

15-033-21210



CONFIDENTIAL

ORIGINAL

DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

RELEASED

PO Box 399
Garden City KS 67846

MAY 30 2002

KCC

CONFIDENTIAL
ATTN: Al Downing **MAY 30 2001**

CONFIDENTIAL
27-31S-20W Comanche

Randall "1-27"

Start Date: 2001.04.03 @ 20:04:00

End Date: 2001.04.04 @ 00:55:00

Job Ticket #: 13995 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

American Warrior Inc

Randall "1-27"

27-31S-20W Comanche

DST #: 1

Miss.

2001.04.03



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc
PO Box 399
Garden City KS 67846
ATTN: Al Dow ning

Randall "1-27"
27-31S-20W Comanche
Job Ticket: 13995 DST#: 1
Test Start: 2001.04.03 @ 20:04:00

RELEASED

GENERAL INFORMATION:

Formation: **Miss.** Test Type: Conventional Bottom Hole
Deviated: No Whipstock: ft (KB) Tester: Lanny Saloga
Time Tool Opened: 21:54:51 Unit No: 14
Time Test Ended: 00:55:00
Interval: **4917.00 ft (KB) To 5036.00 ft (KB) (TVD)** Reference Elevations: 1996.00 ft (KB)
Total Depth: 5036.00 ft (KB) 1983.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

MAY 30 2002

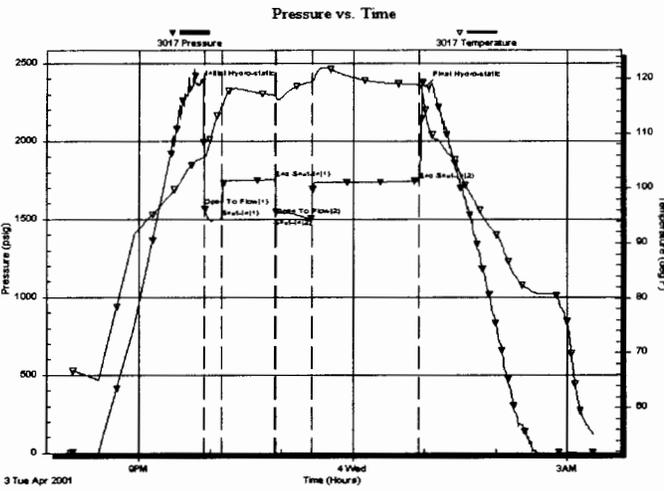
FROM CONFIDENTIAL

Serial #: **3017** Inside
Press@RunDepth: 1499.50 psig @ 4920.00 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.04.03 End Date: 2001.04.04 Last Calib.: 2001.04.02
Start Time: 20:04:11 End Time: 03:22:35 Time On Btm: 2001.04.03 @ 21:50:06
Time Off Btm: 2001.04.04 @ 01:01:36

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TEST COMMENT: Strong immed. GTS in 2 min. Blew mist of fluid 10 & 15 min. I.F.P.
No blow-back. I.S.I.P.
Blew mist of fluid 10 & 20 min. Less at 30 min. See Flow Chart. F.F.P.
No blow-back. F.S.I.P. Gas Est. 25 Ft. of Pay. Est. 15% Porosity.

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Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
106	2361.52	105.25	Initial Hydro-static
111	1577.25	105.56	Open To Flow (1)
126	1507.13	114.96	Shut-in(1)
171	1754.83	116.92	End Shut-in(1)
171	1515.71	116.89	Open To Flow (2)
201	1499.50	119.41	Shut-in(2)
291	1745.80	118.86	End Shut-in(2)
298	2350.38	112.72	Final Hydro-static

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Recovery		
Length (ft)	Description	Volume (bbl)
0.00	4833 ft. GIP	0.00
65.00	Condensate cut Mud 12% Con. 88% Mud	0.32

Gas Rates			
	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	230.00	3817.49
Last Gas Rate	0.75	450.00	7253.86
Max. Gas Rate	0.75	450.00	7253.86



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

Randall "1-27"

PO Box 399
Garden City KS 67846

27-31S-20W Comanche

Job Ticket: 13995

DST#: 1

ATTN: Al Dow ning

Test Start: 2001.04.03 @ 20:04:00

Tool Information

Drill Pipe:	Length: 4546.00 ft	Diameter: 3.80 inches	Volume: 63.77 bbl	Tool Weight: 3300.00 lb
Drill Collar:	Length: 352.00 ft	Diameter: 2.25 inches	Volume: 1.73 bbl	Weight set on Packer: 20000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 14000.00 lb
Drill Pipe Above KB:	8.00 ft			Tool Chased ft
Depth to Top Packer:	4912.00 ft			String Weight: Initial 76000.00 lb
Depth to Bottom Packer:	ft			Final 76000.00 lb
Interval between Packers:	ft			
Tool Length:	146.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments

Strong immed. GTS in 2 min. Blew mist of fluid 10 & 15 min. I.F.P.
No blow-back. I.S.I.P.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4891.00	
S.I. Tool	5.00			4896.00	
HMV	5.00			4901.00	
Jars	5.00			4906.00	
Safety Joint	2.00			4908.00	
Packer	4.00			4912.00	22.00 Bottom Of Top Packer
Packer	5.00			4917.00	
Stubb	1.00			4918.00	
Perforations	2.00			4920.00	
Recorder	0.00	3017	Inside	4920.00	
Perforations	20.00			4940.00	
C.O. Sub	1.00			4941.00	
Blank Spacing	92.00			5033.00	
Recorder	0.00	10242	Inside	5033.00	
C.O. Sub	1.00			5034.00	
Bullnose	2.00			5036.00	124.00 Bottom Packers & Anchor
Total Tool Length:	146.00				



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc
PO Box 399
Garden City KS 67846
ATTN: Al Downing

Randall "1-27"
27-31S-20W Comanche
Job Ticket: 13995 **DST#: 1**
Test Start: 2001.04.03 @ 20:04:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: -999999 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: - ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	214748364
Water Loss: 7.96	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4833 ft. GIP	0.000
65.00	Condensate cut Mud 12% Con. 88% Mud	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl
 Num Fluid Samples: 1 Num Gas Bombs: 1 Serial #: 3017
 Laboratory Name: Caraway Laboratory Location: Liberal KS
 Recovery Comments:

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**TRILOBITE
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DRILL STEM TEST REPORT

GAS RATES

American Warrior Inc
PO Box 399
Garden City KS 67846
ATTN: Al Downing

Randall "1-27"
27-31S-20W Comanche
Job Ticket: 13995 **DST#: 1**
Test Start: 2001.04.03 @ 20:04:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (kPaa)	Gas Rate (Mcf/d)
1	5	0.75	230.00	3817.49
1	5	0.75	230.00	3817.49
1	10	0.75	330.00	5379.48
1	15	0.75	410.00	6629.07
2	10	0.75	420.00	6785.26
2	20	0.75	450.00	7253.86

NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L. L. C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 913-625-5620

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number: 20011807 Analyzed: 04/07/01

Sample From: Randall 1-27 DST 1 Pressure:
 Producer: American Warrior, Inc. Temperature:

Date: 04/03/01 Location: 27-31-20

Time: County: Comanche
 Sampler: Lanny State: Kansas
 Source: Formation: Miss

	Mole %	GPM
Helium	He: 0.277	0.000
Hydrogen	H2: 0.006	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 9.129	0.000
Carbon Dioxide	CO2: 0.058	0.000
Methane	C1: 83.820	0.000
Ethane	C2: 4.138	1.107
Propane	C3: 1.420	0.391
Iso Butane	iC4: 0.278	0.091
Normal Butane	nC4: 0.404	0.127
Iso Pentane	iC5: 0.143	0.052
Normal Pentane	nC5: 0.097	0.035
Hexanes Plus	C6+: 0.230	0.100

TOTAL: 100.000 1.904

Z Fact: 0.9979
 SP.GR.: 0.6471
 BTU (SAT): 986.2 @ 14.73 psia
 BTU (DRY): 1003.6 @ 14.73 psia

OCTANE RATING: 115.5

COMMENTS:

0.000

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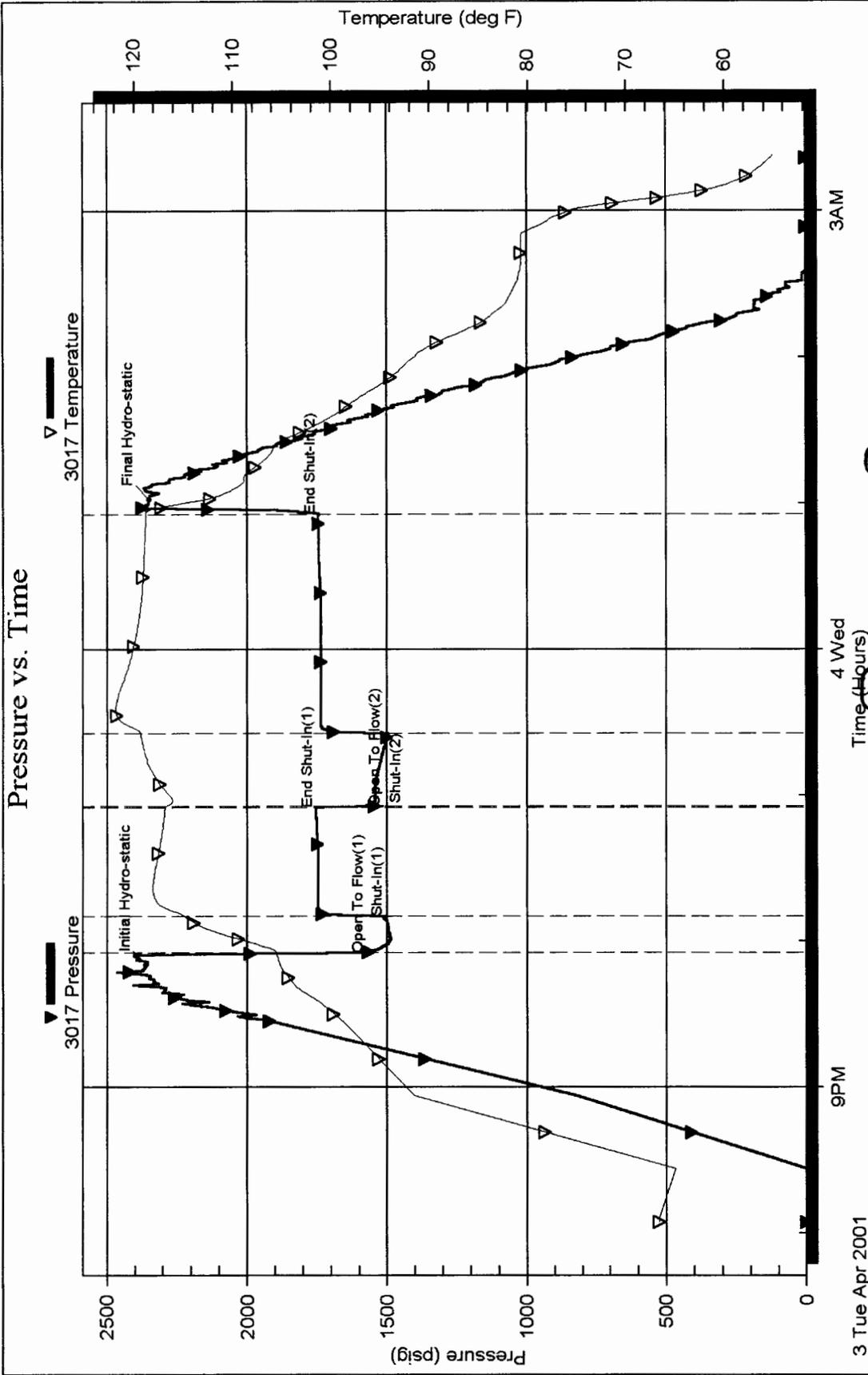
Serial #: 3017

Inside

American Warrior Inc

27-31S-20W Comanche

Pressure vs. Time



3017 Pressure

3017 Temperature

Initial Hydro-static

Final Hydro-static

Open To Flow(1) Shut-In(1)

End Shut-In(1)

Spec. To Flow(2) Shut-In(2)

End Shut-In(2)

9PM

3 Tue Apr 2001

4 Wed

Time (Hours)

3AM

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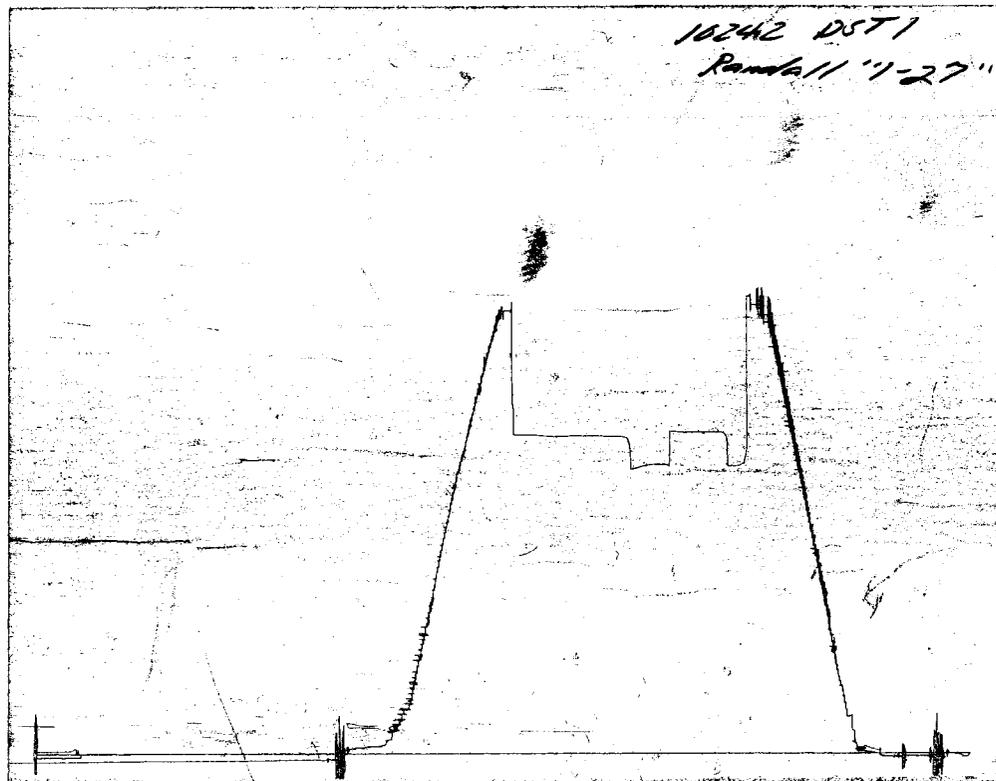
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CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13995

Test Ticket

Well Name & No. Randall "1-27" Test No. 1 Date 4-3-2001
 Company American Warrick Inc Zone Tested Miss.
 Address G.C. KS. 67846 Elevation 1996 KB 1983 GL
 Co. Rep / Geo. Al Downing Cont. Duke Rig 7 Est. Ft. of Pay 25 Por. 15 %
 Location: Sec. 27 Twp. 31S Rge. 20W Co. Cowanche State KS
 No. of Copies Req Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N) _____

Interval Tested 4917-5036 Initial Str Wt./Lbs. 76000 Unseated Str Wt./Lbs. 76,000
 Anchor Length 119' Top 1' = 27' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 14,000
 Top Packer Depth 4912 Tool Weight 3,300
 Bottom Packer Depth 4917 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5036 Wt. Pipe Run _____ Drill Collar Run 352
 Mud Wt. 9.1 LCM 2# Vis. 54 WL 8.0 Drill Pipe Size 4 1/2 XH Ft. Run 4546 8' up
 Blow Description Stagnant, GTS in 2 min. See Flow Chart. F.F.P.
No blow-back T.S.T.P.
See Flow Chart. F.F.P.
No blow-back F.S.T.P.

Recovery — Total Feet 65 GIP 4833 Ft. in DC 65 Ft. in DP 0
 Rec. 65 Feet Of Condensate cut mud 12% gas %oil %water 88% mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 Rec. _____ Feet Of _____ %gas %oil %water %mud
 BHT 118 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 4,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2437</u>	<u>2361</u>		<u>3017 "20:04"</u>	<u>7:00 P.M.</u>
(B) First Initial Flow Pressure	<u>1615</u>	<u>1577</u>		(depth) <u>4920</u>	T-Started <u>8:04 P.M.</u>
(C) First Final Flow Pressure	<u>1580</u>	<u>1507</u>		Recorder No. <u>10242</u>	T-Open <u>9:55 P.M.</u>
(D) Initial Shut-In Pressure	<u>1760</u>	<u>1754</u>		(depth) <u>5033</u>	T-Pulled <u>12:55 A.M.</u>
(E) Second Initial Flow Pressure	<u>1589</u>	<u>1515</u>		Recorder No. _____	T-Out <u>3:40 A.M.</u>
(F) Second Final Flow Pressure	<u>1563</u>	<u>1499</u>		(depth) _____	T-Off Location _____
(G) Final Shut-in Pressure	<u>1749</u>	<u>1745</u>		Initial Opening <u>15</u>	Test <u>900</u> ✓
(Q) Final Hydrostatic Mud	<u>2407</u>	<u>2350</u>		Initial Shut-in <u>45</u>	Jars <u>200</u> ✓
				Final Flow <u>30</u>	Safety Joint <u>150</u> ✓
				Final Shut-in <u>90</u>	Straddle _____
					Circ. Sub _____
					Sampler _____
					Extra Packer _____
					Elec. Rec. <u>150</u> ✓
					Mileage <u>65</u> ✓
					Other _____

40312004.017

TRILOBITE TESTING L.L.C. 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 Al

Our Representative Tammy S. Saban

TOTAL PRICE \$ 4365.00