

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Marc Downing

16-24s-30w Gray, KS

Gates #8-16

Start Date: 2009.01.02 @ 18:50:45

End Date: 2009.01.03 @ 02:53:09

Job Ticket #: 34180 DST #: 1

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JUL 13 2009

KCC WICHITA

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

American Warrior

PO Box 399
Garden City, KS 67846

ATTN: Marc Downing

Gates #8-16

16-24s-30w Gray, KS

Job Ticket: 34180

DST#: 1

Test Start: 2009.01.02 @ 18:50:45

GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:16:35

Time Test Ended: 02:53:09

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4831.00 ft (KB) To 4855.00 ft (KB) (TVD)**

Total Depth: 4855.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2863.00 ft (KB)

2852.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8017

Inside

Press@RunDepth: 23.26 psig @ 4835.00 ft (KB)

Start Date: 2009.01.02

End Date:

2009.01.03

Start Time: 18:50:46

End Time:

02:53:10

Capacity: 7000.00 psig

Last Calib.: 2009.01.03

Time On Btm: 2009.01.02 @ 22:16:30

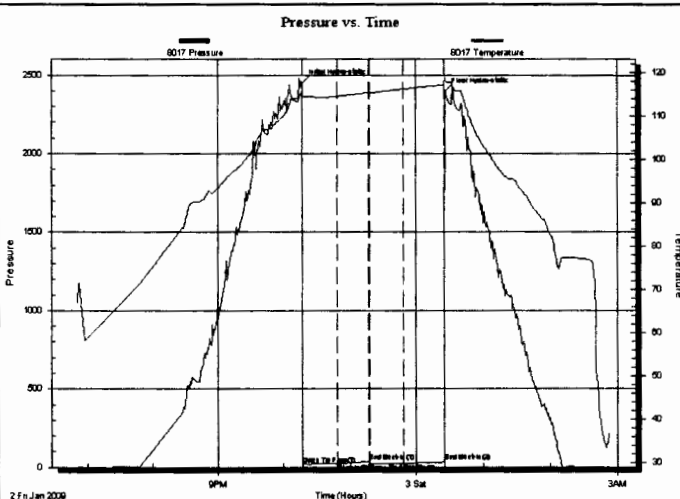
Time Off Btm: 2009.01.03 @ 00:26:30

TEST COMMENT: IF: 1/2" Blow died @ 21 min.

IS: No return.

FF: No blow.

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2450.49	115.11	Initial Hydro-static
1	18.23	113.92	Open To Flow (1)
32	21.58	114.44	Shut-In (1)
61	36.70	115.31	End Shut-In (1)
62	22.29	115.28	Open To Flow (2)
92	23.26	116.12	Shut-In (2)
129	32.92	117.08	End Shut-In (2)
130	2395.94	118.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	OSM 100%M	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

Gates #8-16

PO Box 399
Garden City, KS 67846

16-24s-30w Gray, KS

Job Ticket: 34180

DST#: 1

ATTN: Marc Downing

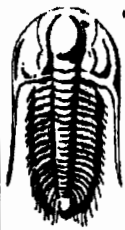
Test Start: 2009.01.02 @ 18:50:45

Tool Information

Drill Pipe:	Length: 4755.00 ft	Diameter: 3.80 inches	Volume: 66.70 bbl	Tool Weight: 2700.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 67.00 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	11.50 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4831.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	51.50 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			4804.50	
Shut In Tool	5.00			4809.50	
Hydraulic tool	5.00			4814.50	
Jars	5.00			4819.50	
Safety Joint	2.50			4822.00	
Packer	5.00			4827.00	27.50 Bottom Of Top Packer
Packer	4.00			4831.00	
Stubb	1.00			4832.00	
Perforations	3.00			4835.00	
Recorder	0.00	8017	Inside	4835.00	
Recorder	0.00	8351	Inside	4835.00	
Perforations	15.00			4850.00	
Bullnose	5.00			4855.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.50



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Gates #8-16

PO Box 399
Garden City, KS 67846

16-24s-30w Gray, KS

Job Ticket: 34180

DST#: 1

ATTN: Marc Downing

Test Start: 2009.01.02 @ 18:50:45

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	OSM 100%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8017

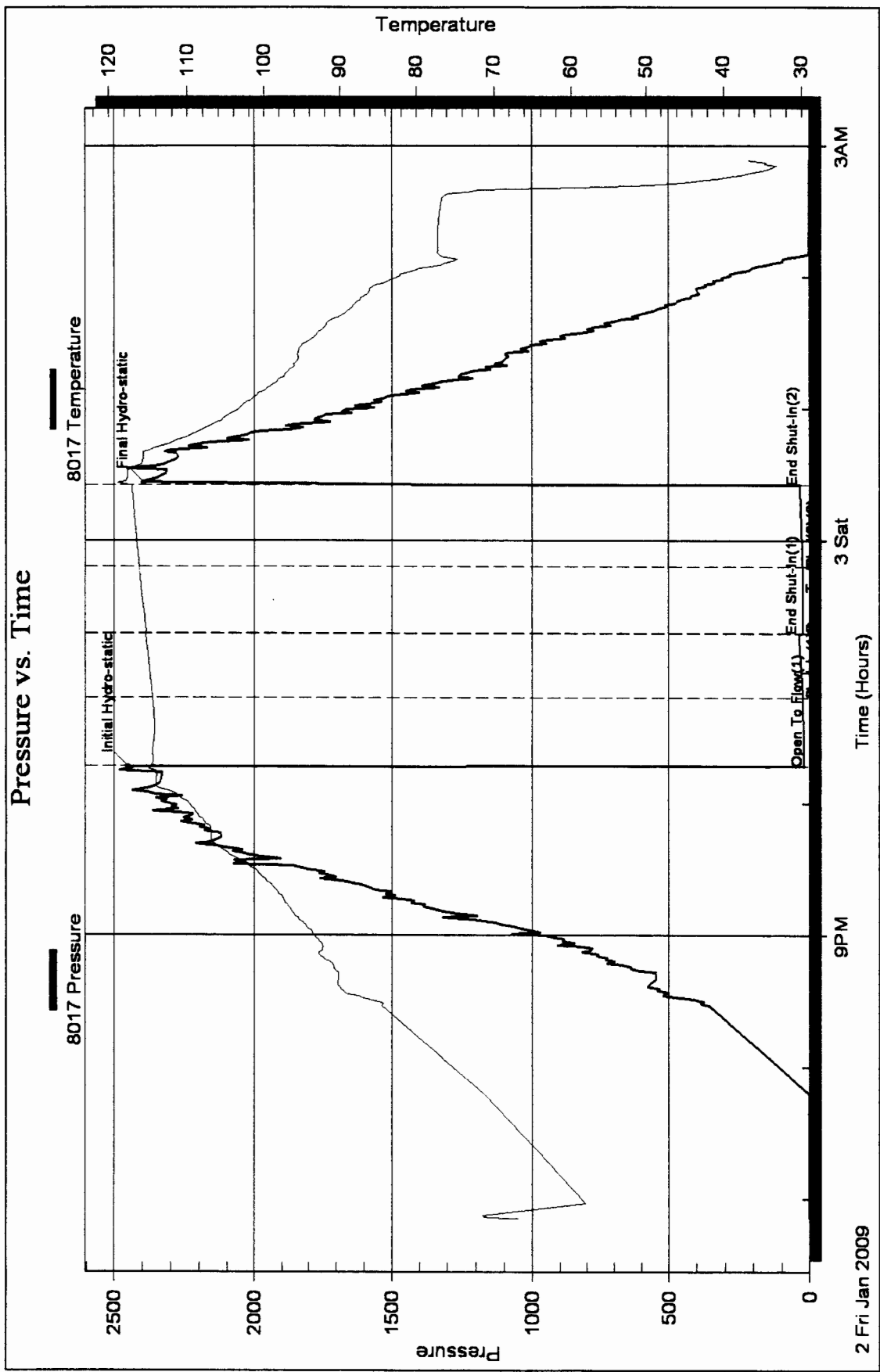
Inside

American Warrior

16-24s-30w Gray, KS

DST Test Number: 1

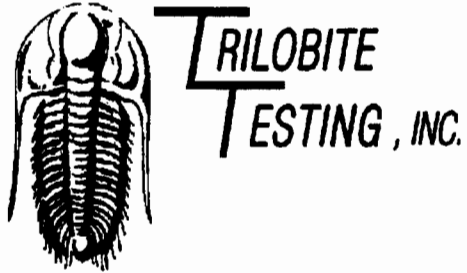
Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 34180

Printed: 2009.01.12 @ 11:29:00 Page 5



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Marc Downing

16-24s-30w Gray, KS

Gates #8-16

Start Date: 2009.01.03 @ 12:51:00

End Date: 2009.01.03 @ 21:47:15

Job Ticket #: 33610 DST #: 2

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American Warrior

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ATTN: Marc Downing

Gates #8-16

16-24s-30w Gray, KS

Job Ticket: 33610

DST#: 2

Test Start: 2009.01.03 @ 12:51:00

GENERAL INFORMATION:

Formation: **ST. LOUIS**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:57:45

Time Test Ended: 21:47:15

Test Type: Conventional Bottom Hole

Tester: KYLE WILEY

Unit No: 37

Interval: **4861.00 ft (KB) To 4885.00 ft (KB) (TVD)**

Total Depth: 4855.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2863.00 ft (KB)

2852.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8351

Inside

Press@RunDepth: 44.74 psig @ 4865.00 ft (KB)

Start Date: 2009.01.03

End Date:

2009.01.03

Start Time: 12:51:01

End Time:

21:47:15

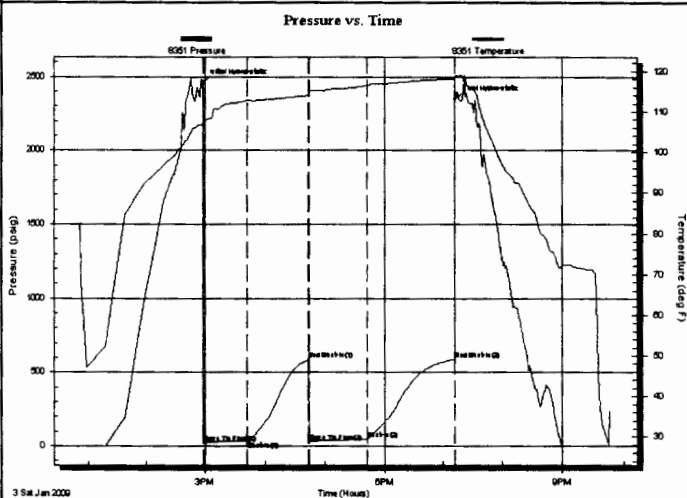
Capacity: 7000.00 psig

Last Calib.: 2009.01.03

Time On Btm: 2009.01.03 @ 14:57:30

Time Off Btm: 2009.01.03 @ 19:12:30

TEST COMMENT: IF: 7" BLOW
IS: NO RETURN
FF: BOB 10 MIN
FS: NO RETURN



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2460.07	107.01	Initial Hydro-static
1	17.41	106.27	Open To Flow (1)
45	34.96	112.76	Shut-In(1)
105	586.29	113.95	End Shut-In(1)
106	25.87	114.83	Open To Flow (2)
165	44.74	116.43	Shut-In(2)
255	590.26	118.15	End Shut-In(2)
255	2348.38	118.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	WGMCO 5%W 15%G 60%M 20%O	0.51

Gas Rates

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

American Warrior

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Garden City, KS 67846

16-24s-30w Gray, KS

Job Ticket: 33610

DST#: 2

ATTN: Marc Downing

Test Start: 2009.01.03 @ 12:51:00

Tool Information

Drill Pipe:	Length: 4776.50 ft	Diameter: 3.80 inches	Volume: 67.00 bbl	Tool Weight:	2700.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 67.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	63000.00 lb
Depth to Top Packer:	4861.00 ft			Final	63500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	24.00 ft				
Tool Length:	51.50 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			4834.50	
Shut In Tool	5.00			4839.50	
Hydraulic tool	5.00			4844.50	
Jars	5.00			4849.50	
Safety Joint	2.50			4852.00	
Packer	5.00			4857.00	27.50 Bottom Of Top Packer
Packer	4.00			4861.00	
Stubb	1.00			4862.00	
Perforations	3.00			4865.00	
Recorder	0.00	8017	Inside	4865.00	
Recorder	0.00	8351	Inside	4865.00	
Perforations	15.00			4880.00	
Bullnose	5.00			4885.00	24.00 Bottom Packers & Anchor

Total Tool Length: 51.50



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Job Ticket: 33610

DST#: 2

ATTN: Marc Downing

Test Start: 2009.01.03 @ 12:51:00

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: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	WGMCO 5%W 15%G 60%M 20%O	0.505

Total Length: 75.00 ft

Total Volume: 0.505 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

