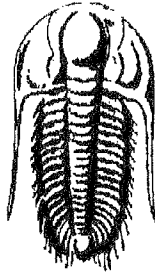


15-159-22577

30-19s-10w

IND



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Sam Gary & Associates Inc**

1560 Broadway Ste 2100
Denver Co 80202

ATTN: Tom Fertal

30-19-10-Rice-Ks

Gatton Corp # 1-30

Start Date: 2008.07.27 @ 10:21:43

End Date: 2008.07.27 @ 18:46:43

Job Ticket #: 32499 DST #: 1

**KCC
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CONFIDENTIAL**

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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

Sam Gary & Associates Inc

Gatton Corp # 1-30

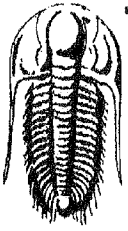
30-19-10-Rice-Ks

DST # 1

J

LKC

2008.07.27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Sam Gary & Associates Inc

Gatton Corp # 1-30

1560 Broadway Ste 2100
Denver Co 80202

30-19-10-Rice-Ks

Job Ticket: 32499

DST#: 1

ATTN: Tom Fertal

Test Start: 2008.07.27 @ 10:21:43

GENERAL INFORMATION:

Formation: **J LKC**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 12:52:13

Time Test Ended: 18:46:43

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: 3192.00 ft (KB) To 3219.00 ft (KB) (TVD)

Total Depth: 3219.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1780.00 ft (KB)

1771.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8372 Inside

Press@RunDepth: 25.98 psig @ 3193.00 ft (KB)

Start Date: 2008.07.27

End Date:

2008.07.27

Start Time: 10:21:44

End Time:

18:46:43

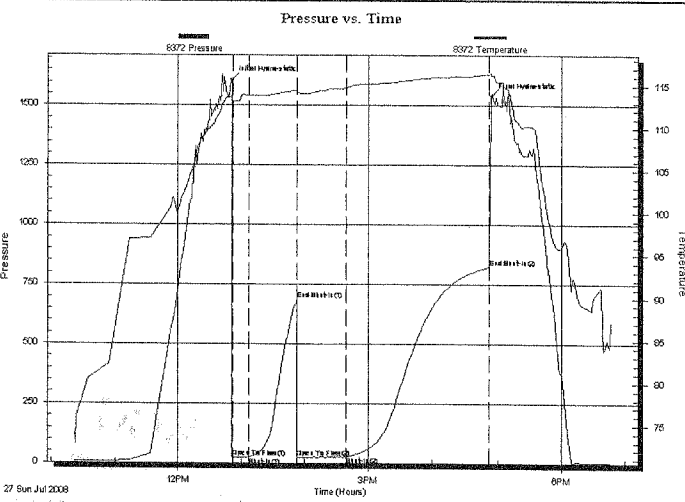
Capacity: 7000.00 psig

Last Calib.: 2008.07.27

Time On Btm: 2008.07.27 @ 12:51:13

Time Off Btm: 2008.07.27 @ 16:54:13

TEST COMMENT: IF-Weak steady surface blow
FF-No blow



PRESSURE SUMMARY

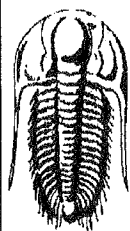
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1607.95	113.76	Initial Hydro-static
1	22.49	113.19	Open To Flow (1)
16	22.68	113.82	Shut-In(1)
62	684.25	114.42	End Shut-In(1)
62	23.88	114.00	Open To Flow (2)
108	25.98	114.73	Shut-In(2)
242	823.44	116.34	End Shut-In(2)
243	1540.12	116.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary & Associates Inc

Gatton Corp # 1-30

1560 Broadway Ste 2100
Denver Co 80202

30-19-10-Rice-Ks

Job Ticket: 32499

DST#: 1

ATTN: Tom Fertal

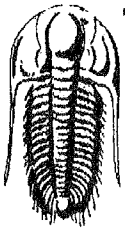
Test Start: 2008.07.27 @ 10:21:43

Tool Information

Drill Pipe:	Length: 3190.00 ft	Diameter: 3.80 inches	Volume: 44.75 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 44.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3192.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	56.00 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			3164.00	
Shut In Tool	5.00			3169.00	
Hydraulic tool	5.00			3174.00	
Jars	5.00			3179.00	
Safety Joint	3.00			3182.00	
Packer	5.00			3187.00	29.00 Bottom Of Top Packer
Packer	5.00			3192.00	
Stubb	1.00			3193.00	
Recorder	0.00	8372	Inside	3193.00	
Recorder	0.00	8368	Outside	3193.00	
Perforations	23.00			3216.00	
Bullnose	3.00			3219.00	27.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary & Associates Inc

Gatton Corp # 1-30

1560 Broadway Ste 2100
Denver Co 80202

30-19-10-Rice-Ks

Job Ticket: 32499

DST#: 1

ATTN: Tom Fertal

Test Start: 2008.07.27 @ 10:21:43

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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl

Total Length:

ft

Total Volume:

bbbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

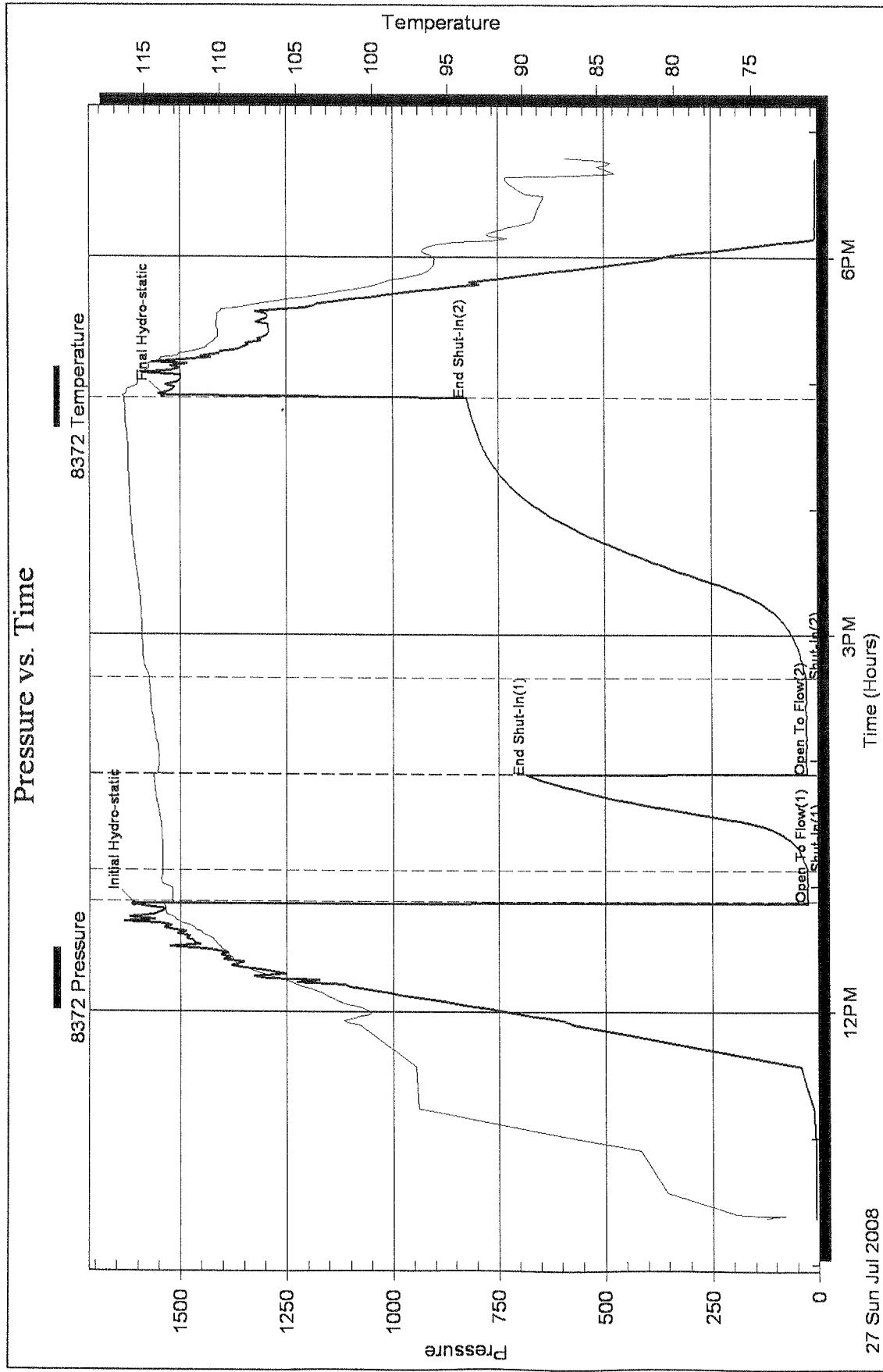
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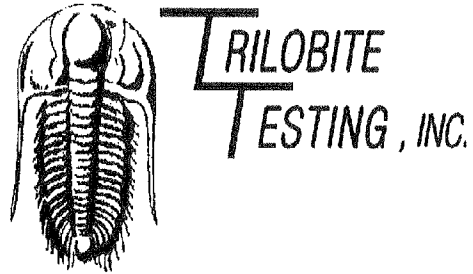
Sam Gary & Associates Inc

30-19-10-Rice-Ks

DST Test Number: 1

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Sam Gary & Associates Inc**

1560 Broadway Ste 2100
Denver Co 80202

ATTN: Tom Fertal

30-19-10-Rice-Ks

Gatton Corp # 1-30

Start Date: 2008.07.28 @ 12:44:31

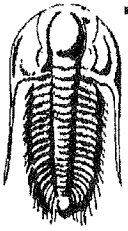
End Date: 2008.07.28 @ 22:19:01

Job Ticket #: 32500 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Sam Gary & Associates Inc

Gatton Corp # 1-30

1560 Broadway Ste 2100
Denver Co 80202

30-19-10-Rice-Ks

Job Ticket: 32500

DST#: 2

ATTN: Tom Fertal

Test Start: 2008.07.28 @ 12:44:31

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 14:56:31

Time Test Ended: 22:19:01

Test Type: Conventional Bottom Hole

Tester: Dan Bangle

Unit No: 38

Interval: **3282.00 ft (KB) To 3340.00 ft (KB) (TVD)**

Total Depth: 3340.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1780.00 ft (KB)

1771.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8372

Inside

Press@RunDepth: 434.62 psig @ 3285.00 ft (KB)

Start Date: 2008.07.28

End Date:

2008.07.28

Start Time: 12:44:32

End Time:

22:19:01

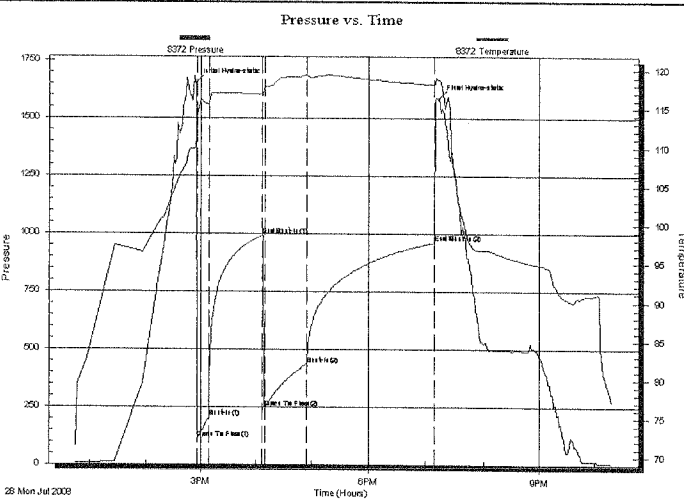
Capacity: 7000.00 psig

Last Calib.: 2008.07.28

Time On Btm: 2008.07.28 @ 14:55:01

Time Off Btm: 2008.07.28 @ 19:14:01

TEST COMMENT: IF-Strong B-B in 30 sec
IS-Strong B-B in 10 min
FF-Strong B-B in 30 sec
FS-Weak building to 3" died in 45 min



PRESSURE SUMMARY

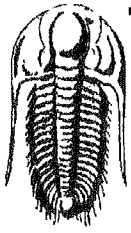
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.00	110.13	Initial Hydro-static
2	113.78	114.06	Open To Flow (1)
14	205.32	115.55	Shut-In(1)
72	990.39	116.83	End Shut-In(1)
75	246.62	117.81	Open To Flow (2)
120	434.62	119.41	Shut-In(2)
254	961.43	118.10	End Shut-In(2)
259	1586.83	118.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	Wtr	1.68
996.00	Silty MCGsyO 3% m 68% o 30% g	13.97
0.00	960 GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Sam Gary & Associates Inc

Gatton Corp # 1-30

1560 Broadway Ste 2100
Denver Co 80202

30-19-10-Rice-Ks

Job Ticket: 32500

DST#: 2

ATTN: Tom Fertal

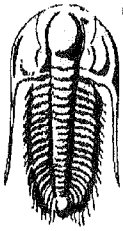
Test Start: 2008.07.28 @ 12:44:31

Tool Information

Drill Pipe:	Length: 3283.00 ft	Diameter: 3.80 inches	Volume: 46.05 bbl	Tool Weight: 2000.00 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 46.05 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3282.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	58.00 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
Change Over Sub	1.00			3254.00	
Shut In Tool	5.00			3259.00	
Hydraulic tool	5.00			3264.00	
Jars	5.00			3269.00	
Safety Joint	3.00			3272.00	
Packer	5.00			3277.00	29.00 Bottom Of Top Packer
Packer	5.00			3282.00	
Stubb	1.00			3283.00	
Perforations	1.00			3284.00	
Change Over Sub	1.00			3285.00	
Recorder	0.00	8372	Inside	3285.00	
Recorder	0.00	8368	Outside	3285.00	
Drill Pipe	31.00			3316.00	
Change Over Sub	1.00			3317.00	
Perforations	20.00			3337.00	
Bullnose	3.00			3340.00	58.00 Bottom Packers & Anchor
Total Tool Length:	87.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Sam Gary & Associates Inc

Gatton Corp # 1-30

1560 Broadway Ste 2100
Denver Co 80202

30-19-10-Rice-Ks

Job Ticket: 32500

DST#: 2

ATTN: Tom Fertal

Test Start: 2008.07.28 @ 12:44:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

25000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbl

Water Loss: 13.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Wtr	1.683
996.00	Sltly MCGsyO 3% _m 68% _o 30% _g	13.971
0.00	960 GIP	0.000

Total Length: 1116.00 ft

Total Volume: 15.654 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

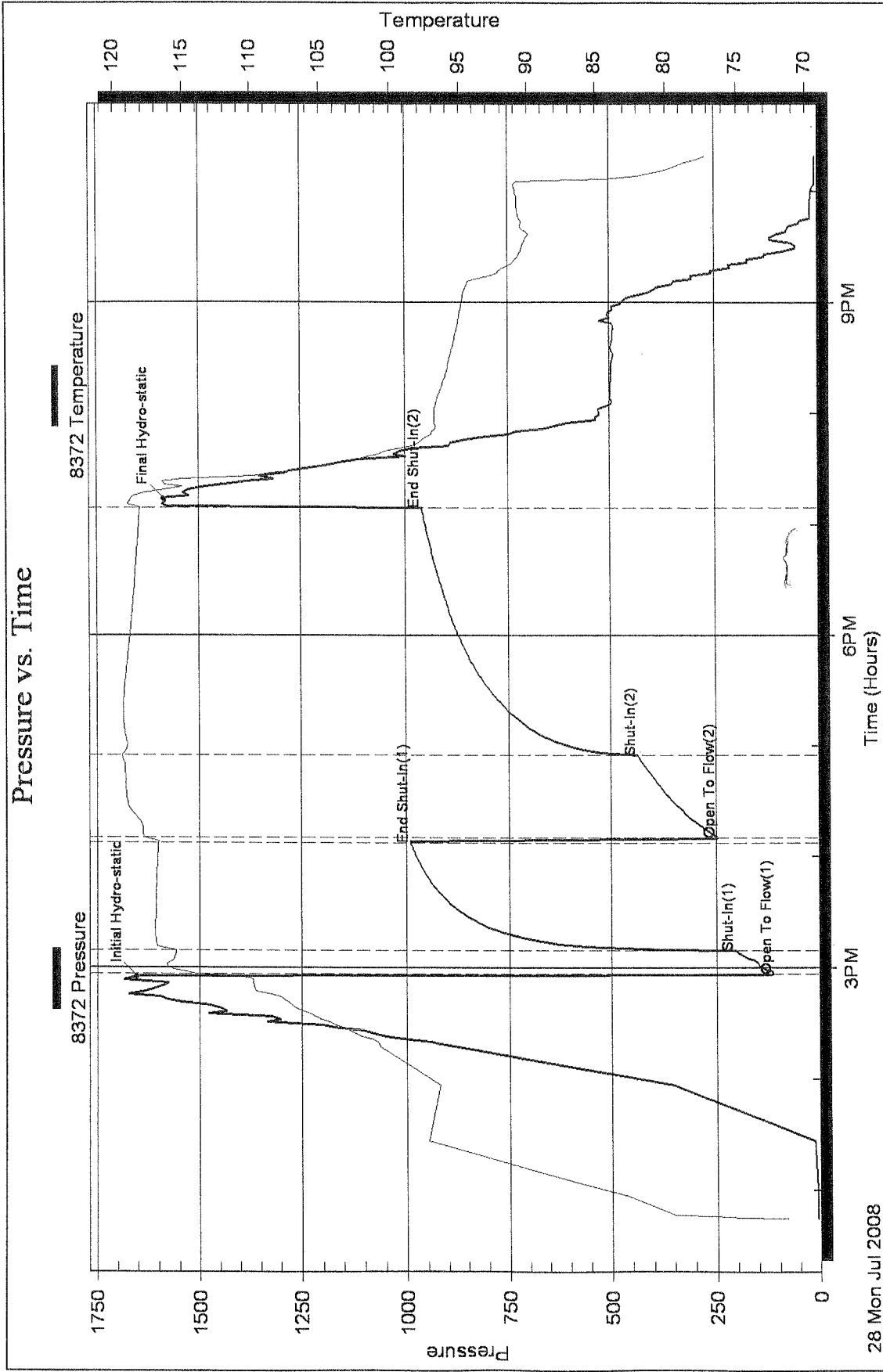
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Rw .27 @ 80 = 25000ppm

Pressure vs. Time



28 Mon Jul 2008

9PM

6PM

3PM

Time (Hours)