

15-135-24566

34-195-21w

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City KS 67846

ATTN: Scott Corsair

34 19 21W Ness KS

Pittenger 2-34

Start Date: 2006.12.13 @ 07:22:48

End Date: 2006.12.13 @ 14:17:42

Job Ticket #: 25546 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



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TESTING, INC.

DRILL STEM TEST REPORT

American Warrior
PO Box 399
Garden City KS 67846
ATTN: Scott Corsair

Pittenger 2-34
34 19 21W Ness KS
Job Ticket: 25546 **DST#: 1**
Test Start: 2006.12.13 @ 07:22:48

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: **No** Whipstock: **ft (KB)**
Time Tool Opened: 09:34:13
Time Test Ended: 14:17:42

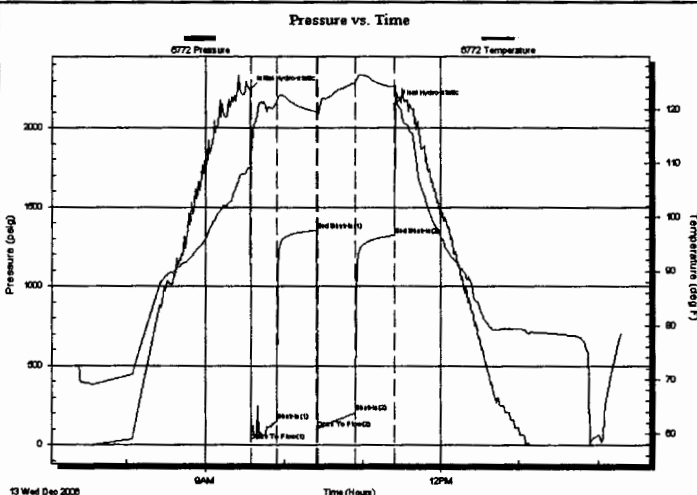
Test Type: **Conventional Bottom Hole**
Tester: **Brandon Turley**
Unit No: **35**

Interval: **4420.00 ft (KB) To 4429.00 ft (KB) (TVD)**
Total Depth: **4429.00 ft (KB) (TVD)**
Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2280.00 ft (KB)**
2275.00 ft (CF)
KB to GR/CF: **5.00 ft**

Serial #: 6772 **Inside**
Press@RunDepth: **206.26 psig @ 4421.00 ft (KB)**
Start Date: **2006.12.13** End Date: **2006.12.13**
Start Time: **07:22:48** End Time: **14:17:42**
Capacity: **7000.00 psig**
Last Calib.: **2006.12.13**
Time On Btm: **2006.12.13 @ 09:33:58**
Time Off Btm: **2006.12.13 @ 11:24:58**

TEST COMMENT: IF 1/4 blow BOB in 9 min.
IS Surface blow built to 1/2 in 30 min.
FF BOB in 8 min.
FS Surface blow built to 1 in 30 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2244.40	109.11	Initial Hydro-static
1	28.06	108.71	Open To Flow (1)
21	152.13	121.36	Shut-In (1)
51	1354.11	119.61	End Shut-In (1)
51	107.12	118.82	Open To Flow (2)
81	206.26	125.00	Shut-In (2)
111	1324.77	124.11	End Shut-In (2)
111	2149.99	124.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	WMGO 30%G 50%O 15%W 5%M	1.17
124.00	MGO 20%G 70%O 10%M	1.74
217.00	GO 10%G 90%O	3.04

Gas Rates

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

TOOL DIAGRAM

American Warrior

Pittenger 2-34

PO Box 399
Garden City KS 67846

34 19 21W Ness KS

ATTN: Scott Corsair

Job Ticket: 25546

DST#: 1

Test Start: 2006.12.13 @ 07:22:48

Tool Information

Drill Pipe:	Length: 4358.00 ft	Diameter: 3.80 inches	Volume: 61.13 bbl	Tool Weight:	1500.00 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: 62.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose:	70000.00 lb
		Total Volume:	61.43 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4420.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	9.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4394.00	
Shut In Tool	5.00			4399.00	
Hydraulic tool	5.00			4404.00	
Jars	5.00			4409.00	
Safety Joint	2.00			4411.00	
Packer	5.00			4416.00	27.00 Bottom Of Top Packer
Packer	4.00			4420.00	
Stubb	1.00			4421.00	
Recorder	0.00	6772	Inside	4421.00	
Perforations	3.00			4424.00	
Recorder	0.00	10248	Outside	4424.00	
Bullnose	5.00			4429.00	9.00 Bottom Packers & Anchor

Total Tool Length: 36.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Pittenger 2-34

PO Box 399
Garden City KS 67846

34 19 21W Ness KS

Job Ticket: 25546

DST#: 1

ATTN: Scott Corsair

Test Start: 2006.12.13 @ 07:22:48

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	WMCGO30%G 50%O 15%W 5%M	1.175
124.00	MCGO 20%G 70%O 10%M	1.739
217.00	GO 10%G 90%O	3.044

Total Length: 465.00 ft

Total Volume: 5.958 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

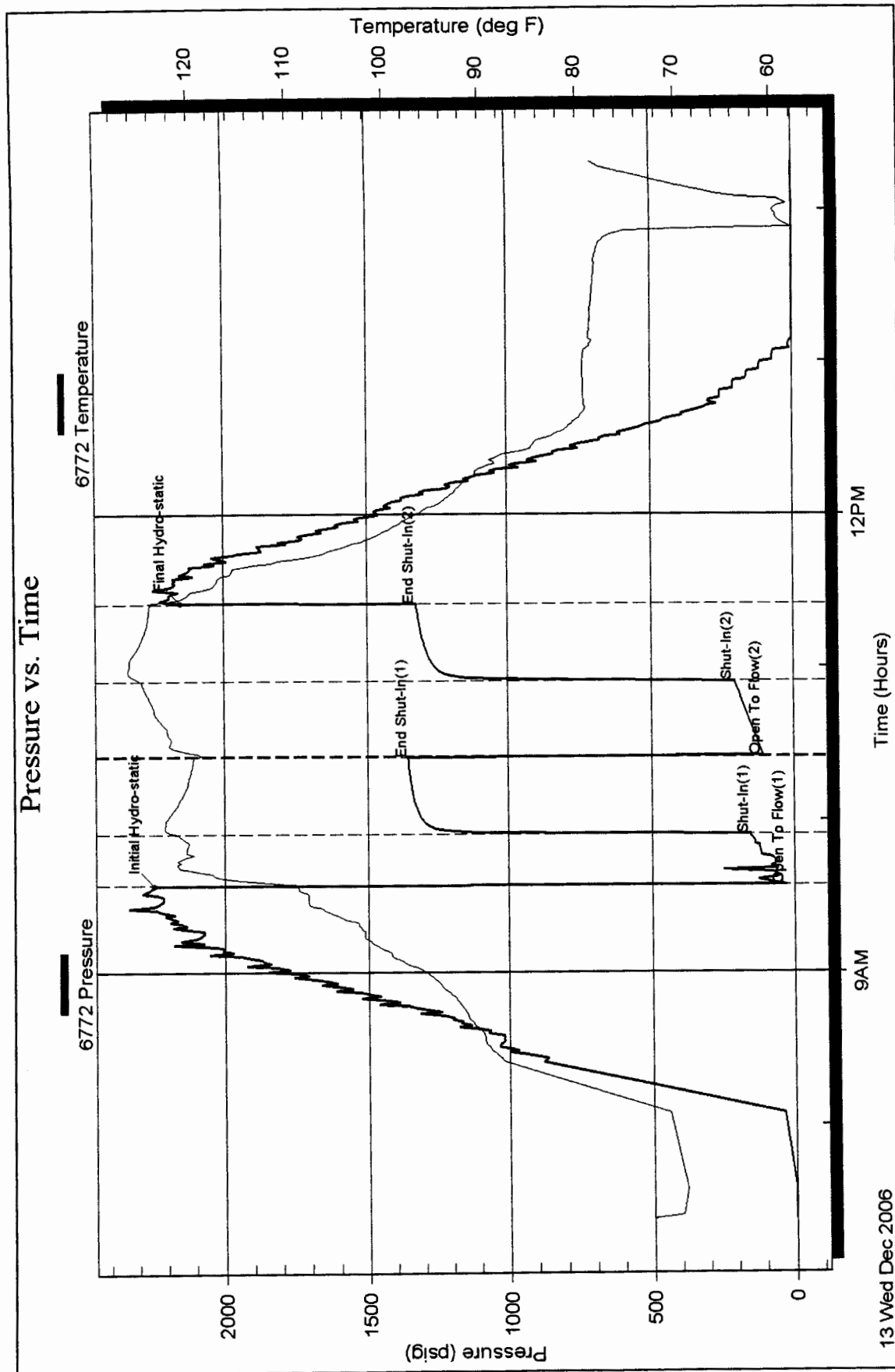
34 19 21W Ness KS

American Warrior

Inside

Serial #: 6772

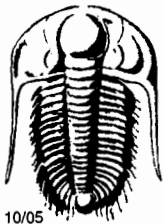
Pressure vs. Time



Ref. No: 25546

Trilobite Testing, Inc

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TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

25546

9665

Test Ticket

Well Name & No.	<u>Pittenger 2-34</u>	Test No.	<u>1</u>	Date	<u>12-13-06</u>
Company	<u>American Warrior</u>	Zone Tested	<u>Mississippi</u>		
Address	<u>P.O. Box 399 Garden City, KS 67846</u>	Elevation	<u>2280</u>	KB	<u>2275</u>
Co. Rep / Geo.	<u>Scott Corsair</u>	Rig	<u>Petromark</u>		
Location: Sec.	<u>34</u>	Twp.	<u>19S</u>	Rge.	<u>21W</u>
		Co.	<u>Ness</u>	State	<u>KS</u>
Comment:	Release date / time:				

Interval Tested	<u>4420</u>	<u>4429</u>	Initial Str Wt./Lbs.	<u>56,000</u>	Unseated Str Wt./Lbs.	<u>56,000</u>
Anchor Length		<u>9</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>70,000</u>
Top Packer Depth		<u>4415</u>	Tool Weight	<u>1500</u>		
Bottom Packer Depth		<u>4420</u>	Hole Size 7 7/8"	<u>✓</u>	Rubber Size 6 3/4"	<u>✓</u>
Total Depth		<u>4429</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>62</u>
Mud Wt.	<u>9.3</u>	LCM <u>2</u> Vis. <u>58</u> WL <u>8.8</u>	Drill Pipe Size	<u>4 1/2 X H</u>	Ft. Run	<u>4358</u>
Blow Description	<u>IF: 1/4 blow BoB in 9 min.</u>					

ts: Surface blow built to 1/2 in 30 min.

FF: BoB in 8 min.

FS: Surface blow built to 1 in 30 min.

Recovery - Total Feet	<u>465</u>	GIP	<u>279</u>	Ft. in DC	<u>62</u>	Ft. in DP	<u>403</u>
Rec.	<u>217</u>	Feet of	<u>90</u>	10 %gas	<u>90</u> %oil	%water	%mud
Rec.	<u>124</u>	Feet of	<u>90</u>	20 %gas	<u>70</u> %oil	%water	<u>10</u> %mud
Rec.	<u>124</u>	Feet of	<u>90</u>	30 %gas	<u>50</u> %oil	<u>15</u> %water	<u>5</u> %mud
Rec.		Feet of		%gas	%oil	%water	%mud
Rec.		Feet of		%gas	%oil	%water	%mud
BHT	<u>124</u>	*F Gravity	<u>40</u>	*API D @	<u>70</u>	*F Corrected Gravity	<u>39</u>
RW	<u>—</u>	@	<u>—</u>	*F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>
				Chlorides	<u>5000</u>	ppm System	

AK-1

(A) Initial Hydrostatic Mud	<u>2288</u>	PSI	Recorder No.	<u>6772</u>	Test X	<u>1200.00</u>
(B) First Initial Flow Pressure	<u>28</u>	PSI	(depth)	<u>4421</u>	Jars X	<u>250.00</u>
(C) First Final Flow Pressure	<u>152</u>	PSI	Recorder No.	<u>1048</u>	Safety Jt. X	<u>75.00</u>
(D) Initial Shut-In Pressure	<u>1354</u>	PSI	(depth)	<u>4428</u>	Circ Sub X	<u>N/L</u>
(E) Second Initial Flow Pressure	<u>107</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	<u>206</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	<u>1324</u>	PSI	Initial Opening	<u>20</u>	Ext. Packer	
(Q) Final Hydrostatic Mud	<u>2234</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer	
			Final Flow	<u>30</u>	Ruined Packer	
			Final Shut-In	<u>30</u>	Mileage	<u>170-212.50</u>

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Approved By [Signature]

Our Representative [Signature]

T-On Location

T-Started

T-Open

T-Pulled

T-Out

4:45

7:22

9:34

11:24

14:20

Sub Total:

Std. By 34

Acc. Chg:

Other:

Total:

75

1737.50

9665

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

10248
#1

American Warrior

Pittenger 2-34

