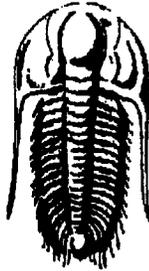


15-083-21603

26-21s-25w

IND



**TRILOBITE**  
**TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior**

PO Box 399  
Garden City, KS 67846

**CONFIDENTIAL**

OCT 28 2009

**KCC**

ATTN: Jason Alm

26 21 25<sup>w</sup> Hodgeman KS

**Wright J #5-26**

Start Date: 2009.08.04 @ 05:15:33

End Date: 2009.08.04 @ 11:36:33

Job Ticket #: 36027                      DST #: 1

RECEIVED  
OCT 29 2009  
KCC WICHITA

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

American Warrior

Wright J #5-26

26 21 25<sup>w</sup> Hodgeman KS

DST # 1

Miss

2009.08.04



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

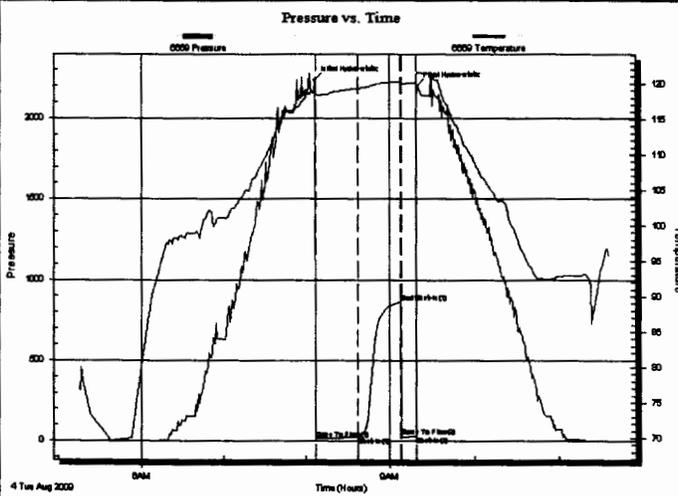
**Wright J #5-26**  
**26 21 25 Hodgeman KS**  
Job Ticket: 36027      DST#: 1  
Test Start: 2009.08.04 @ 05:15:33

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No    Whipstock:                      ft (KB)      Test Type: Conventional Bottom Hole  
Time Tool Opened: 08:07:33      Tester: Tyson Flax  
Time Test Ended: 11:36:33      Unit No: 44  
Interval: **4529.00 ft (KB) To 4553.00 ft (KB) (TVD)**      Reference Elevations: 2433.00 ft (KB)  
Total Depth: 4553.00 ft (KB) (TVD)      2422.00 ft (CF)  
Hole Diameter: 7.88 inches    Hole Condition: Good      KB to GR/CF: 11.00 ft

**Serial #: 6669      Inside**  
Press@RunDepth: 23.88 psig @ 4530.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2009.08.04      End Date: 2009.08.04      Last Calib.: 2009.08.04  
Start Time: 05:15:34      End Time: 11:36:33      Time On Btrm: 2009.08.04 @ 08:07:03  
Time Off Btrm: 2009.08.04 @ 09:20:03

**TEST COMMENT:** IFP-Weak surface blow died in 2 min  
ISL-no blow back  
FFP-no blow-pulled test  
FSI-



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2234.85	119.00	Initial Hydro-static
1	14.78	118.58	Open To Flow (1)
31	23.88	119.33	Shut-In(1)
62	861.54	120.32	End Shut-In(1)
62	28.14	120.09	Open To Flow (2)
72	28.46	120.20	Shut-In(2)
73	2200.91	121.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 40%O,60%M	0.07

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**Wright J #5-26**  
**26 21 25 Hodgeman KS**  
Job Ticket: 36027      DST#: 1  
Test Start: 2009.08.04 @ 05:15:33

**Tool Information**

Drill Pipe:	Length: 4211.00 ft	Diameter: 3.82 inches	Volume: 59.69 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: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 61.21 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4529.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	53.00 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			4501.00	
Shut In Tool	5.00			4506.00	
Hydraulic tool	5.00			4511.00	
Jars	5.00			4516.00	
Safety Joint	3.00			4519.00	
Packer	5.00			4524.00	29.00      Bottom Of Top Packer
Packer	5.00			4529.00	
Stubb	1.00			4530.00	
Recorder	0.00	6719	Inside	4530.00	
Recorder	0.00	6669	Inside	4530.00	
Perforations	20.00			4550.00	
Bullnose	3.00			4553.00	24.00      Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

**Wright J #5-26**  
**26 21 25 Hodgeman KS**  
Job Ticket: 36027      **DST#: 1**  
Test Start: 2009.08.04 @ 05:15:33

### Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.38 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3500.00 ppm				
Filter Cake:	inches				

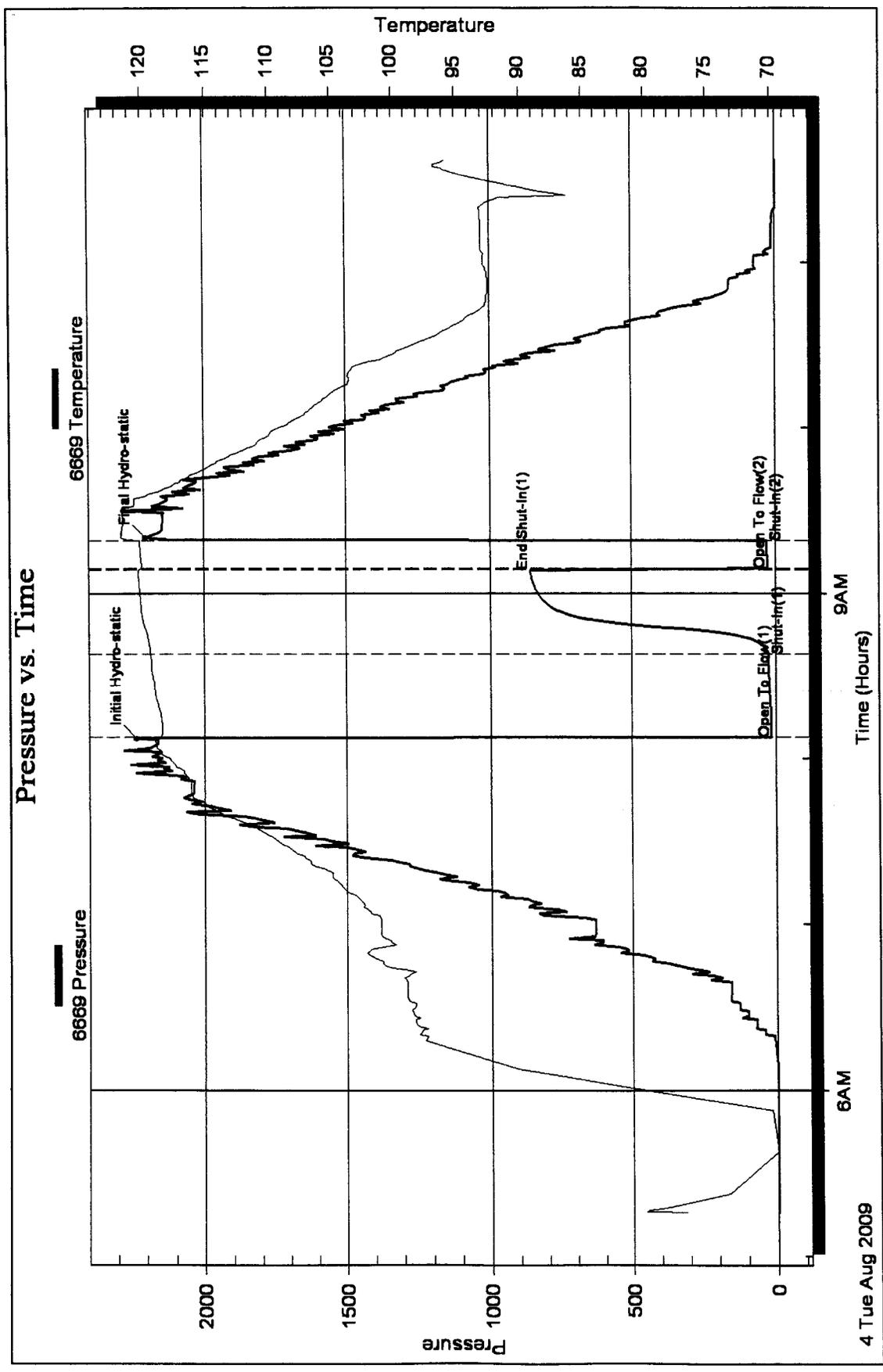
### Recovery Information

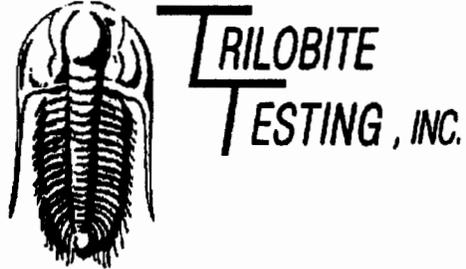
Recovery Table

Length ft	Description	Volume bbbl
15.00	HOCM 40%O,60%M	0.074

Total Length: 15.00 ft      Total Volume: 0.074 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: **American Warrior**  
PO Box 399  
Garden City, KS 67846

ATTN: Jason Alm

**26 21 25 Hodgeman KS**

**Wright J #5-26**

Start Date: 2009.08.04 @ 18:00:27

End Date: 2009.08.05 @ 01:34:57

Job Ticket #: 36028                      DST #: 2

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior  
PO Box 399  
Garden City, KS 67846  
ATTN: Jason Alm

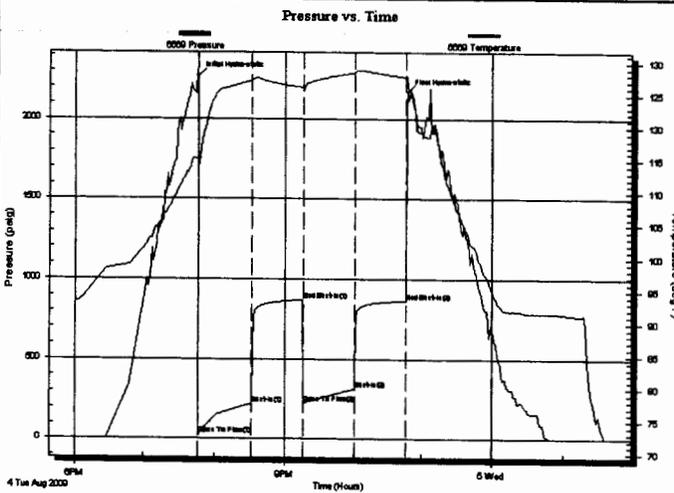
**Wright J #5-26**  
**26 21 25 Hodgeman KS**  
Job Ticket: 36028 **DST#: 2**  
Test Start: 2009.08.04 @ 18:00:27

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:46:12  
Time Test Ended: 01:34:57  
Interval: **4546.00 ft (KB) To 4561.00 ft (KB) (TVD)**  
Total Depth: 4561.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole  
Tester: Tyson Flax  
Unit No: 44  
Reference Elevations: 2433.00 ft (KB)  
2422.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 6669** Inside  
Press@RunDepth: 312.56 psig @ 4547.00 ft (KB)  
Start Date: 2009.08.04 End Date: 2009.08.05  
Start Time: 18:00:28 End Time: 01:34:57  
Capacity: 7000.00 psig  
Last Calib.: 2009.08.05  
Time On Btrc: 2009.08.04 @ 19:45:57  
Time Off Btrc: 2009.08.04 @ 22:47:42

**TEST COMMENT:** IFF-BOB in 18 min  
ISI-Weak surface blow back died in 35 min  
FFP-BOB in 26 min  
FSI-Weak surface blow back died in 22 min



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2268.26	115.12	Initial Hydro-static
1	24.73	113.91	Open To Flow (1)
46	219.57	127.24	Shut-In (1)
90	868.06	126.19	End Shut-In (1)
90	223.25	126.03	Open To Flow (2)
135	312.56	128.44	Shut-In (2)
181	863.89	127.79	End Shut-In (2)
182	2168.49	126.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	SOCMW 5%O,90%W,5%M	1.18
300.00	SOCMW 10%O,80%W,10%M	3.61
75.00	OCWM 20%O,30%W,50%M	1.06
10.00	CO	0.14
0.00	155' GP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior

**Wright J #5-26**

PO Box 399  
Garden City, KS 67846

**26 21 25 Hodgeman KS**

Job Ticket: 36028      DST#: 2

ATTN: Jason Alm

Test Start: 2009.08.04 @ 18:00:27

**Tool Information**

Drill Pipe:	Length: 4211.00 ft	Diameter: 3.82 inches	Volume: 59.69 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: 309.00 ft	Diameter: 2.25 inches	Volume: 1.52 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.21 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4546.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	44.00 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			4518.00	
Shut In Tool	5.00			4523.00	
Hydraulic tool	5.00			4528.00	
Jars	5.00			4533.00	
Safety Joint	3.00			4536.00	
Packer	5.00			4541.00	29.00      Bottom Of Top Packer
Packer	5.00			4546.00	
Stubb	1.00			4547.00	
Recorder	0.00	6719	inside	4547.00	
Recorder	0.00	6669	inside	4547.00	
Perforations	11.00			4558.00	
Bullnose	3.00			4561.00	15.00      Bottom Packers & Anchor

**Total Tool Length: 44.00**



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior

**Wright J #5-26**

PO Box 399  
Garden City, KS 67846

**26 21 25 Hodgeman KS**

Job Ticket: 36028

**DST#: 2**

ATTN: Jason Alm

Test Start: 2009.08.04 @ 18:00:27

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

17000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.37 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	SOCMW 5%O,90%W,5%M	1.180
300.00	SOCMW 10%O,80%W,10%M	3.614
75.00	OCWM 20%O,30%W,50%M	1.063
10.00	CO	0.142
0.00	155' GIP	0.000

Total Length: 625.00 ft

Total Volume: 5.999 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .40@ 71F = 17000 ppm chlorides

Serial #: 6669

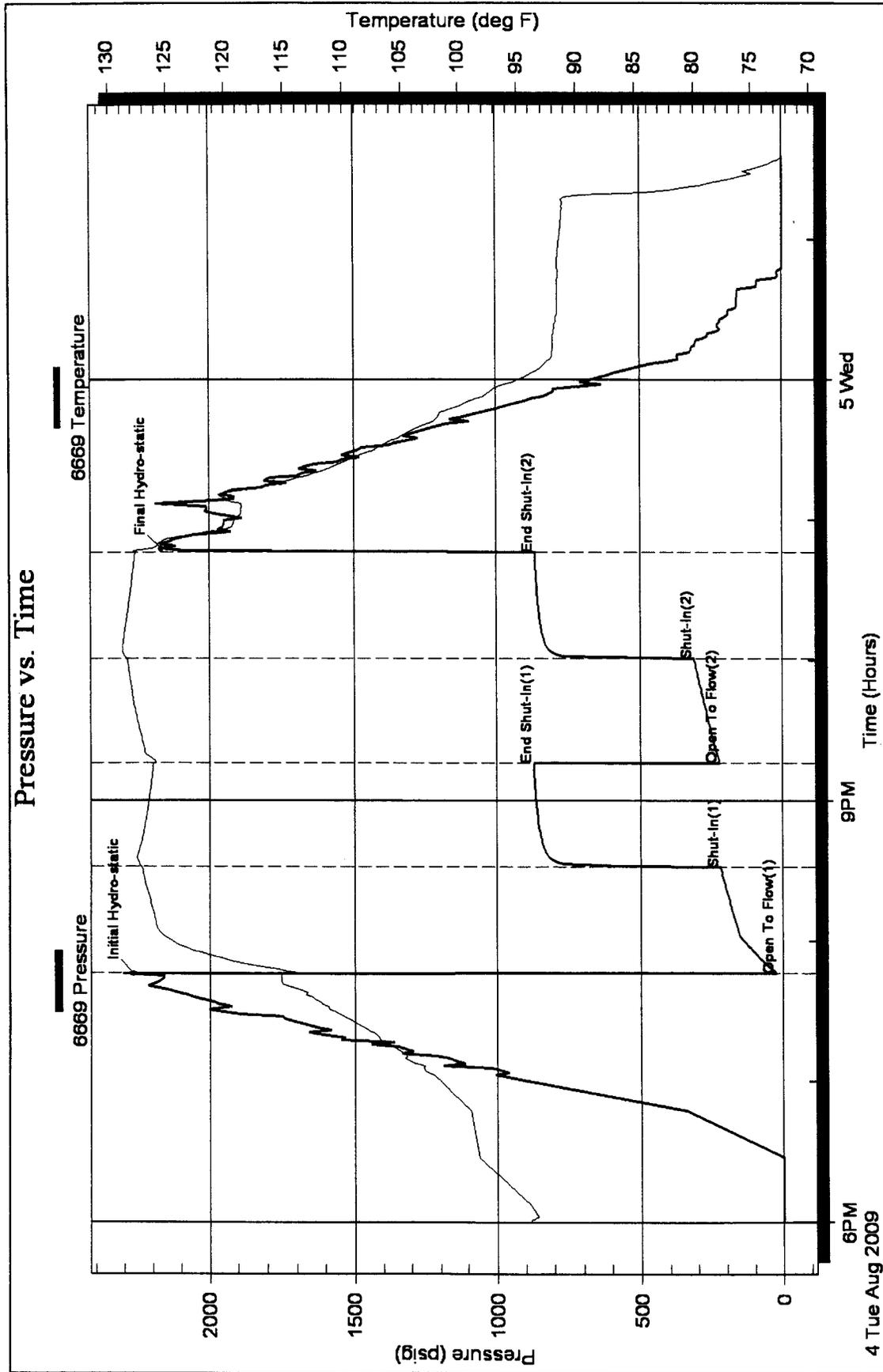
Inside

American Warrior

26 21 25 Hodgeman KS

DST Test Number: 2

### Pressure vs. Time



6PM  
4 Tue Aug 2009

9PM

Time (Hours)

5 Wed