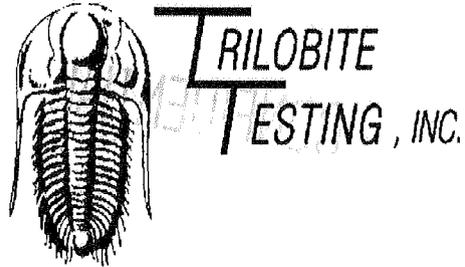


15-185-23141

18-21s-13w



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City Ks 67846

FROM CONFIDENTIAL
ATTN: Ron Nelson

18-21s-13w Stafford

Dewey 1-18

Start Date: 2001.10.20 @ 03:30:23

End Date: 2001.10.20 @ 12:10:51

Job Ticket #: 15425 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

American Warrior

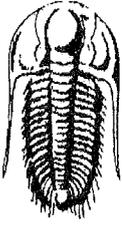
Dewey 1-18

18-21s-13w Stafford

DST # 1

Arbuckle

2001.10.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior

Dewey 1-18

PO Box 399
Garden City Ks 67846

18-21s-13w Stafford

ATTN: Ron Nelson

Job Ticket: 15425 DST#: 1

Test Start: 2001.10.20 @ 03:30:23

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:32:21
 Time Test Ended: 12:10:51

Test Type: Conventional Bottom Hole
 Tester: David Galloway
 Unit No: 12

Interval: **3622.00 ft (KB) To 3687.00 ft (KB) (TVD)**
 Total Depth: 3687.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1926.00 ft (KB)
 1918.00 ft (CF)
 KB to GR/CF: 8.00 ft

CONFIDENTIAL

Serial #: 3307

Outside

Press@RunDepth: 97.84 psig @ 3628.00 ft (KB)
 Start Date: 2001.10.20 End Date: 2001.10.20
 Start Time: 03:30:23 End Time: 12:10:51

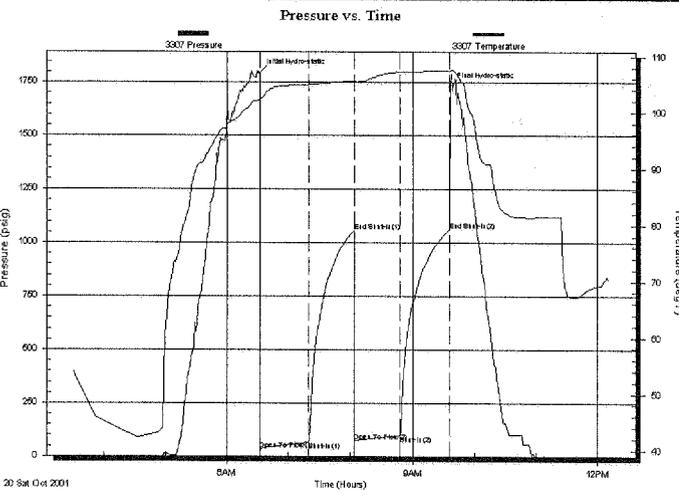
Capacity: 7000.00 psig
 Last Calib.: 2001.10.20
 Time On Btm: 2001.10.20 @ 06:31:51
 Time Off Btm: 2001.10.20 @ 09:35:51

RELEASED

TEST COMMENT: IF strong blow building to 10"
 ISI no blow
 FF: Strong Blow building to 8"

MAR 15 2004

FROM CONFIDENTIAL



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.44	102.11	Initial Hydro-static
1	30.72	102.32	Open To Flow (1)
48	66.37	104.98	Shut-In(1)
91	1054.22	105.60	End Shut-In(1)
92	72.74	105.75	Open To Flow (2)
136	97.84	107.27	Shut-In(2)
184	1060.58	107.41	End Shut-In(2)
185	1731.62	107.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Muddy Oil 60% m 40% OIL	0.99
105.00	OIL 100%	1.47

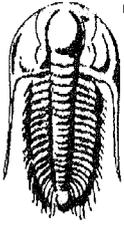
Gas Rates

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

KCC

JAN 23 2002

CONFIDENTIAL



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior
PO Box 399
Garden City Ks 67846
ATTN: Ron Nelson

Dewey 1-18
18-21s-13w Stafford
Job Ticket: 15425 **DST#: 1**
Test Start: 2001.10.20 @ 03:30:23

Tool Information

Drill Pipe:	Length: 3573.00 ft	Diameter: 3.80 inches	Volume: 50.12 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: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 50.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	1.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3622.00 ft			Final 46000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	85.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

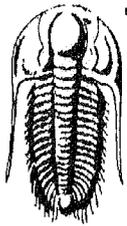
RELEASED

MAR 15 2004

FROM CONFIDENTIAL

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3603.00	
S.I. Tool	5.00			3608.00	
HMV	5.00			3613.00	
Packer	5.00			3618.00	20.00 Bottom Of Top Packer
Packer	4.00			3622.00	
Stubb	1.00			3623.00	
Perforations	4.00			3627.00	
C.O. Sub	1.00			3628.00	
Recorder	0.00	3307	Outside	3628.00	
Blank Spacing	30.00			3658.00	
C.O. Sub	1.00			3659.00	
Perforations	25.00			3684.00	
Recorder	0.00	13362	Inside	3684.00	
Bullnose	3.00			3687.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Dewey 1-18

PO Box 399
Garden City Ks 67846

18-21s-13w Stafford

Job Ticket: 15425

DST#: 1

ATTN: Ron Nelson

Test Start: 2001.10.20 @ 03:30:23

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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.47 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: 0.25 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Muddy Oil 60% m 40% OIL	0.989
105.00	OIL 100%	1.473

Total Length: 195.00 ft Total Volume: 2.462 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

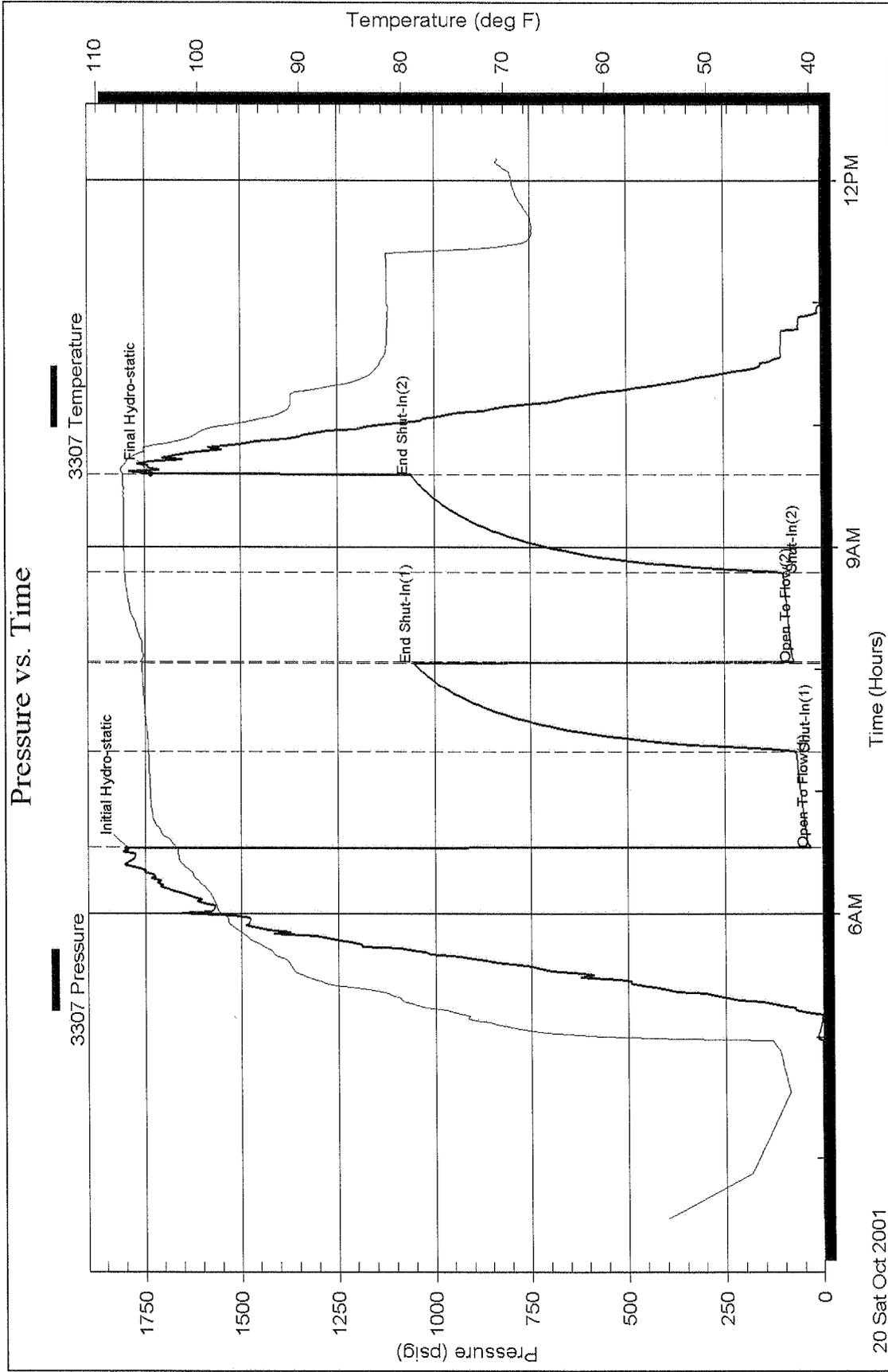
Recovery Comments:

Serial #: 3307

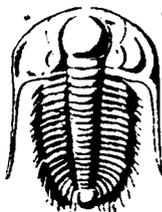
Outside American Warrior

18-21s-13w Stafford

DST Test Number: 1



20 Sat Oct 2001



TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15425

Test Ticket

Well Name & No. Dewey 1-18 Test No. 1 Date 10-19-01
 Company American warrior Zone Tested _____
 Address PO Box 399 Garden City 67846 Elevation 1926 KB 1918 GL
 Co. Rep / Geo. Ron Nelson Cont. DISCOVERY Est. Ft. of Pay _____ Por. _____ %
 Location: Sec. 18 Twp. 21S Rge. 13W Co. Stafford State KS
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 3622 - 3687 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. _____
 Anchor Length 65 Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. _____
 Top Packer Depth 3617 Tool Weight 2100
 Bottom Packer Depth 3622 Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 3687 Wt. Pipe Run 0 Drill Collar Run 30
 Mud Wt. 9.0 LCM _____ Vis. 51 WL _____ Drill Pipe Size 4 1/2 X 4 Ft. Run 3569
 Blow Description I.F. strong Blow Building to 10"
I.SI NO Blow
F.F. strong Blow Building to 8"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>105</u> Feet Of <u>oil</u>	%gas <u>100</u> %oil _____	%water _____ %mud _____	
Rec. <u>80</u> Feet Of <u>M.O.</u>	%gas <u>40</u> %oil _____	%water <u>60</u> %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____	%water _____ %mud _____	

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>1799</u>		<u>3307</u>	<u>200 AM</u>
(B) First Initial Flow Pressure	<u>32</u>		(depth) <u>3628</u>	T-Started <u>3:39</u>
(C) First Final Flow Pressure	<u>74</u>		PSI Recorder No. <u>13362</u>	T-Open <u>08:05</u>
(D) Initial Shut-In Pressure	<u>1054</u>		PSI (depth) <u>3689</u>	T-Pulled <u>02:05</u>
(E) Second Initial Flow Pressure	<u>73</u>		PSI Recorder No. _____	T-Out <u>12:10</u>
(F) Second Final Flow Pressure	<u>97</u>		PSI (depth) _____	T-Off Location <u>2:00</u>
(G) Final Shut-in Pressure	<u>1054</u>		PSI Initial Opening <u>45</u>	Test <u>✓</u> <u>700</u>
(Q) Final Hydrostatic Mud	<u>1731</u>		PSI Initial Shut-in <u>45</u>	Jars _____
			Final Flow <u>45</u>	Safety Joint _____
			Final Shut-in <u>45</u>	Straddle _____
				Circ. Sub _____
				Sampler _____
				Extra Packer _____
				Elec. Rec. <u>✓</u> <u>150</u>
				Mileage <u>32</u>
				Other <u>2 hrs 00</u>
				TOTAL PRICE \$ <u>942</u>

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
 Our Representative [Signature]

CHART PAGE

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

