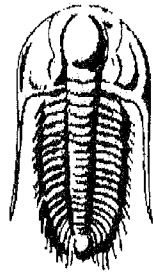


15-185-23142

19-21s-13w



**TRILOBITE
TESTING, INC.**

RELEASED

MAR 15 2004

FROM CONFIDENTIAL

DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Cecil O'Brate

19-21s-13w Stafford

Hufford #1-19

Start Date: 2001.10.28 @ 07:17:58

End Date: 2001.10.28 @ 14:22:57

Job Ticket #: 15651 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2001.10.29 @ 17:30:04 Page 1

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American Warrior Inc.

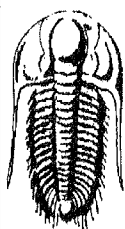
Hufford #1-19

19-21s-13w Stafford

DST # 1

Arbuckle

2001.10.28



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.

PO Box 399
Garden City, KS 67846

ATTN: Cecil O'Brate

Hufford #1-19

19-21s-13w Stafford

Job Ticket: 15651

DST#: 1

Test Start: 2001.10.28 @ 07:17:58

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:03:27

Time Test Ended: 14:22:57

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 16

Interval: **3656.00 ft (KB) To 3728.00 ft (KB) (TVD)**

Total Depth: 3728.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 1914.00 ft (KB)

1905.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 3024

Inside

Press@RunDepth: 332.72 psig @ 3666.02 ft (KB)

Start Date: 2001.10.28

End Date: 2001.10.28

Start Time: 07:17:58

End Time: 14:22:57

Capacity: 7000.00 psig

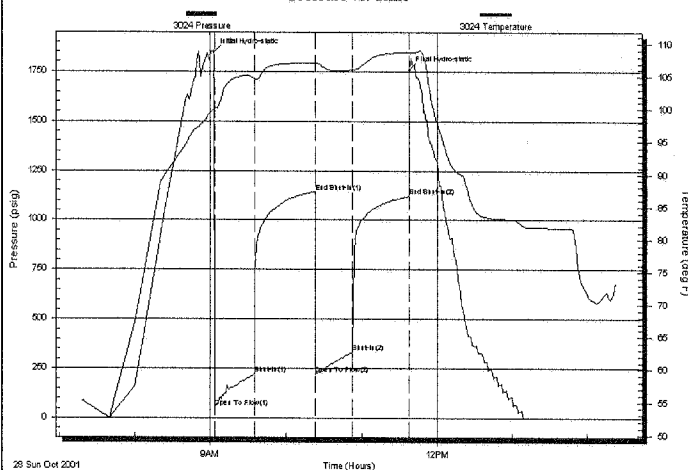
Last Calib.: 2001.10.28

Time On Btm: 2001.10.28 @ 09:02:57

Time Off Btm: 2001.10.28 @ 11:37:27

TEST COMMENT: IFP-strg blow in 5min slight blow back on shut-in
FFP-times 30-45-30-45

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1846.92	99.97	Initial Hydro-static
1	53.16	100.07	Open To Flow (1)
32	222.19	104.67	Shut-In (1)
80	1144.08	107.11	End Shut-In (1)
81	221.79	107.13	Open To Flow (2)
110	332.72	106.03	Shut-In (2)
154	1121.37	108.73	End Shut-In (2)
155	1756.43	108.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MGO 8%gas 77%oil 15%mud	0.15
315.00	MGO 8%gas 77%oil 15%mud	4.42
420.00	clean oil	5.89
75.00	GIP	1.05

Gas Rates

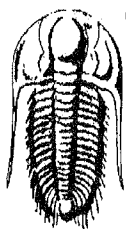
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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KCC

JAN 05 2002

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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

Hufford #1-19

PO Box 399
Garden City, KS 67846

19-21s-13w Stafford

Job Ticket: 15651

DST#: 1

ATTN: Cecil O'Brate

Test Start: 2001.10.28 @ 07:17:58

Tool Information

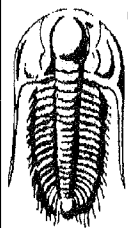
Drill Pipe:	Length: 3610.00 ft	Diameter: 3.80 inches	Volume: 50.64 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 49000.00 lb
			Total Volume: 50.79 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3656.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.02 ft			
Tool Length:	93.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3636.00	
S.I. Tool	5.00			3641.00	
HMV	5.00			3646.00	
Packer	5.00			3651.00	21.00 Bottom Of Top Packer
Packer	5.00			3656.00	
Stubb	1.00			3657.00	
Perforations	5.00			3662.00	
Recorder	0.01	11085	Outside	3662.01	
Perforations	3.00			3665.01	
C.O. Sub	1.00			3666.01	
Recorder	0.01	3024	Inside	3666.02	
Blank Spacing	30.00			3696.02	
C.O. Sub	1.00			3697.02	
Perforations	28.00			3725.02	
Bullnose	3.00			3728.02	72.02 Bottom Packers & Anchor

Total Tool Length: 93.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Hufford #1-19

PO Box 399
Garden City, KS 67846

19-21s-13w Stafford

Job Ticket: 15651

DST#: 1

ATTN: Cecil O'Brate

Test Start: 2001.10.28 @ 07:17:58

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MGO 8%gas 77%oil 15%mud	0.148
315.00	MGO 8%gas 77%oil 15%mud	4.419
420.00	clean oil	5.891
75.00	GIP	1.052

Total Length: 840.00 ft

Total Volume: 11.510 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

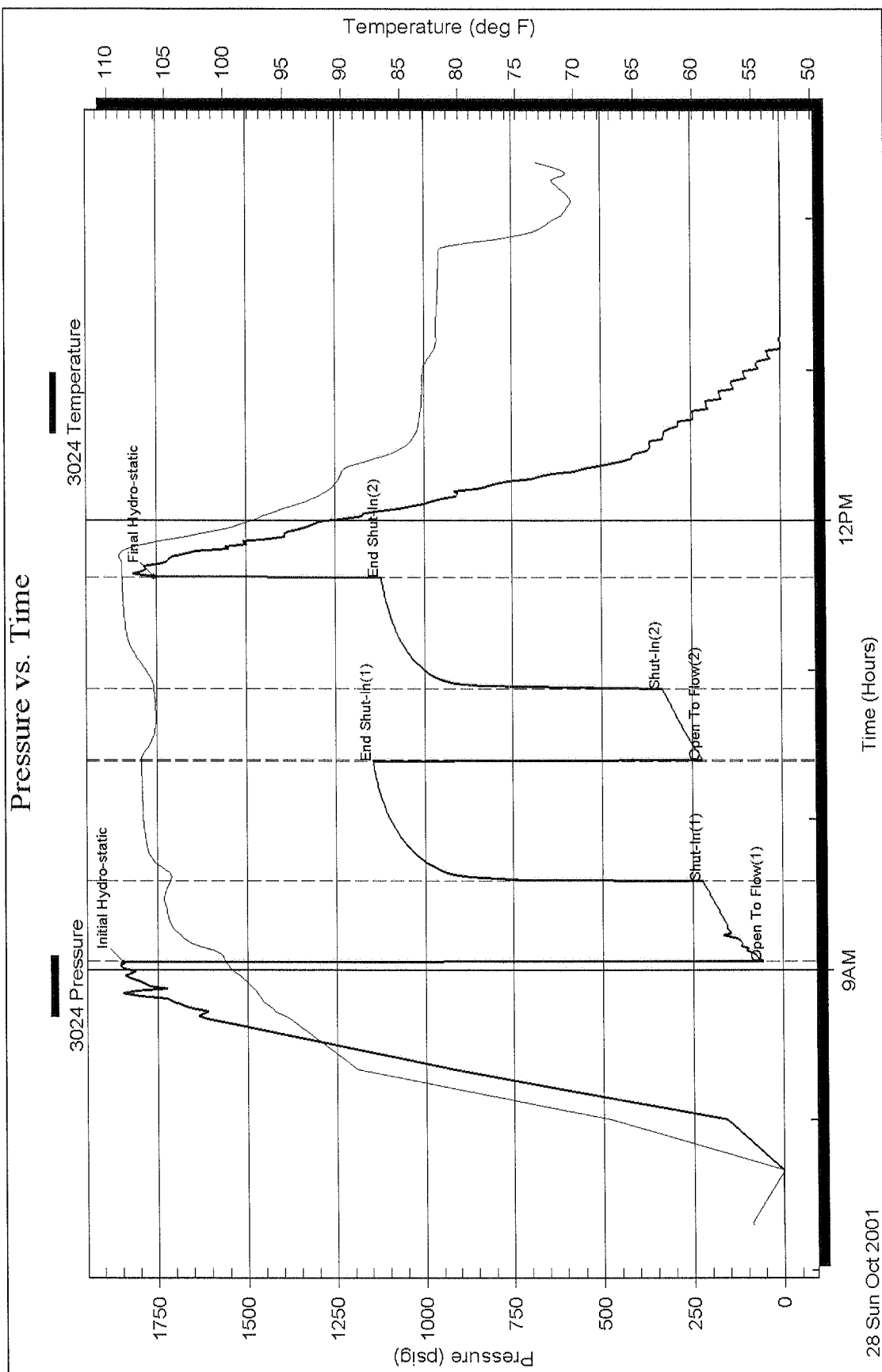
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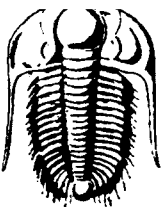
19-21s-13w Stafford

American Warrior Inc.

Inside

Serial #: 3024





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15651

Test Ticket

Well Name & No.	<u>Hufford #1-19</u>	Test No.	<u>1</u>	Date	<u>10-28-01</u>
Company	<u>AMERICAN WARRIOR, Inc</u>	Zone Tested	<u>ARBuckle</u>		
Address	<u>P.O. Box 399 Garden City, Ks 67846</u>	Elevation	<u>1914</u>	KB	<u>1905</u> GL
Co. Rep / Geo.	<u>Ron Nelson</u>	Cont.	<u>Discovery 192</u>	Est. Ft. of Pay	<u>-</u> Por. <u>-</u> %
Location: Sec.	<u>19</u>	Twp.	<u>21^s</u>	Rge.	<u>13^w</u> Co. <u>STAFFORD</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>-</u>	Turnkey (Y, N)	<u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested	<u>3656-3728</u>	Initial Str Wt./Lbs.	<u>42000</u>	Unseated Str Wt./Lbs.	<u>46000</u>
Anchor Length	<u>72</u>	Wt. Set Lbs.	<u>25000</u>	Wt. Pulled Loose/Lbs.	<u>49000</u>
Top Packer Depth	<u>3651</u>	Tool Weight	<u>2200</u>		
Bottom Packer Depth	<u>3656</u>	Hole Size — 7 7/8"	<u>yes</u>	Rubber Size — 6 3/4"	<u>yes</u>
Total Depth	<u>3728</u>	Wt. Pipe Run	<u>-</u>	Drill Collar Run	<u>30</u>
Mud Wt.	<u>9.4</u> LCM <u>-</u> Vis. <u>50</u> WL <u>8</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3610</u>
Blow Description	<u>TEP- STRONG Blow throughout G.O.B. in 5 min</u> <u>FFP- WEAK to STRONG in 28 min</u> <u>Slight Blow Back on shut-ins</u>				

Recovery — Total Feet	<u>765</u>	GIP	<u>75</u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>735</u>
Rec.	<u>30</u>	Feet Of	<u>MGO</u>	8 %gas	<u>77</u> %oil	%water	<u>15</u> %mud
Rec.	<u>315</u>	Feet Of	<u>MGO</u>	8 %gas	<u>77</u> %oil	%water	<u>15</u> %mud
Rec.	<u>420</u>	Feet Of	<u>CO</u>	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>108</u>	°F Gravity	<u>30</u>	°API D@	<u>60</u>	°F Corrected Gravity	<u>30</u> °API
RW	<u>✓</u>	@	<u>-</u>	°F Chlorides	<u>-</u>	ppm Recovery	Chlorides <u>6000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>1811</u>	PSI Recorder No.	<u>3024</u>	T-On Location	<u>0630</u>
(B) First Initial Flow Pressure	<u>53</u>	PSI (depth)	<u>3666</u>	T-Started	<u>0717</u>
(C) First Final Flow Pressure	<u>216</u>	PSI Recorder No.	<u>11085</u>	T-Open	<u>0850</u>
(D) Initial Shut-In Pressure	<u>1144</u>	PSI (depth)	<u>3662</u>	T-Pulled	<u>1120</u>
(E) Second Initial Flow Pressure	<u>221</u>	PSI Recorder No.	<u>-</u>	T-Out	<u>0205</u>
(F) Second Final Flow Pressure	<u>332</u>	PSI (depth)	<u>-</u>	T-Off Location	<u>0240</u>
(G) Final Shut-in Pressure	<u>1121</u>	PSI Initial Opening	<u>30</u>	Test	<u>✓</u> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1784</u>	PSI Initial Shut-in	<u>45</u>	Jars	
		Final Flow	<u>30</u>	Safety Joint	
		Final Shut-in	<u>45</u>	Straddle	

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Approved By [Signature]

Our Representative Ray Schwager Thank you

Other -
TOTAL PRICE \$ ✓ 890

CHART PAGE

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

