

15-033-21187

CONFIDENTIAL



TRILOBITE
TESTING, INC

ORIGINAL

DRILL STEM TEST REPORT

Prepared For: American Warrior Inc

PO Box 399
JUL 01 2002 Golden City, KS 67846

FROM CONFIDENTIAL
ATTN: JUN 01 2001

26-31S-20W Comanche
CONFIDENTIAL

Judith #1

Start Date: 2001.03.18 @ 17:20:00

End Date: 2001.03.18 @ 23:10:00

Job Ticket #: 13993 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc

Judith #1

PO Box 399
Garden City KS 67846

26-31S-20W Comanche

Job Ticket: 13993

DST#: 1

ATTN:

Test Start: 2001.03.18 @ 17:20:00

GENERAL INFORMATION:

RELEASED

Formation: **Mississippi**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 19:25:42

Time Test Ended: 23:10:00

Interval: **4962.00 ft (KB) To 5102.00 ft (KB) (TVD)**

Total Depth: **5102.00 ft (KB)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Test Type: **Conventional Bottom Hole**

Tester: **Lanny Saloga**

Unit No: **14**

Reference Elevations: **2004.00 ft (KB)**

1991.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: **3017** Inside

Press@RunDepth: **439.94 psig @ 4964.00 ft (KB)**

Start Date: **2001.03.18**

End Date:

2001.03.19

Capacity: **7000.00 psig**

Last Calib.: **2001.03.17**

Start Time: **17:20:17**

End Time:

02:04:42

Time On Btm: **2001.03.18 @ 19:21:12**

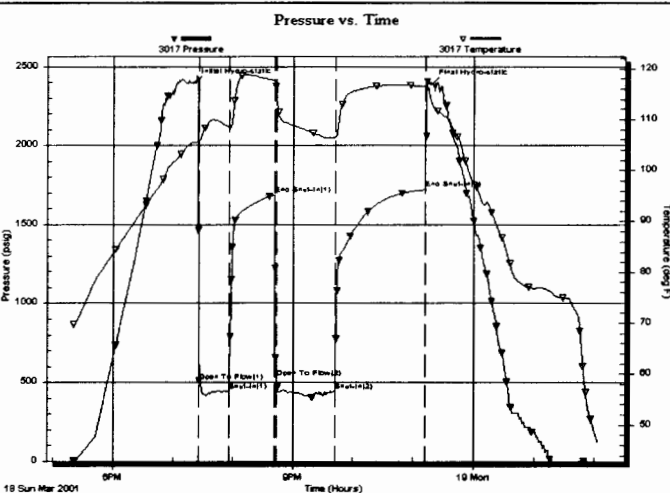
Time Off Btm: **2001.03.18 @ 23:17:57**

TEST COMMENT: Strong OBB in 1 min. GTS in 5 min. See flow chart. I.F.P.

No blow-back. I.S.I.P.

See flow chart. Gas burned. Blew mist of mud 50 & 60 min. F.F.P.

No blow-back. F.S.I.P. IF: Strong bob immed.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
121	2394.82	105.50	Initial Hydro-static
126	499.78	105.78	Open To Flow (1)
157	441.56	108.49	Shut-In(1)
202	1688.60	117.65	End Shut-In(1)
203	524.46	115.07	Open To Flow (2)
262	439.94	106.53	Shut-In(2)
352	1721.69	116.61	End Shut-In(2)
358	2389.95	113.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	4346 GIP	0.00
150.00	Sli Gas cut Mud 3%G 97%M	0.74
460.00	Hvy Gas Sli Oil cut Mud 38%G 4%O 58%M	4.60

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	46.00	943.44
Last Gas Rate	0.75	68.00	1287.08
Max. Gas Rate	0.75	78.00	1443.28

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

Judith #1

PO Box 399
Garden City KS 67846

26-31S-20W Comanche

Job Ticket: 13993

DST#: 1

ATTN:

Test Start: 2001.03.18 @ 17:20:00

Tool Information

Drill Pipe:	Length: 4603.00 ft	Diameter: 3.80 inches	Volume: 64.57 bbl	Tool Weight: 3800.00 lb
Drill Collar:	Length: 353.00 ft	Diameter: 2.25 inches	Volume: 1.74 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: 8000.00 lb
Drill Pipe Above KB:	21.00 ft			Tool Chased ft
Depth to Top Packer:	4957.00 ft			String Weight: Initial 80000.00 lb
Depth to Bottom Packer:	ft			Final 82000.00 lb
Interval between Packers:	ft			
Tool Length:	167.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments

Strong OBB in 1 min. GTS in 5 min. See flow chart. 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			4936.00	
S.I. Tool	5.00			4941.00	
HMV	5.00			4946.00	
Jars	5.00			4951.00	
Safety Joint	2.00			4953.00	
Packer	4.00			4957.00	22.00 Bottom Of Top Packer
Packer	5.00			4962.00	
Stubb	1.00			4963.00	
Perforations	1.00			4964.00	
Recorder	0.00	3017	Inside	4964.00	
Perforations	10.00			4974.00	
C.O. Sub	1.00			4975.00	
Blank Spacing	124.00			5099.00	
Recorder	0.00	10242	Inside	5099.00	
C.O. Sub	1.00			5100.00	
Bullnose	2.00			5102.00	145.00 Bottom Packers & Anchor
Total Tool Length:		167.00			



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

Judith #1

PO Box 399
Garden City KS 67846

26-31S-20W Comanche

Job Ticket: 13993

DST#: 1

ATTN:

Test Start: 2001.03.18 @ 17:20:00

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: 51.00 sec/qt

Cushion Volume:

bbl

214748364

Water Loss: 7.59

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4200.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	4346 GIP	0.000
150.00	Sli Gas cut Mud 3%G 97%M	0.738
460.00	Hvy Gas Sli Oil cut Mud 38%G 4%O 58%M	4.603

Total Length: 610.00 ft

Total Volume: 5.340 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
TESTING, INC**

DRILL STEM TEST REPORT

GAS RATES

American Warrior Inc

Judith #1

PO Box 399
Garden City KS 67846

26-31S-20W Comanche

Job Ticket: 13993

DST#: 1

ATTN:

Test Start: 2001.03.18 @ 17:20:00

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	10	0.75	46.00	943.44
1	10	0.75	46.00	943.44
1	20	0.75	67.00	1271.46
1	30	0.75	71.00	1333.94
2	10	0.75	73.00	1365.17
2	20	0.75	78.00	1443.28
2	30	0.75	76.00	1412.04
2	40	0.75	76.00	1412.04
2	50	0.75	68.00	1287.08

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: 20011439**Analyzed: 03/20/01****Sample From:** Judith #1 DST 1**Pressure:****Producer:** American Warrior, Inc.**Temperature:****Date: 03/18/01****Location: 26-31-20****Time:****County:** Comanche**Sampler:** Lanny**State:** Kansas**Source:****Formation:** Miss

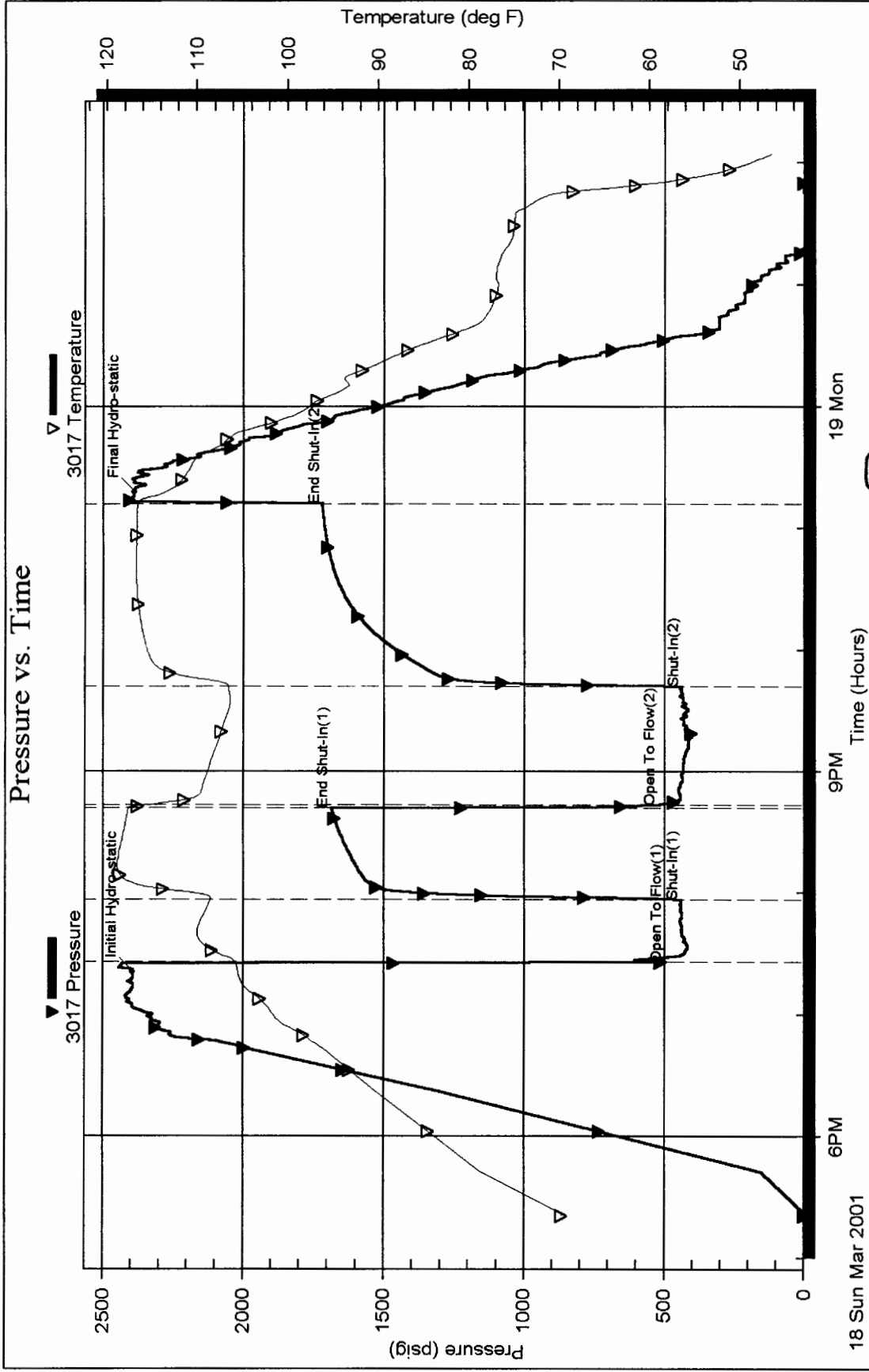
	Mole %	GPM
Helium	He: 0.317	0.000
Hydrogen	H2: 0.009	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 6.188	0.000
Carbon Dioxide	CO2: 0.101	0.000
Methane	C1: 87.350	0.000
Ethane	C2: 3.670	0.982
Propane	C3: 0.763	0.210
Iso Butane	iC4: 0.250	0.082
Normal Butane	nC4: 0.315	0.099
Iso Pentane	iC5: 0.195	0.071
Normal Pentane	nC5: 0.112	0.041
Hexanes Plus	C6+: 0.730	0.318

TOTAL: 100.000 1.803**Z Fact: 0.9978****SP.GR.: 0.6396****BTU (SAT): 1021.2 @ 14.73 psia****BTU (DRY): 1039.2 @ 14.73 psia****OCTANE RATING: 118.9****COMMENTS:**

0.000

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Pressure vs. Time



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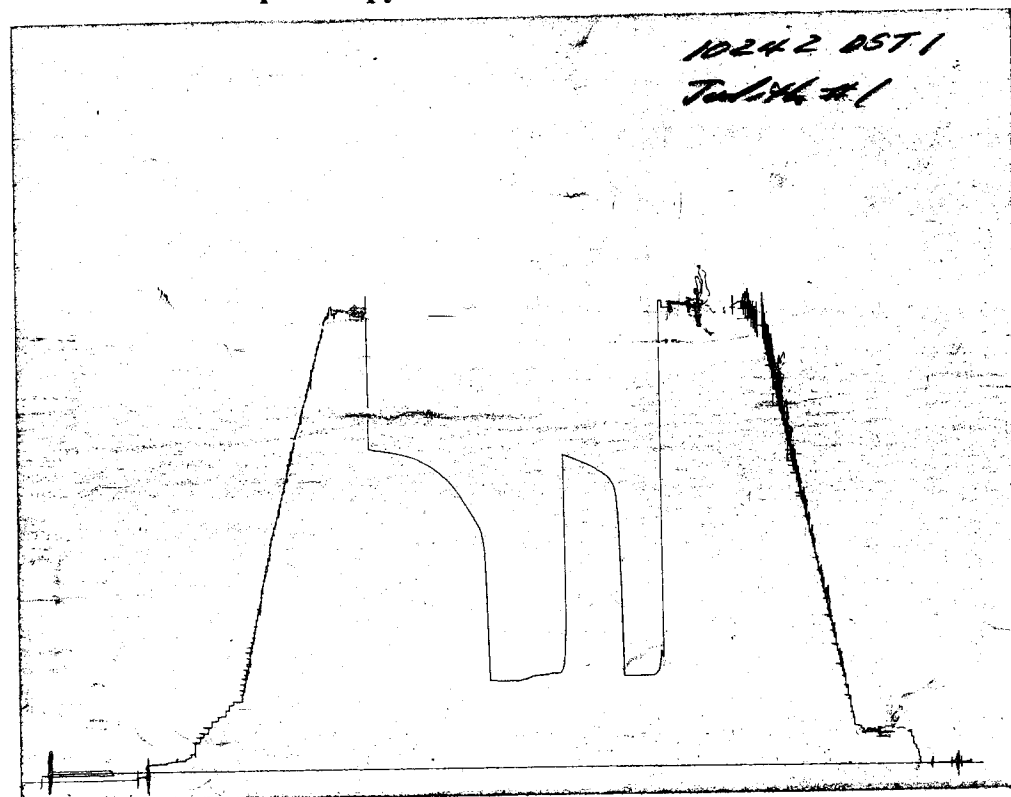
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Ref. No: 13993

Trilobite Testing, Inc

CHART PAGE

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





GAS VOLUME REPORT

DST NO.

I.F.P.

Blowing a mist of mud
at 50 & 60 min. Readings

)1 NCR

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13993

Test Ticket

Well Name & No.	<u>Judith #1</u>	Test No.	<u>1</u>	Date	<u>3-18-2001</u>
Company	<u>American Warrior Inc.</u>	Zone Tested	<u>Miss.</u>		
Address	<u>G.C. KS. 67846</u>	Elevation	<u>2004</u> KB <u>1991</u> GL		
Co. Rep / Geo.	<u>Al Downing</u>	Cont.	<u>Duke Rig 7</u>	Est. Ft. of Pay	<u>30</u> Por. <u>15</u> %
Location: Sec.	<u>26</u>	Twp.	<u>31S</u>	Rge.	<u>20W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies	<u>Rep</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) _____

Interval Tested	<u>4962-5102</u>	Initial Str Wt./Lbs.	<u>80000</u>	Unseated Str Wt./Lbs.	<u>82000</u>	
Anchor Length	<u>140'</u>	Tool = <u>27'</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>8000</u>
Top Packer Depth	<u>4957</u>	Tool Weight	<u>3800</u>			
Bottom Packer Depth	<u>4962</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"		
Total Depth	<u>5102</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>353</u>	
Mud Wt.	<u>9.0</u>	LCM <u>24</u>	Vis. <u>51</u>	WL <u>7.6</u>	Drill Pipe Size <u>4 1/2 KH.</u>	
Blow Description	<u>Strong Obstruction. GTS in 5 min. See Flow Chart. I.F.P.</u>					
	<u>No blow-back. I.S.T.P.</u>					
	<u>See Flow Chart F.F.P.</u>					
	<u>No blow-back. F.S.T.P.</u>					

Recovery — Total Feet	<u>610</u>	GIP	<u>4346</u>	Ft. in DC	<u>353</u>	Ft. in DP	<u>257</u>
Rec.	<u>150</u>	Feet Of	<u>51.6 gas cut mud</u>	<u>3</u> %gas	%oil	%water	<u>97</u> %mud
Rec.	<u>460</u>	Feet Of	<u>44.6 gas, 51.0 oil cut mud</u>	<u>38</u> %gas	<u>4</u> %oil	%water	<u>58</u> %mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>116</u>	°F Gravity		°API D@		°F Corrected Gravity	
RW	<u>—</u>	@	<u>—</u>	°F Chlorides		ppm Recovery	Chlorides <u>4200</u> ppm System

(A) Initial Hydrostatic Mud	<u>2488</u>	AK-1	<u>2394</u>	Alpine	PSI	Recorder No.	<u>3017 "17:20"</u>	T-On Location	<u>16:00</u>
(B) First Initial Flow Pressure	<u>631</u>		<u>499</u>		PSI	(depth)	<u>4964</u>	T-Started	<u>5:20 P.M.</u>
(C) First Final Flow Pressure	<u>527</u>		<u>441</u>		PSI	Recorder No.	<u>10242</u>	T-Open	<u>7:25 P.M.</u>
(D) Initial Shut-In Pressure	<u>1711</u>		<u>1688</u>		PSI	(depth)	<u>5099</u>	T-Pulled	<u>11:10 P.M.</u>
(E) Second Initial Flow Pressure	<u>547</u>		<u>524</u>		PSI	Recorder No.	<u>—</u>	T-Out	<u>2:00 A.M.</u>
(F) Second Final Flow Pressure	<u>506</u>		<u>439</u>		PSI	(depth)	<u>—</u>	T-Off Location	
(G) Final Shut-in Pressure	<u>1741</u>		<u>1721</u>		PSI	Initial Opening	<u>30</u>	Test	<u>1900</u> ✓
(Q) Final Hydrostatic Mud	<u>2479</u>		<u>2389</u>		PSI	Initial Shut-in	<u>45</u>	Jars	<u>200</u> ✓
						Final Flow	<u>60</u>	Safety Joint	<u>50</u> ✓
						Final Shut-in	<u>90</u>	Straddle	

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Approved By _____

Our Representative Ernie L. Salge

Circ. Sub/ _____
Sampler _____
Extra Packer _____
Elec. Rec. 150 ✓
Mileage 65 ✓
Other _____
TOTAL PRICE \$ 4365.00