00			3354.00	
Change Over Sub	1.00			3355.00	
Perforations	20.00			3375.00	
Recorder	0.00	13308	Outside	3375.00	
Bullnose	3.00			3378.00	88.00 Bottom Packers & Anchor

Total Tool Length: 108.00

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WICHITA, KS



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Mosher # 12A-21-818

410-17th St Ste 900
Denver CO 80202

21 8S 18W Rooks KS

ATTN: Cassandra Parks

Job Ticket: 27440

DST#: 1

Test Start: 2007.04.21 @ 17:13:01

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 47.00 sec/qt

Water Loss: 7.99 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	D.Mud few Oil spots	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

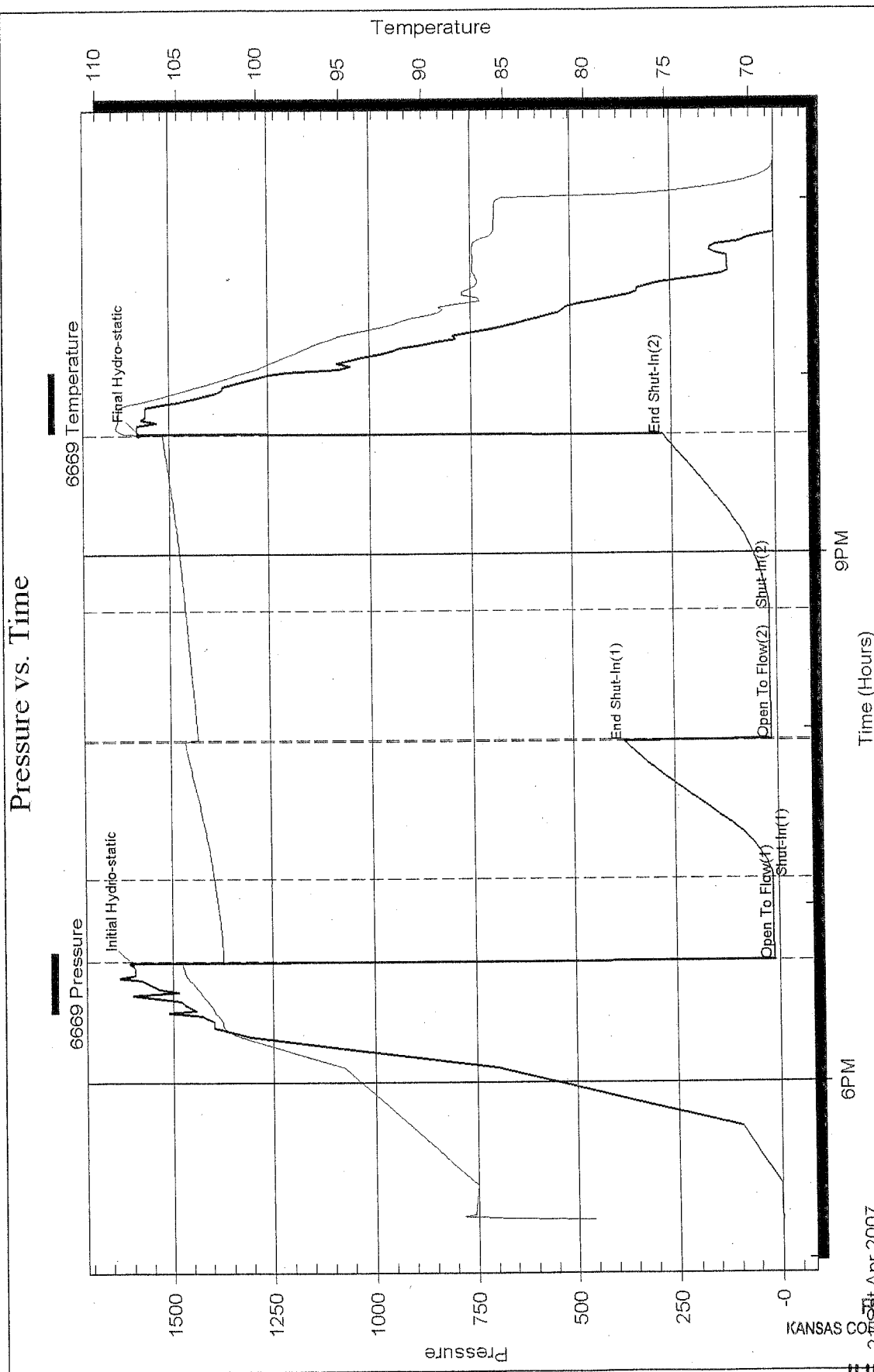
21 8S 18W Rooks KS

FML Natural Resources LLC

Inside

Serial #: 6669

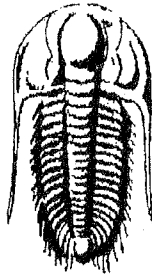
Pressure vs. Time



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WICHITA, KS
Trilogix Testing, Inc

Ref. No: 27440

Printed: 2007.04.23 @ 13:12:41 Page 5



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **FMIL Natural Resources LLC**

410-17th St Ste 900
Denver CO 80202

ATTN: Cassandra Parks

21 8S 18W Rooks KS

Mosher # 12A-21-818

Start Date: 2007.04.22 @ 10:09:20

End Date: 2007.04.22 @ 15:35:50

Job Ticket #: 27441 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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WICHITA, KS

FMIL Natural Resources LLC

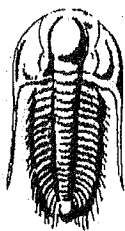
Mosher # 12A-21-818

21 8S 18W Rooks KS

DST # 2

Arbuckle

2007.04.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FVIL Natural Resources LLC

410-17th St Ste 900
Denver CO 80202

ATTN: Cassandra Parks

Mosher # 12A-21-818

21 8S 18W Rooks KS

Job Ticket: 27441

DST#: 2

Test Start: 2007.04.22 @ 10:09:20

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:34:50

Time Test Ended: 15:35:50

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 31

Interval: **3358.00 ft (KB) To 3420.00 ft (KB) (TVD)**

Total Depth: 3378.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1958.00 ft (KB)

1953.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6669

Inside

Press@RunDepth: 16.97 psig @ 3361.00 ft (KB)

Start Date: 2007.04.22

End Date:

2007.04.22

Start Time: 10:09:25

End Time:

15:35:49

Capacity: 7000.00 psig

Last Calib.: 2007.04.22

Time On Btm: 2007.04.22 @ 11:34:20

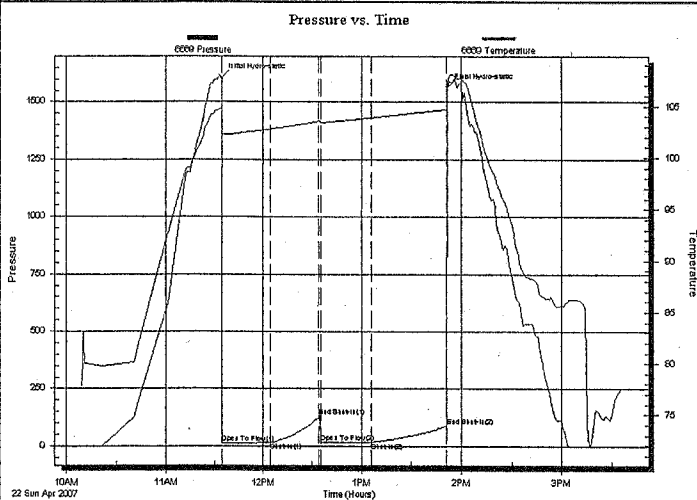
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TEST COMMENT: IF Weak Dead in 12 min.

ISI Dead

FF Dead

FSI Dead



PRESSURE SUMMARY

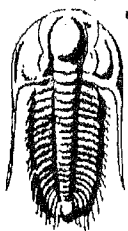
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1606.60	104.83	Initial Hydro-static
1	12.30	102.23	Open To Flow (1)
31	14.43	102.79	Shut-In(1)
60	129.43	103.56	End Shut-In(1)
61	15.39	103.37	Open To Flow (2)
92	16.97	103.88	Shut-In(2)
137	89.54	104.71	End Shut-In(2)
138	1565.51	107.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	D.Mud few Oil spots	0.02

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

FML Natural Resources LLC

Mosher # 12A-21-818

410-17th St Ste 900
Denver CO 80202

21 8S 18W Rooks KS

Job Ticket: 27441

DST#: 2

ATTN: Cassandra Parks

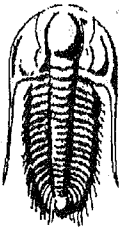
Test Start: 2007.04.22 @ 10:09:20

Tool Information

Drill Pipe:	Length:	3322.00 ft	Diameter:	3.80 inches	Volume:	46.60 bbl	Tool Weight:	2200.00 lb	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb	
Drill Collar:	Length:	28.00 ft	Diameter:	2.25 inches	Volume:	0.14 bbl	Weight to Pull Loose:	50000.00 lb	
						Total Volume:	46.74 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	12.00 ft						String Weight: Initial	44000.00 lb	
Depth to Top Packer:	3358.00 ft						Final	44000.00 lb	
Depth to Bottom Packer:	ft								
Interval between Packers:	62.00 ft								
Tool Length:	82.00 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			3339.00	
Shut In Tool	5.00			3344.00	
Hydraulic tool	5.00			3349.00	
Packer	4.00			3353.00	20.00 Bottom Of Top Packer
Packer	5.00			3358.00	
Stubb	1.00			3359.00	
Perforations	1.00			3360.00	
Change Over Sub	1.00			3361.00	
Recorder	0.00	6669	Inside	3361.00	
Blank Spacing	32.00			3393.00	
Change Over Sub	1.00			3394.00	
Recorder	0.00	11084	Outside	3394.00	
Perforations	23.00			3417.00	
Bullnose	3.00			3420.00	62.00 Bottom Packers & Anchor
Total Tool Length:		82.00			

JUL 10 2007



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

FML Natural Resources LLC

Mosher # 12A-21-818

410-17th St Ste 900
Denver CO 80202

21 8S 18W Rooks KS

Job Ticket: 27441

DST#: 2

ATTN: Cassandra Parks

Test Start: 2007.04.22 @ 10:09:20

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 8.38 in³

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	D.Mud few Oil spots	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

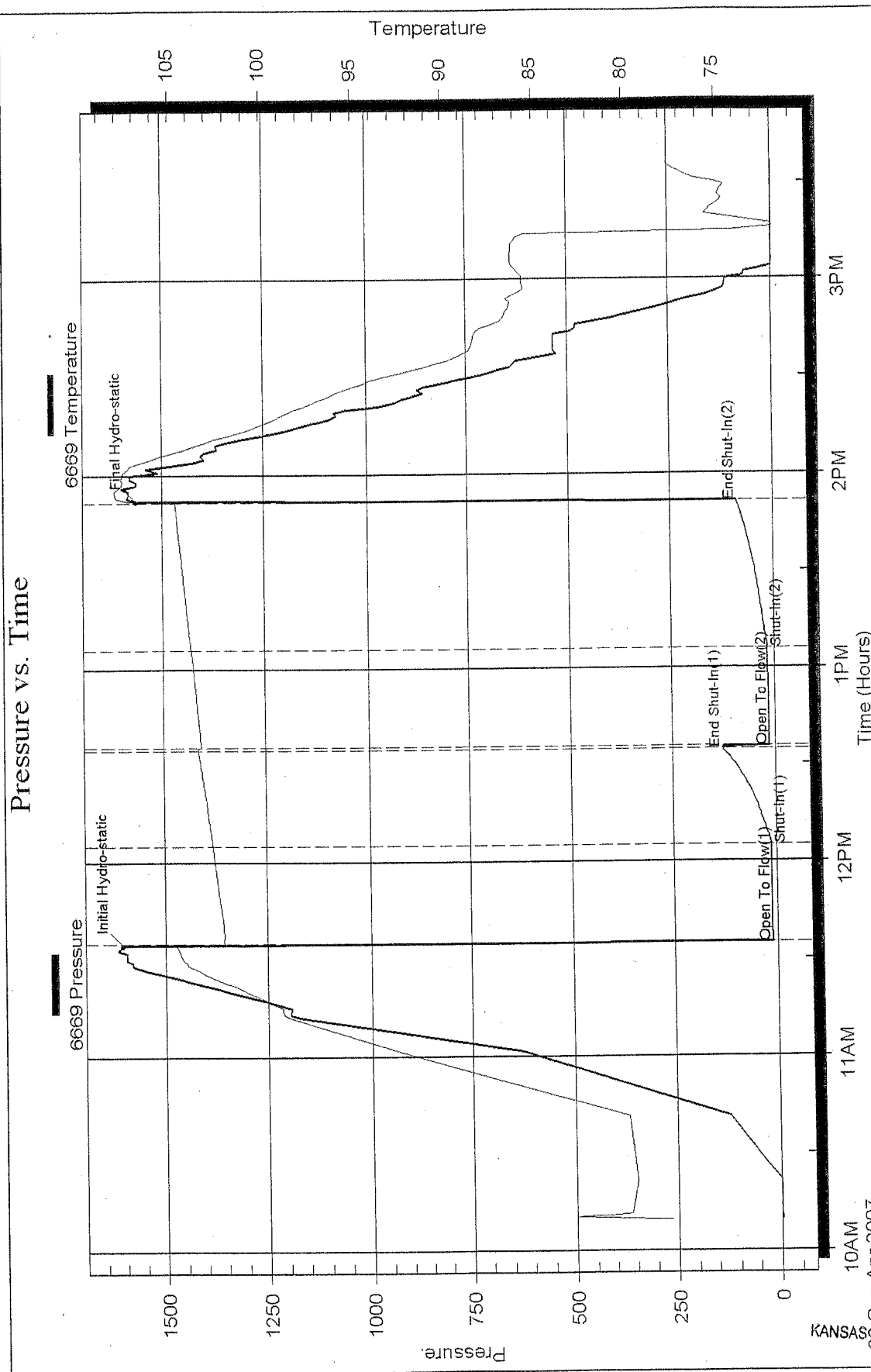
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



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2007 APR 10 10:00 AM
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