



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 399
Garden City KS 67846

ATTN: Jim Diltz

24 34S 9W Harper KS

15-077 21677

Patterson # 1-24

Start Date: 2010.04.09 @ 13:34:08

End Date: 2010.04.09 @ 23:38:38

Job Ticket #: 36183 DST #: 1

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

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American Warrior Inc.

Patterson # 1-24

24 34S 9W Harper KS

DST # 1

Mississippi

2010.04.09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.
P.O. Box 399
Garden City KS 67846
ATTN: Jim Diltz

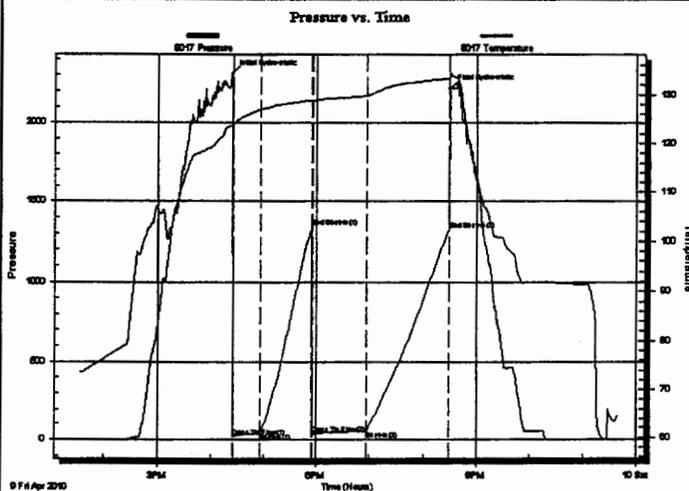
Patterson # 1-24
24 34S 9W Harper KS
Job Ticket: 36183 **DST#: 1**
Test Start: 2010.04.09 @ 13:34:08

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 16:24:18
Time Test Ended: 23:38:38
Interval: **4630.00 ft (KB) To 4655.00 ft (KB) (TVD)**
Total Depth: **4655.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Test Type: **Conventional Bottom Hole**
Tester: **Kevin Taylor**
Unit No: **31**
Reference Elevations: **1302.00 ft (KB)**
1287.00 ft (CF)
KB to GR/CF: **15.00 ft**

Serial #: 8017 **Inside**
Press@RunDepth: **53.22 psig @ 4631.00 ft (KB)**
Start Date: **2010.04.09** End Date: **2010.04.09**
Start Time: **13:34:13** End Time: **23:38:38**
Capacity: **8000.00 psig**
Last Calib.: **2010.04.09**
Time On Btm: **2010.04.09 @ 16:23:48**
Time Off Btm: **-2010.04.09 @ 20:29:48**

TEST COMMENT: I.F. Strong Blow B.O.B. 9 Min
L.S.I. Bled Off 5 Min No Blow
F.F. Strong Blow B.O.B. 10 Sec
F.S.I. Bled Off 5 Min No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.07	123.86	Initial Hydro-static
1	20.69	123.46	Open To Flow (1)
33	39.39	126.94	Shut-In(1)
91	1339.38	128.84	End Shut-In(1)
92	35.75	128.65	Open To Flow (2)
153	53.22	129.68	Shut-In(2)
246	1321.13	133.23	End Shut-In(2)
246	2217.22	133.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
89.00	OGWCM 20%M 22%W 23%O 35%G	0.65
40.00	OGWCM 40%M 15%W 15%O 30%G	0.58
0.00	1429 GIP	0.00

Gas Rates

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



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

Patterson # 1-24

P.O. Box 399
Garden City KS 67846

24 34S 9W Harper KS

Job Ticket: 36183

DST#: 1

ATTN: Jim Diltz

Test Start: 2010.04.09 @ 13:34:08

Tool Information

Drill Pipe:	Length: 4531.00 ft	Diameter: 3.88 inches	Volume: 66.26 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 27000.00 lb
Drill Collar:	Length: 89.00 ft	Diameter: 2.75 inches	Volume: 0.65 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 66.91 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 63000.00 lb
Depth to Top Packer:	4630.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 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
Shut In Tool	5.00			4607.00	
Hydraulic tool	5.00			4612.00	
Jars	5.00			4617.00	
Safety Joint	3.00			4620.00	
Packer	5.00			4625.00	28.00 Bottom Of Top Packer
Packer	5.00			4630.00	
Stubb	1.00			4631.00	
Recorder	0.00	8017	Inside	4631.00	
Recorder	0.00	8352	Outside	4631.00	
Perforations	21.00			4652.00	
Bullnose	3.00			4655.00	25.00 Bottom Packers & Anchor

Total Tool Length: 53.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Patterson # 1-24

P.O. Box 399
Garden City KS 67846

24 34S 9W Harper KS

Job Ticket: 36183 **DST#: 1**

ATTN: Jim Diltz

Test Start: 2010.04.09 @ 13:34:08

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: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
89.00	OGWCM 20%M 22%W 23%O 35%G	0.654
40.00	OGWCM 40%M 15%W 15%O 30%G	0.585
0.00	1429 GIP	0.000

Total Length: 129.00 ft Total Volume: 1.239 bbf

Num Fluid Samples: 0

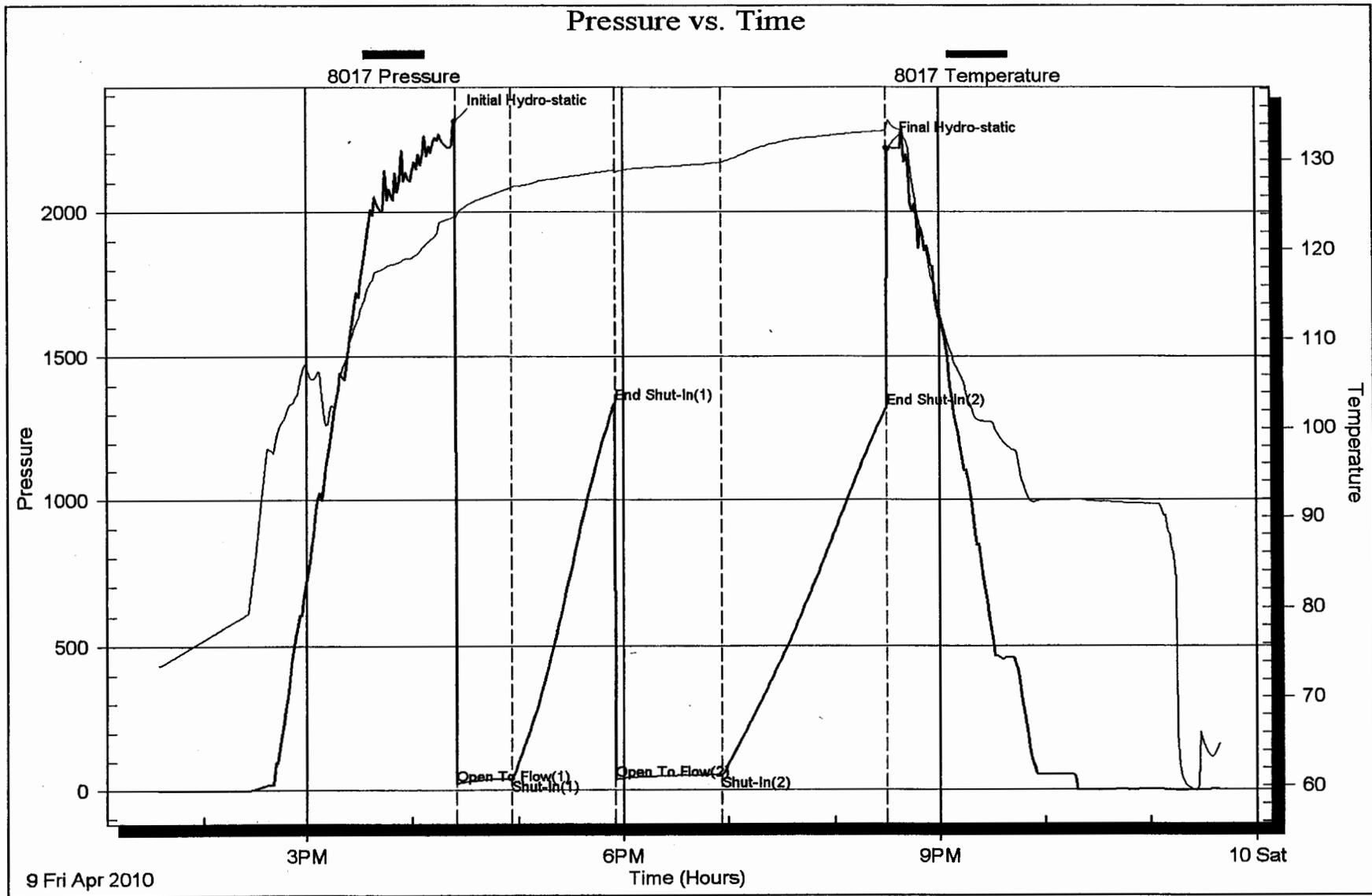
Num Gas Bombs: 0

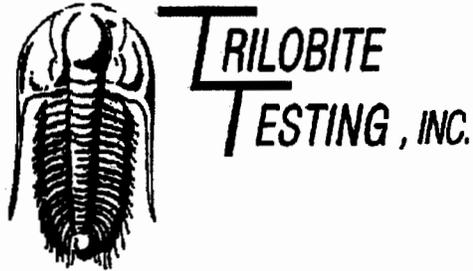
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

P.O. Box 399
Garden City KS 67846

ATTN: Jim Diltz

24 34S 9W Harper KS

Patterson # 1-24

Start Date: 2010.04.10 @ 10:41:27

End Date: 2010.04.10 @ 19:34:37

Job Ticket #: 36184 DST #: 2

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



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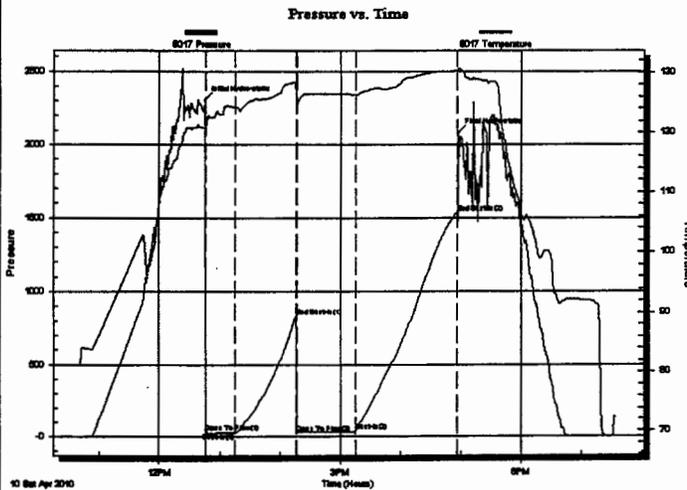
Patterson # 1-24
24 34S 9W Harper KS
Job Ticket: 36184 **DST#: 2**
Test Start: 2010.04.10 @ 10:41:27

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No Whipstock** ft (KB)
Time Tool Opened: 12:45:17
Time Test Ended: 19:34:37
Interval: **4655.00 ft (KB) To 4685.00 ft (KB) (TVD)**
Total Depth: **4685.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Fair**
Reference Elevations: **1302.00 ft (KB)**
1287.00 ft (CF)
KB to GR/CF: **15.00 ft**

Serial #: 8017 Inside
Press@RunDepth: **1532.71 psig @ 4656.00 ft (KB)**
Start Date: **2010.04.10** End Date: **2010.04.10**
Start Time: **10:41:32** End Time: **19:34:36**
Capacity: **8000.00 psig**
Last Calib.: **2010.04.10**
Time On Btm: **2010.04.10 @ 12:44:57**
Time Off Btm: **2010.04.10 @ 16:57:26**

TEST COMMENT: I.F. Strong Blow B.O.B 24 Mn
L.S.I. Bled Off 5 Mn Weak Surface Blow Died In 15 Mn
F.F. Strong Blow B.O.B. 7 Sec
F.S.I. Bled Off 8 Mn No Blow



PRESSURE SUMMARY

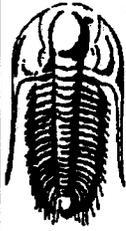
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2305.34	120.86	Initial Hydro-static
1	31.91	120.15	Open To Flow (1)
30	24.61	124.17	Shut-In(1)
91	828.08	128.43	End Shut-In(1)
92	24.58	124.38	Open To Flow (2)
151	36.45	126.29	Shut-In(2)
252	1532.71	130.22	End Shut-In(2)
253	2083.09	130.61	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	OGCM 15%G 30%O 55%M	1.17
0.00	2179 GIP	0.00

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

P.O. Box 399
Garden City KS 67846

ATTN: Jim Ditz

Patterson # 1-24

24 34S 9W Harper KS

Job Ticket: 36184

DST#:2

Test Start: 2010.04.10 @ 10:41:27

Tool Information

Drill Pipe:	Length: 4644.00 ft	Diameter: 3.88 inches	Volume: 67.91 bbl	Tool Weight: 2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 27000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 110000.0 lb
			<u>Total Volume: 67.91 bbl</u>	Tool Chased 90.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4655.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	58.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4632.00	
Hydraulic tool	5.00			4637.00	
Jars	5.00			4642.00	
Safety Joint	3.00			4645.00	
Packer	5.00			4650.00	28.00 Bottom Of Top Packer
Packer	5.00			4655.00	
Stubb	1.00			4656.00	
Recorder	0.00	8017	Inside	4656.00	
Recorder	0.00	8352	Outside	4656.00	
Perforations	26.00			4682.00	
Bullnose	3.00			4685.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



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Patterson # 1-24
24 34S 9W Harper KS
Job Ticket: 36184 DST#: 2
Test Start: 2010.04.10 @ 10:41:27

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: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.94 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.02 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	OGCM 15%G 30%O 55%M	1.170
0.00	2179 GP	0.000

Total Length: 80.00 ft Total Volume: 1.170 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

