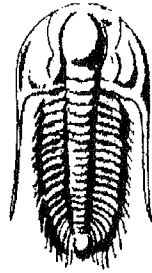


23-14s-21w



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson**

PO BOX 372
Hays Ks 67601

ATTN: Ron Nelson

23-14s-21w-Trego

Dinkle 1-23

Start Date: 2005.11.22 @ 01:10:26

End Date: 2005.11.22 @ 06:12:11

Job Ticket #: 23349 DST #: 1

15-195-22311-00-00

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KCC WICHITA

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing Nelson

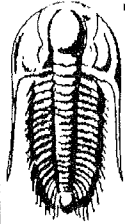
Dinkle 1-23

23-14s-21w-Trego

DST # 1

Marmaton

2005.11.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson

Dinkle 1-23

PO BOX 372
Hays Ks 67601

23-14s-21w-Trego

ATTN: Ron Nelson

Job Ticket: 23349

DST#: 1

Test Start: 2005.11.22 @ 01:10:26

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 06:12:11

Test Type: Conventional Bottom Hole

Tester: Joe

Unit No: 13

Interval: **3848.00 ft (KB) To 3930.00 ft (KB) (TVD)**

Total Depth: 3930.00 ft (KB) (TVD)

Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2216.00 ft (KB)

2206.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6799**

Inside

Press@RunDepth: psig @ 3850.00 ft (KB)

Start Date: 2005.11.22

Start Time: 01:10:27

End Date:

End Time:

2005.11.22

06:12:11

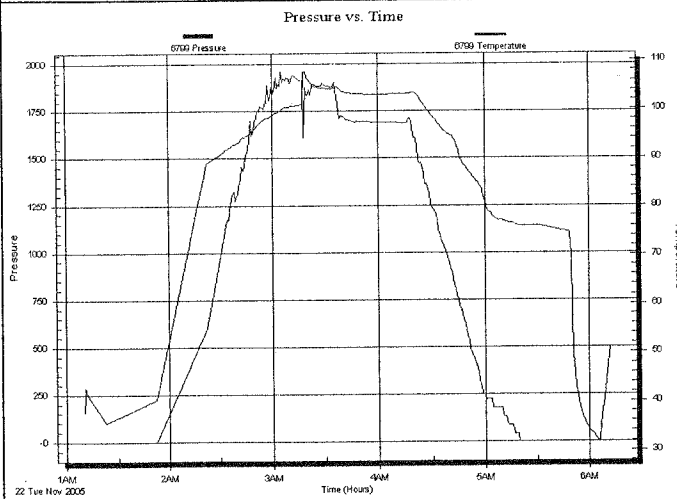
Capacity: 7000.00 psig

Last Calib.: 2005.11.22

Time On Btm

Time Off Btm

TEST COMMENT: PACKER FAILURE



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

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

Dow ning Nelson

Dinkle 1-23

PO BOX 372
Hays Ks 67601

23-14s-21w-Trego

Job Ticket: 23349

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.11.22 @ 01:10:26

Tool Information

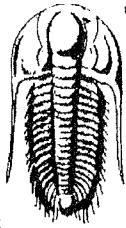
Drill Pipe:	Length: 3800.00 ft	Diameter: 3.80 inches	Volume: 53.30 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 53.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3848.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	82.00 ft			
Tool Length:	102.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3833.00	
Hydraulic tool	5.00			3838.00	
Packer	5.00			3843.00	20.00 Bottom Of Top Packer
Packer	5.00			3848.00	
Stubb	1.00			3849.00	
Change Over Sub	1.00			3850.00	
Recorder	0.00	6799	Inside	3850.00	
Blank Spacing	63.00			3913.00	
Change Over Sub	1.00			3914.00	
Perforations	13.00			3927.00	
Recorder	0.00	13548	Inside	3927.00	
Bullnose	3.00			3930.00	82.00 Bottom Packers & Anchor

Total Tool Length: 102.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson

Dinkle 1-23

PO BOX 372
Hays Ks 67601

23-14s-21w-Trego

Job Ticket: 23349

DST#: 1

ATTN: Ron Nelson

Test Start: 2005.11.22 @ 01:10:26

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:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:

ft

Total Volume:

bbl

Num Fluid Samples: 0

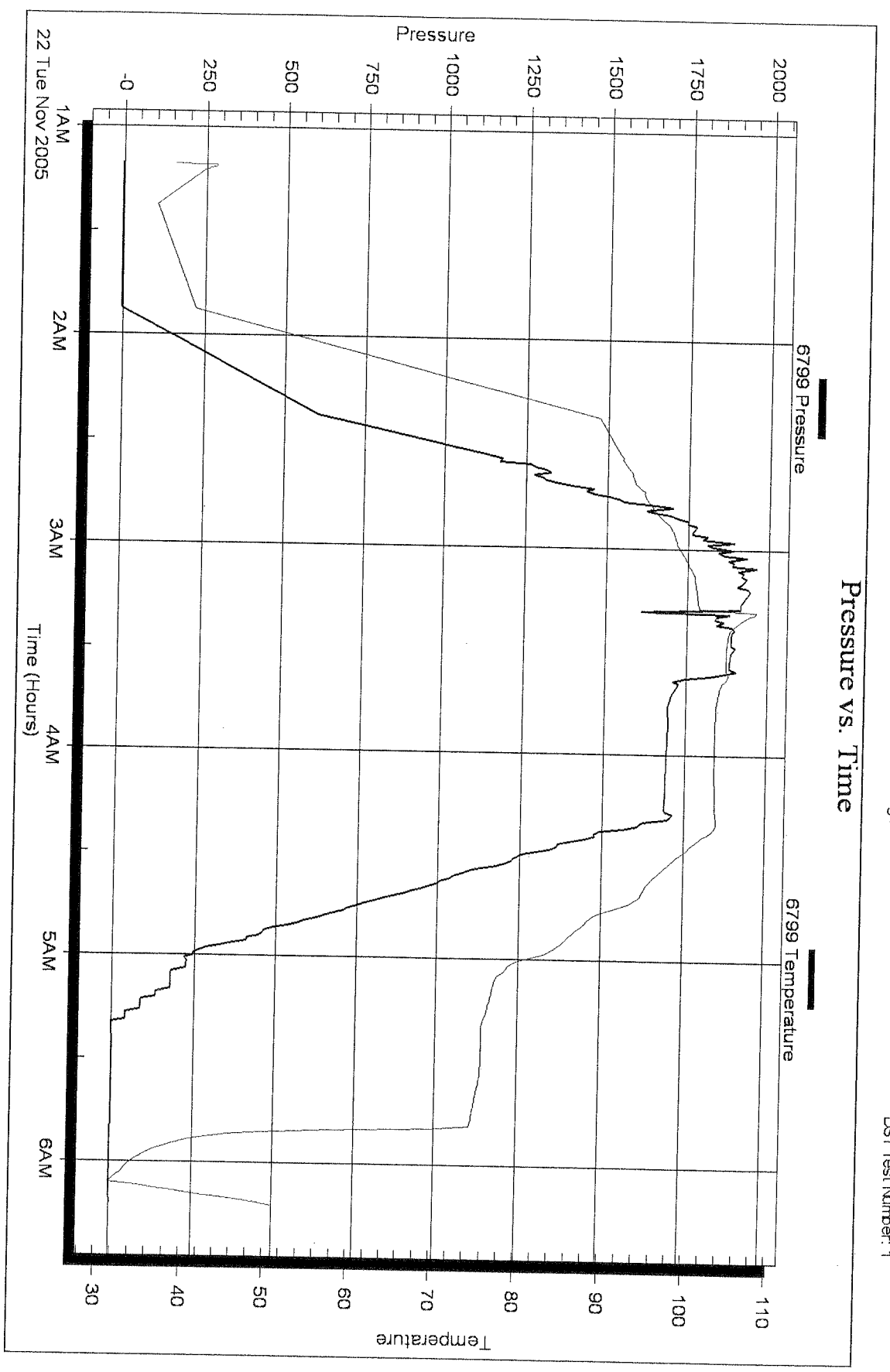
Num Gas Bombs: 0

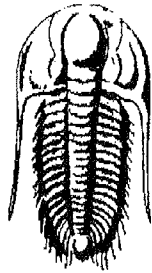
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Downing Nelson**

PO BOX 372
Hays Ks 67601

ATTN: Ron Nelson

23-14s-21w-Trego

Dinkle 1-23

Start Date: 2005.11.23 @ 06:27:50

End Date: 2005.11.23 @ 12:21:32

Job Ticket #: 23350 DST #: 2

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

Downing Nelson

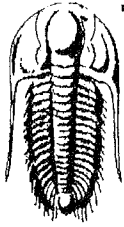
Dinkle 1-23

23-14s-21w-Trego

DST # 2

Marmatin

2005.11.23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson

Dinkle 1-23

PO BOX 372
Hays Ks 67601

23-14s-21w-Trego

Job Ticket: 23350

DST#: 2

ATTN: Ron Nelson

Test Start: 2005.11.23 @ 06:27:50

GENERAL INFORMATION:

Formation: **Marmatin**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:16:17
 Time Test Ended: 12:21:32

Test Type: Conventional Straddle
 Tester: Joe
 Unit No: 13

Interval: **3889.00 ft (KB) To 3908.00 ft (KB) (TVD)**
 Total Depth: 4100.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2216.00 ft (KB)
 2206.00 ft (CF)
 KB to GR/CF: 10.00 ft

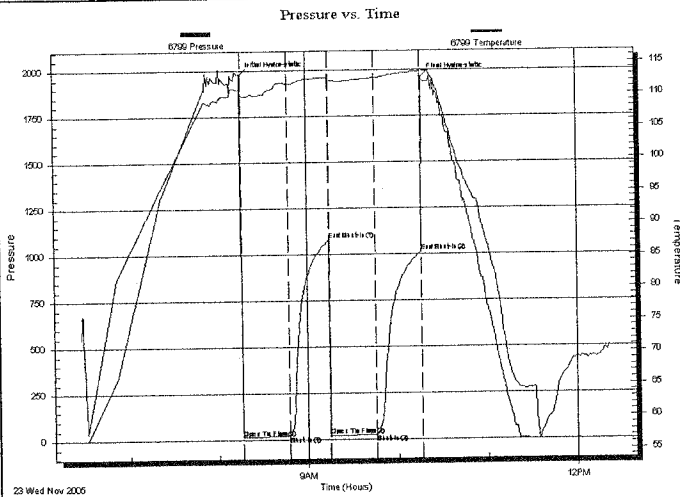
Serial #: 6799

Inside

Press@RunDepth: 26.56 psig @ 3890.00 ft (KB)
 Start Date: 2005.11.23 End Date: 2005.11.23
 Start Time: 06:27:51 End Time: 12:21:32

Capacity: 7000.00 psig
 Last Calib.: 2005.11.23
 Time On Btm: 2005.11.23 @ 08:16:02
 Time Off Btm: 2005.11.23 @ 10:16:17

TEST COMMENT: IF: Weak surface Blow built to 1"
 IS: No blow back
 FF: Weak surface blow
 FS: No blow back



PRESSURE SUMMARY

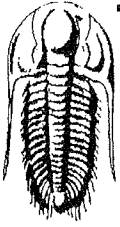
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1976.10	110.72	Initial Hydro-static
1	14.48	109.85	Open To Flow (1)
32	21.43	111.69	Shut-In(1)
59	1077.31	112.58	End Shut-In(1)
60	21.29	112.21	Open To Flow (2)
89	26.56	112.54	Shut-In(2)
120	1009.68	113.51	End Shut-In(2)
121	1959.19	113.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Watery Mud 10% W 90% M	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson

Dinkle 1-23

PO BOX 372
Hays Ks 67601

23-14s-21w-Trego

Job Ticket: 23350

DST#: 2

ATTN: Ron Nelson

Test Start: 2005.11.23 @ 06:27:50

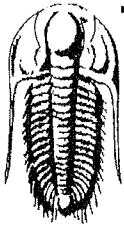
Tool Information

Drill Pipe:	Length: 3860.00 ft	Diameter: 3.80 inches	Volume: 54.15 bbl	Tool Weight: 2000.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 54.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3889.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	3902.00 ft			
Interval between Packers:	13.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3874.00	
Hydraulic tool	5.00			3879.00	
Packer	5.00			3884.00	20.00 Bottom Of Top Packer
Packer	5.00			3889.00	
Stubb	1.00			3890.00	
Recorder	0.00	6799	Inside	3890.00	
Perforations	11.00			3901.00	
Recorder	0.00	13760	Inside	3901.00	
Blank Off Sub	1.00			3902.00	13.00 Tool Interval
Packer	6.00			3908.00	
Recorder	0.00	13548	Inside	3908.00	6.00 Bottom Packers & Anchor

Total Tool Length: 39.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson

Dinkle 1-23

PO BOX 372
Hays Ks 67601

23-14s-21w-Trego

Job Ticket: 23350

DST#: 2

ATTN: Ron Nelson

Test Start: 2005.11.23 @ 06:27:50

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: 47.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	WateryMud10%W90%M	0.098

Total Length: 20.00 ft

Total Volume: 0.098 bbl

Num Fluid Samples: 0

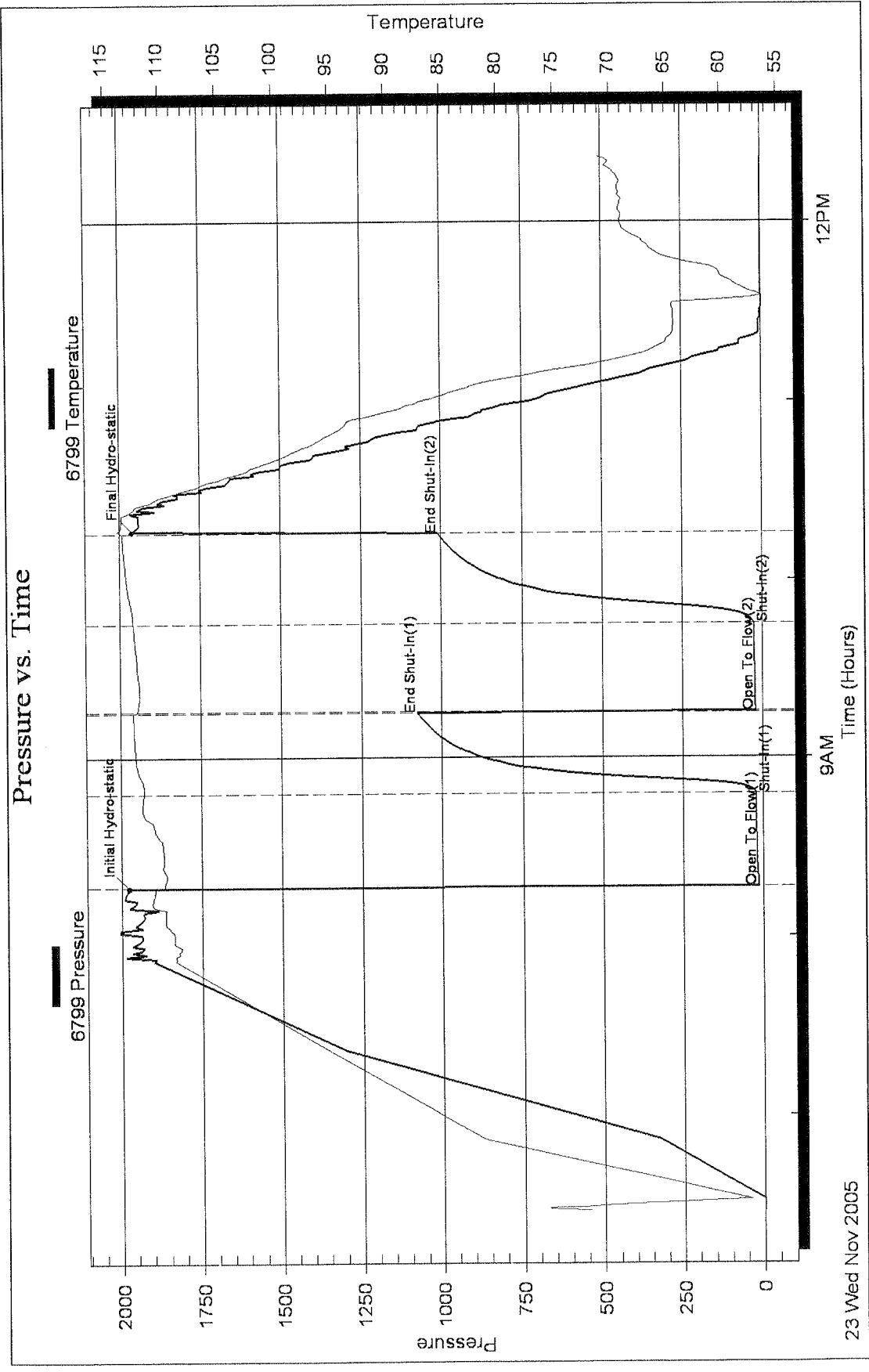
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



23 Wed Nov 2005