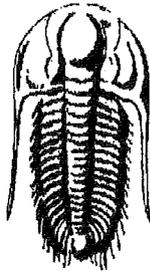


15-159-22558

And
17-18s-9w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1560 Broadway Ste 2100
Denver, Co 80202

ATTN: Justin Carter

CONFIDENTIAL
23 2008

9w
17 18 8W Rice KS

Beneke #2-17

Start Date: 2008.02.07 @ 07:20:16

End Date: 2008.02.07 @ 16:04:46

Job Ticket #: 31505 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Samuel Gary Jr & Associates

Beneke #2-17

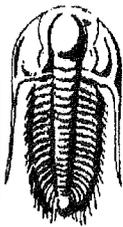
17 18 8W Rice KS

DST # 1

Arbuckle

2008.02.07

Range is 9, not 8 as printed.



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr & Associates

Beneke #2-17

1560 Broadway Ste 2100
Denver Co 80202

17 18 8W Rice KS

ATTN: Justin Carter

Job Ticket: 31505

DST#: 1

Test Start: 2008.02.07 @ 07:20:16

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:37:46

Time Test Ended: 16:04:46

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3224.00 ft (KB) To 3264.00 ft (KB) (TVD)**

Total Depth: 3264.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1736.00 ft (KB)

1730.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8320 Inside

Press@RunDepth: 238.45 psig @ 3228.00 ft (KB)

Start Date: 2008.02.07

End Date:

2008.02.07

Start Time: 07:20:17

End Time:

16:04:46

Capacity: 7000.00 psig

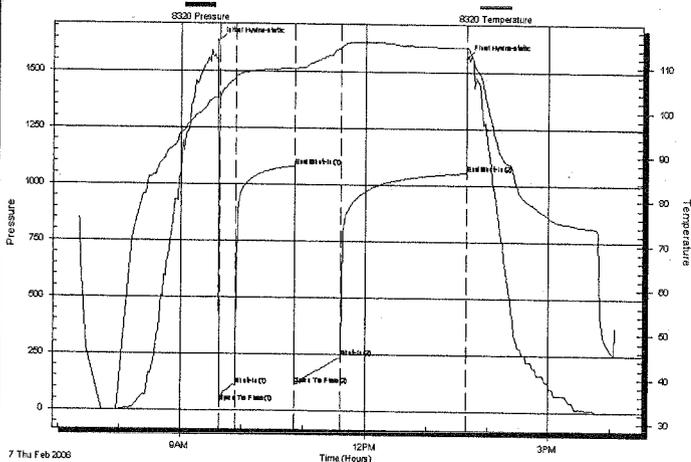
Last Calib.: 2008.02.07

Time On Btm: 2008.02.07 @ 09:36:46

Time Off Btm: 2008.02.07 @ 13:39:16

TEST COMMENT: IFP BOB in 9.5 min
ISI Weak surface blow back died in 40 min
FFP BOB in 8 min
FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

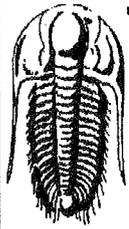
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1632.63	102.94	Initial Hydro-static
1	34.21	103.10	Open To Flow (1)
17	110.88	107.57	Shut-In(1)
75	1081.84	109.68	End Shut-In(1)
75	115.97	109.47	Open To Flow (2)
120	238.45	114.31	Shut-In(2)
242	1054.86	114.50	End Shut-In(2)
243	1563.05	114.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
165.00	GOCM 30%G 10%O 60%M	1.19
120.00	GOCM 30%G 20%O 50%M	1.70
360.00	GCO 40%G 60%O	5.10
0.00	300' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

Beneke #2-17

1560 Broadway Ste 2100
Denver Co 80202

17 18 8W Rice KS

Job Ticket: 31505

DST#: 1

ATTN: Justin Carter

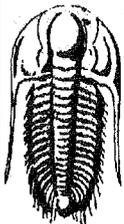
Test Start: 2008.02.07 @ 07:20:16

Tool Information

Drill Pipe:	Length: 3079.00 ft	Diameter: 3.82 inches	Volume: 43.65 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 55000.00 lb
		Total Volume:	44.26 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3224.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			3197.00	
Shut In Tool	5.00			3202.00	
Hydraulic tool	5.00			3207.00	
Jars	5.00			3212.00	
Safety Joint	2.00			3214.00	
Packer	5.00			3219.00	28.00 Bottom Of Top Packer
Packer	5.00			3224.00	
Stubb	1.00			3225.00	
Perforations	2.00			3227.00	
Change Over Sub	1.00			3228.00	
Recorder	0.00	8367	Inside	3228.00	
Recorder	0.00	8320	Inside	3228.00	
Blank Spacing	30.00			3258.00	
Change Over Sub	1.00			3259.00	
Perforations	2.00			3261.00	
Bullnose	3.00			3264.00	40.00 Bottom Packers & Anchor
Total Tool Length:	68.00				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

Beneke #2-17

1560 Broadway Ste 2100
Denver Co 80202

17 18 8W Rice KS

ATTN: Justin Carter

Job Ticket: 31505

DST#: 1

Test Start: 2008.02.07 @ 07:20:16

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 44.00 sec/qt

Water Loss: 7.97 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

43 deg API

Water Salinity:

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
165.00	GOCM 30%G 10%O 60%M	1.191
120.00	GOCM 30%G 20%O 50%M	1.701
360.00	GCO 40%G 60%O	5.103
0.00	300' GIP	0.000

Total Length: 645.00 ft

Total Volume: 7.995 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

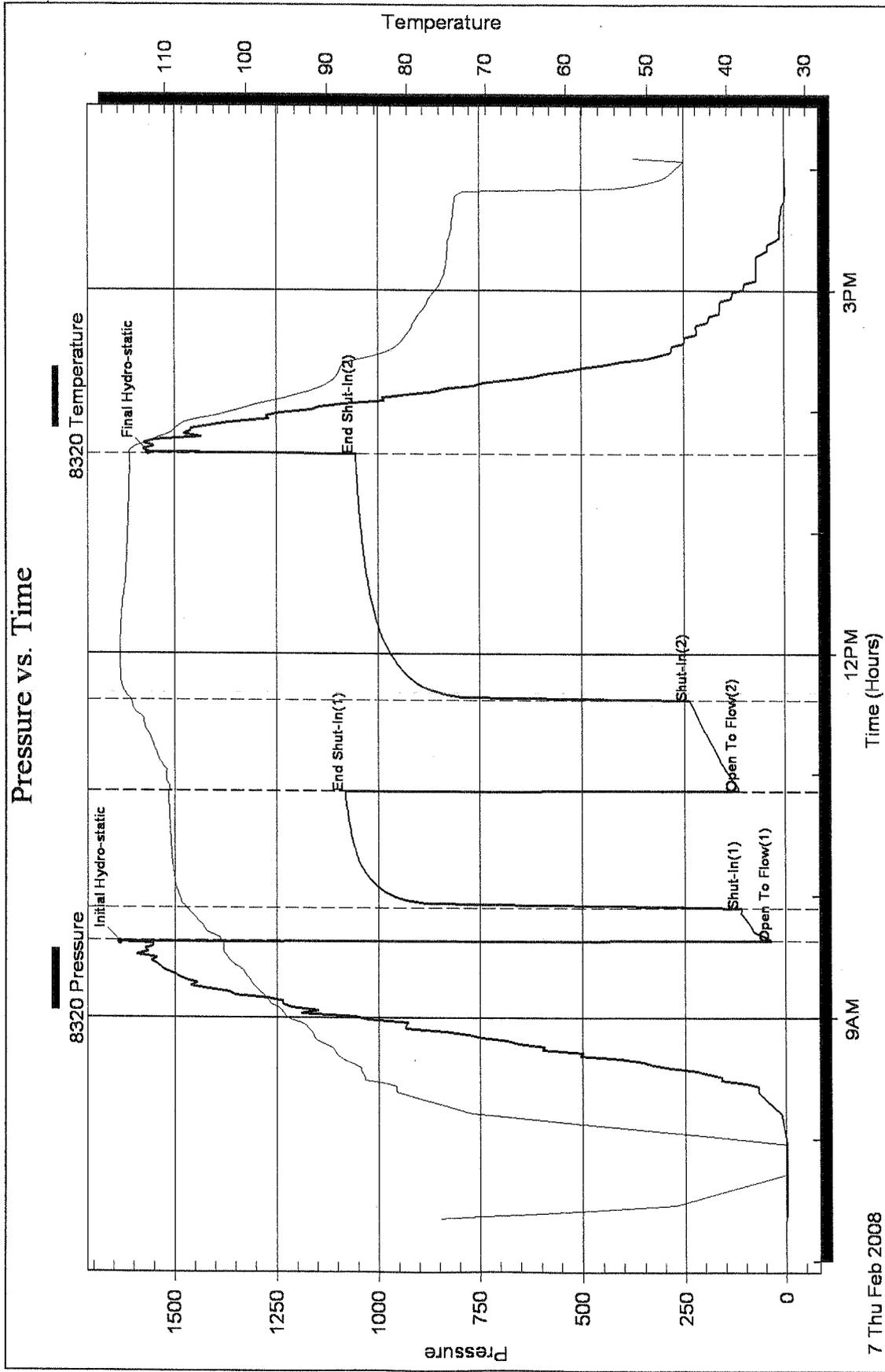
Serial #:

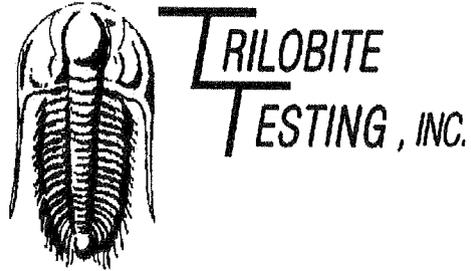
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Samuel Gary Jr & Associates**

1560 Broadway Ste 2100
Denver Co 80202

ATTN: Justin Carter

17 18 8W Rice KS

Beneke #2-17

Start Date: 2008.02.07 @ 22:30:19

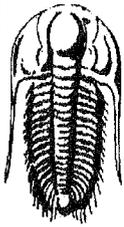
End Date: 2008.02.08 @ 07:37:19

Job Ticket #: 31506 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

Samuel Gary Jr & Associates

Beneke #2-17

1560 Broadway Ste 2100
Denver Co 80202

17 18 8W Rice KS

Job Ticket: 31506

DST#: 2

ATTN: Justin Carter

Test Start: 2008.02.07 @ 22:30:19

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:39:49

Time Test Ended: 07:37:19

Test Type: Conventional Bottom Hole

Tester: Tyson Flax

Unit No: 21

Interval: **3264.00 ft (KB) To 3272.00 ft (KB) (TVD)**

Total Depth: 3272.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1736.00 ft (KB)

1730.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8320

Inside

Press@RunDepth: 168.08 psig @ 3269.00 ft (KB)

Start Date: 2008.02.07

End Date:

2008.02.08

Start Time: 22:30:20

End Time:

07:37:19

Capacity: 7000.00 psig

Last Calib.: 2008.02.08

Time On Btm: 2008.02.08 @ 01:39:19

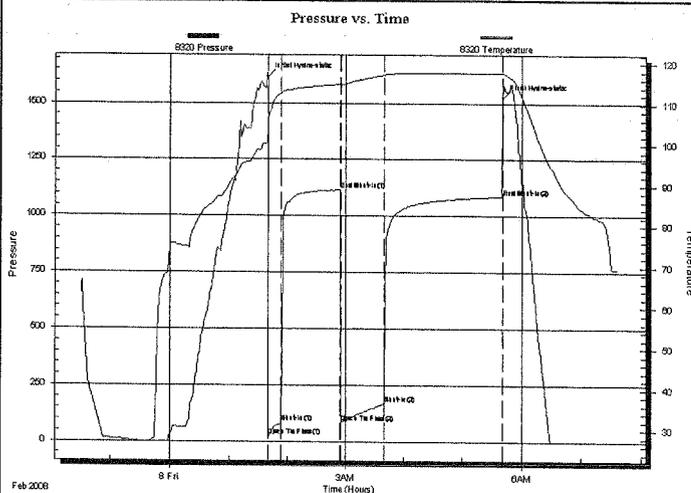
Time Off Btm: 2008.02.08 @ 05:41:19

TEST COMMENT: IFP Weak blow built to 8"

ISI Weak surface blow back died in 5 min

FFP BOB in 16 min

FSI No blow back



PRESSURE SUMMARY

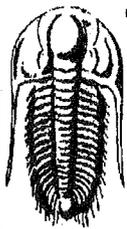
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1617.53	104.38	Initial Hydro-static
1	23.93	106.39	Open To Flow (1)
14	81.74	112.65	Shut-In(1)
75	1114.92	114.82	End Shut-In(1)
76	84.60	114.72	Open To Flow (2)
121	168.08	117.16	Shut-In(2)
242	1087.39	117.55	End Shut-In(2)
242	1524.77	117.63	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl.)
180.00	Water	1.40
120.00	MW 10%M 90%W	1.70
20.00	MW w/scum of Oil 30%M 70%W	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Samuel Gary Jr & Associates

Beneke #2-17

1560 Broadway Ste 2100
Denver Co 80202

17 18 8W Rice KS

Job Ticket: 31506

DST#: 2

ATTN: Justin Carter

Test Start: 2008.02.07 @ 22:30:19

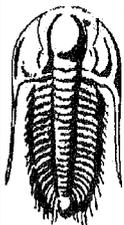
Tool Information

Drill Pipe:	Length: 3141.00 ft	Diameter: 3.82 inches	Volume: 44.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 60000.00 lb
		<u>Total Volume:</u>	<u>45.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3264.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	31.00 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			3242.00	
Shut In Tool	5.00			3247.00	
Hydraulic tool	5.00			3252.00	
Jars	5.00			3257.00	
Safety Joint	2.00			3259.00	
Packer	5.00			3264.00	23.00 Bottom Of Top Packer
Stubb	1.00			3265.00	
Perforations	4.00			3269.00	
Recorder	0.00	8367	Inside	3269.00	
Recorder	0.00	8320	Inside	3269.00	
Bullnose	3.00			3272.00	8.00 Anchor Tool

Total Tool Length: 31.00



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr & Associates

Beneke #2-17

1560 Broadway Ste 2100
Denver Co 80202

17 18 8W Rice KS

ATTN: Justin Carter

Job Ticket: 31506

DST#: 2

Test Start: 2008.02.07 @ 22:30:19

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 46.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 5900.00 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

18000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Water	1.404
120.00	MW 10%M 90%W	1.701
20.00	MW w/scum of Oil 30%M 70%W	0.284

Total Length: 320.00 ft

Total Volume: 3.389 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

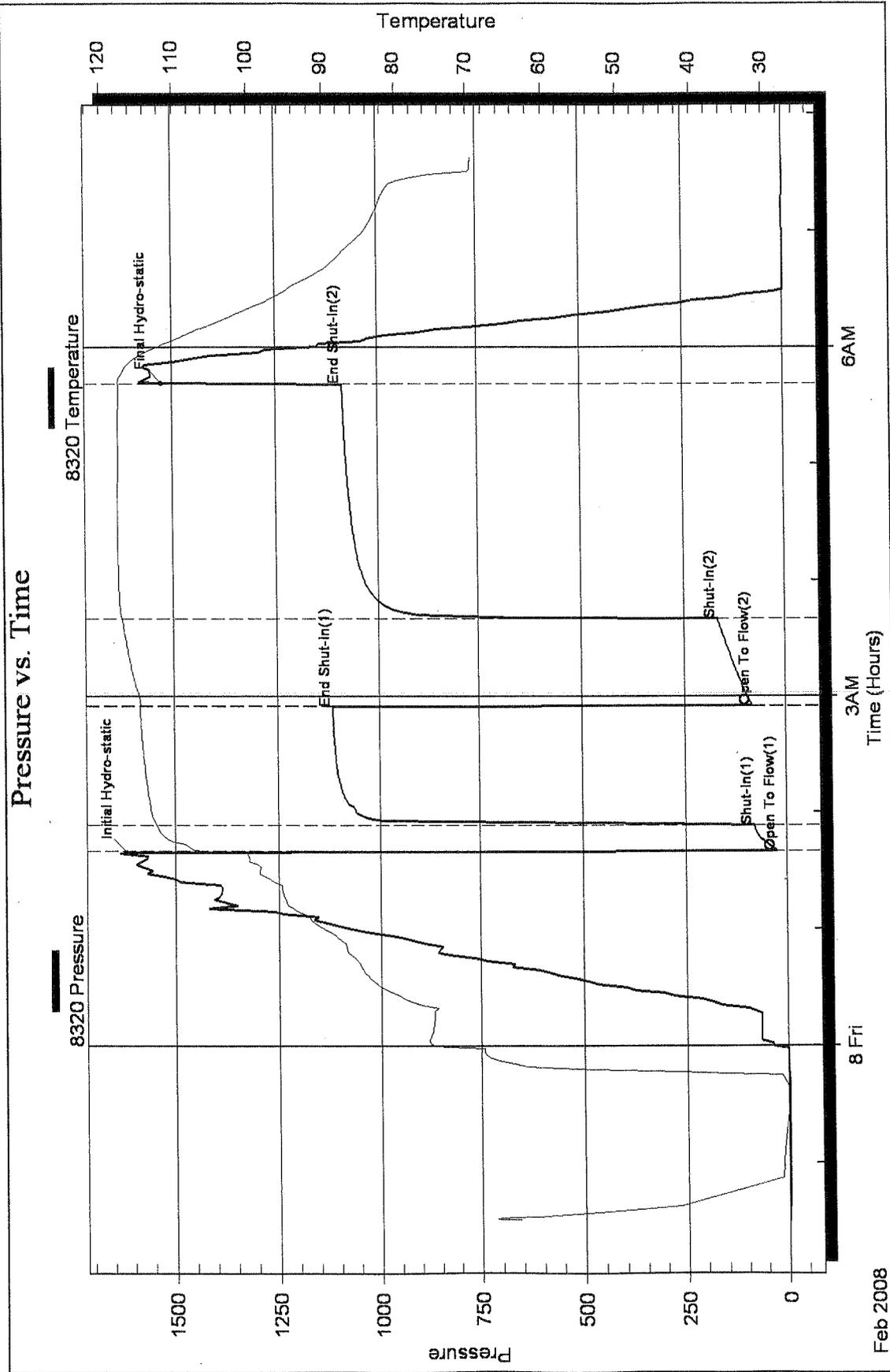
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Feb 2008

6AM

3AM

8 Fri

Time (Hours)