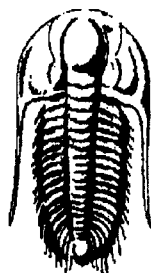


15-033-21254



**TRILOBITE  
TESTING, INC.**

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MAY 02 2002  
KCC WICHITA

## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Al Downing

**6-32S-18W Comanche**

**Brass "1-6"**

Start Date: 2001.10.07 @ 10:12:06

End Date: 2001.10.07 @ 19:12:51

Job Ticket #: 14939                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

American Warrior Inc.

Brass "1-6"

6-32S-18W Comanche

DST # 1

Mississippi

2001.10.07



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

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

**Brass "1-6"**  
**6-32S-18W Comanche**  
Job Ticket: 14939      **DST#: 1**  
Test Start: 2001.10.07 @ 10:12:06

## GENERAL INFORMATION:

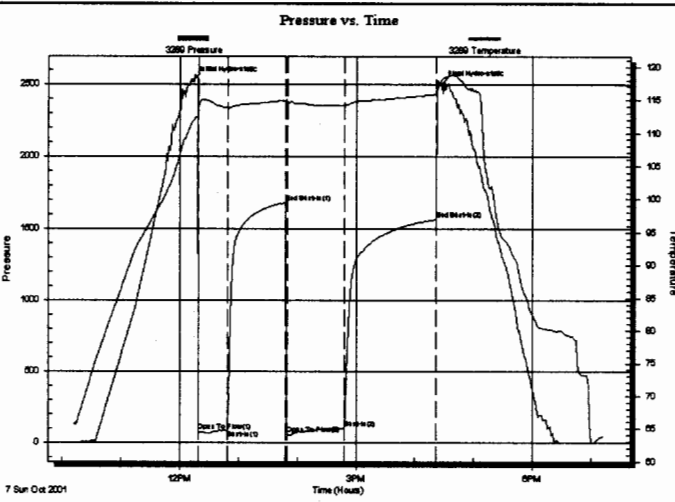
Formation: **Mississippi**  
Deviated: **No Whipstock:**      ft (KB)  
Time Tool Opened: 12:19:06  
Time Test Ended: 19:12:51  
Test Type: **Conventional Bottom Hole**  
Tester: **Lanny Saloga**  
Unit No: **14**  
Interval: **5161.00 ft (KB) To 5217.00 ft (KB) (TVD)**  
Reference Elevations:      2130.00 ft (KB)  
Total Depth: **5217.00 ft (KB) (TVD)**      2117.00 ft (CF)  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**      KB to GR/CF: **13.00 ft**

## Serial #: 3289

**Inside**

Press@RunDepth:      98.92 psig @      5166.00 ft (KB)      Capacity:      7000.00 psig  
Start Date:      2001.10.07      End Date:      2001.10.07      Last Calib.:      2001.01.08  
Start Time:      10:12:11      End Time:      19:12:51      Time On Btrn:      2001.10.07 @ 12:13:06  
Time Off Btrn:      2001.10.07 @ 16:25:51

**TEST COMMENT:** IF: Strong BOB in 20 sec. GTS in 9 min. See flow-chart.  
IS: Surface blow-back.  
FF: See flow chart. "Gas burned."  
FSI: No blow-back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2525.82	111.79	Initial Hydro-static
6	79.97	113.98	Open To Flow (1)
36	85.72	113.79	Shut-In(1)
95	1680.91	114.96	End Shut-In(1)
97	60.37	114.62	Open To Flow (2)
155	98.92	114.20	Shut-In(2)
248	1565.83	115.87	End Shut-In(2)
253	2501.07	117.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	Gassy OcM 20%G 30%O 50%M	0.59
120.00	Very sli O&GcM 8%G 2%O 90%M	0.59
4913.00	GIP	67.84

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.25	25.00	62.50
Max. Gas Rate	0.25	25.00	62.50



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**TOOL DIAGRAM**

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

**Brass "1-6"**  
**6-32S-18W Comanche**  
Job Ticket: 14939      **DST#: 1**  
Test Start: 2001.10.07 @ 10:12:06

**Tool Information**

Drill Pipe:	Length: 4795.00 ft	Diameter: 3.80 inches	Volume: 67.26 bbl	Tool Weight: 2300.00 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: 358.00 ft	Diameter: 2.25 inches	Volume: 1.76 bbl	Weight to Pull Loose: 3000.00 lb
			<u>Total Volume: 69.02 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	5161.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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**KCC WICHITA**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5135.00	
S.I. Tool	5.00			5140.00	
HMV	5.00			5145.00	
Jars	5.00			5150.00	
Safety Joint	2.00			5152.00	
Packer	4.00			5156.00	27.00      Bottom Of Top Packer
Packer	5.00			5161.00	
Stubb	1.00			5162.00	
Perforations	4.00			5166.00	
Recorder	0.00	3289	Inside	5166.00	
Perforations	15.00			5181.00	
C.O. Sub	1.00			5182.00	
Blank Spacing	32.00			5214.00	
Recorder	0.00	10242	Inside	5214.00	
C.O. Sub	1.00			5215.00	
Bullnose	2.00			5217.00	56.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>83.00</b>				



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**Brass "1-6"**

PO Box 399  
Garden City, KS 67846

**6-32S-18W Comanche**

Job Ticket: 14939

**DST#: 1**

ATTN: Al Downing

Test Start: 2001.10.07 @ 10:12:06

### 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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.96 in<sup>3</sup>

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
120.00	Gassy OcM 20%G 30%O 50%M	0.590
120.00	Very sli O&GcM 8%G 2%O 90%M	0.590
4913.00	GIP	67.842

Total Length: 5153.00 ft

Total Volume: 69.022 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: 1

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

American Warrior Inc.

**Brass "1-6"**

PO Box 399  
Garden City, KS 67846

**6-32S-18W Comanche**

Job Ticket: 14939

**DST#: 1**

ATTN: Al Downing

Test Start: 2001.10.07 @ 10:12:06

### Gas Rates Information

Temperature: 59 deg C

Relative Density: 0.65

Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	10	0.25	6.00	32.36
1	10	0.25	6.00	32.36
1	20	0.25	14.00	45.05
1	30	0.25	21.00	56.16
2	10	0.25	13.00	43.47
2	20	0.25	20.00	54.57
2	30	0.25	23.00	59.33
2	40	0.25	24.00	60.92
2	50	0.25	25.00	62.50

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KCC WICHITA

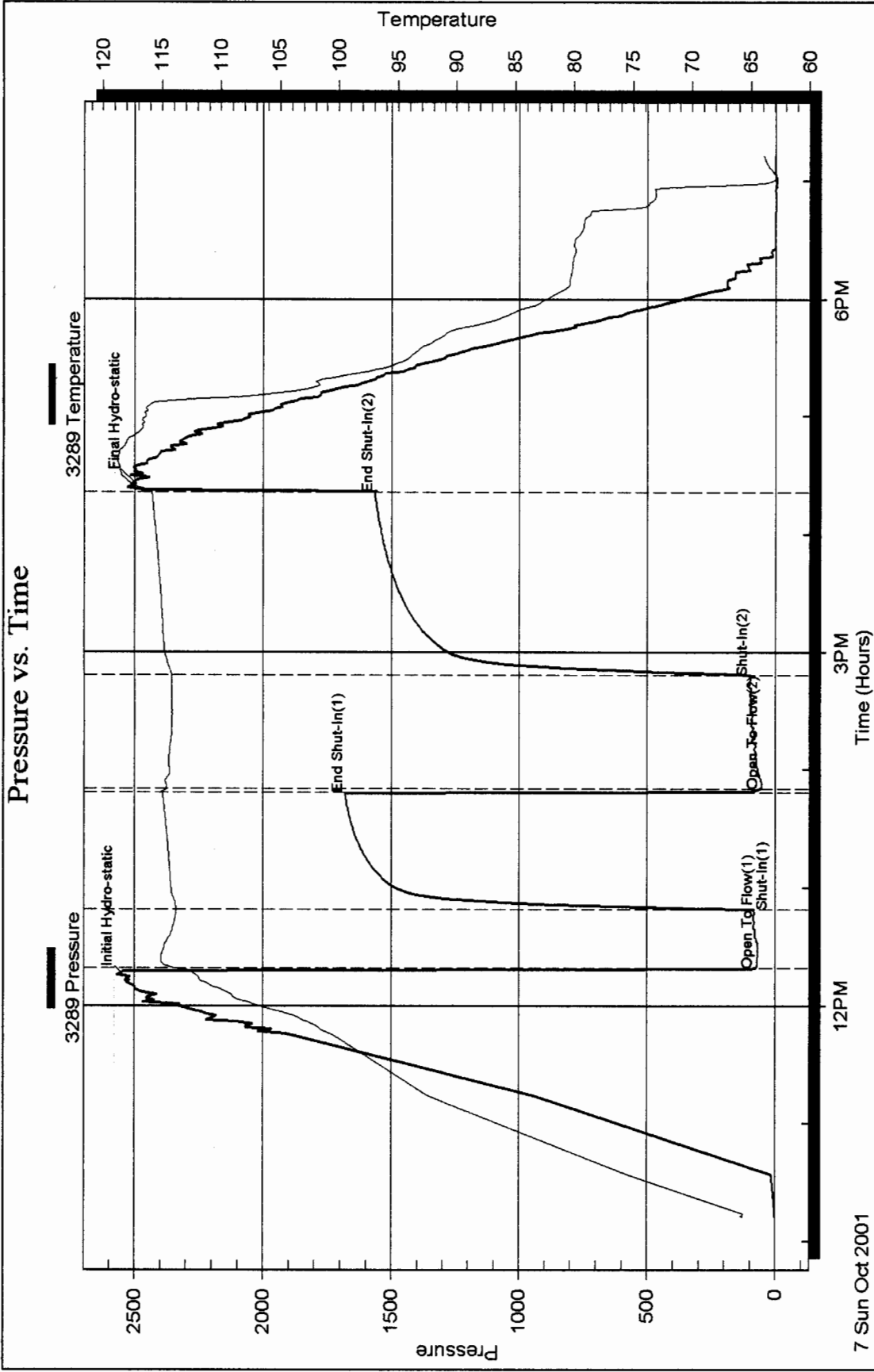
Serial #: 3289

Inside

American Warrior Inc.

6-32S-18W Comanche

DST Test Number: 1



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MAY 02 2002  
KCC WICHITA

## 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: 20015003      Analyzed: 10/13/01

Sample From: Brass 1-6 DST 1      Pressure:  
Producer: American Warrior, Inc.      Temperature:

Date: 10/07/01      Location: 6-32-18

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

	Mole %	GPM
Helium	He: 0.241	0.000
Hydrogen	H2: 0.003	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.710	0.000
Carbon Dioxide	CO2: 0.021	0.000
Methane	C1: 89.845	0.000
Ethane	C2: 3.266	0.873
Propane	C3: 1.311	0.361
Iso Butane	iC4: 0.223	0.073
Normal Butane	nC4: 0.556	0.175
Iso Pentane	iC5: 0.244	0.089
Normal Pentane	nC5: 0.311	0.113
Hexanes Plus	C6+: 1.269	0.554

TOTAL: 100.000      2.239

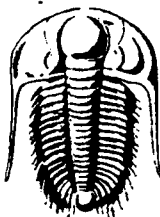
Z Fact: 0.9974  
SP.GR.: 0.6506

BTU (SAT): 1096.9 @ 14.73 psia  
BTU (DRY): 1116.3 @ 14.73 psia

**OCTANE RATING: 122.7**

COMMENTS:

0.000



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14939

## Test Ticket

Well Name & No. Brass "1-6" Test No. 1 Date 10-7-01  
 Company American Warrior Inc. Zone Tested Miss  
 Address G.C. KS 62846 Elevation 2130 KB 2117 GL  
 Co. Rep / Geo. Al Downing Cont. Duke Rig 7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 6 Twp. 32S Rge. 18W Co. Camarache State KS  
 No. of Copies Req. Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)     

Interval Tested 5161-5217 Initial Str Wt./Lbs. 79000 Unseated Str Wt./Lbs. 80000  
 Anchor Length 56' Tool=27' Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 3000  
 Top Packer Depth 5156 Tool Weight 2,300  
 Bottom Packer Depth 5161 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 5217 Wt. Pipe Run      Drill Collar Run 358  
 Mud Wt. 9.2 LCM 2# Vis. 50 WL 8.0 Drill Pipe Size 4 1/2 NH Ft. Run 4795 19' up

Blow Description Strong OBB in 20 sec. GTS in 9 min. See flow chart. F.S.P.  
Surface blow-back. F.S.P.  
See flow chart. F.S.P.  
No blow-back. F.S.P.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>240</u>	<u>4,913</u>	<u>240</u>	<u>0</u>
Rec. <u>120</u> Feet Of <u>Very sl. Oil G.M</u>		<u>8</u> %gas <u>2</u> %oil	%water <u>90</u> %mud
Rec. <u>120</u> Feet Of <u>Gassy Oil G.M</u>		<u>20</u> %gas <u>30</u> %oil	%water <u>50</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>		%gas <u>    </u> %oil	%water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>		%gas <u>    </u> %oil	%water <u>    </u> %mud
Rec. <u>    </u> Feet Of <u>    </u>		%gas <u>    </u> %oil	%water <u>    </u> %mud

BHT      °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 4000 ppm System

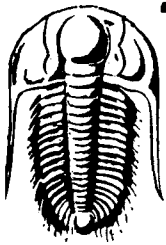
	AK-1	Alpine	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2525</u>	PSI	<u>3289 "10-12"</u>	<u>8:20 AM.</u>
(B) First Initial Flow Pressure	<u>79</u>	PSI	(depth) <u>5166</u>	T-Started <u>10:13 AM.</u>
(C) First Final Flow Pressure	<u>85</u>	PSI	Recorder No. <u>10242</u>	T-Open <u>12:20 PM</u>
(D) Initial Shut-In Pressure	<u>1680</u>	PSI	(depth) <u>5214</u>	T-Pulled <u>4:20 P.M.</u>
(E) Second Initial Flow Pressure	<u>60</u>	PSI	Recorder No. <u>    </u>	T-Out <u>7:25 P.M.</u>
(F) Second Final Flow Pressure	<u>98</u>	PSI	(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	<u>1565</u>	PSI	Initial Opening <u>30</u>	Test <u>900</u> ✓
(Q) Final Hydrostatic Mud	<u>2501</u>	PSI	Initial Shut-in <u>60</u>	Jars <u>200</u> ✓
			Final Flow <u>60</u>	Safety Joint <u>150</u> ✓
			Final Shut-in <u>90</u>	Straddle <u>    </u>
				Circ. Sub <u>    </u>
				Sampler <u>    </u>
				Extra Packer <u>    </u>
				Elec. Rec. <u>150</u> ✓
				Mileage <u>60</u> ✓
				Other <u>30</u> Hg. ✓
				TOTAL PRICE \$ <u>1,390</u> <sup>00</sup>

A0711012.289

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]



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

## GAS VOLUME REPORT

American Warrior  
OPERATOR

Brass "1-6"  
WELL NAME AND NO.

1  
DST NO.

BTS 9 min. into I.F.P.

I.F.P.

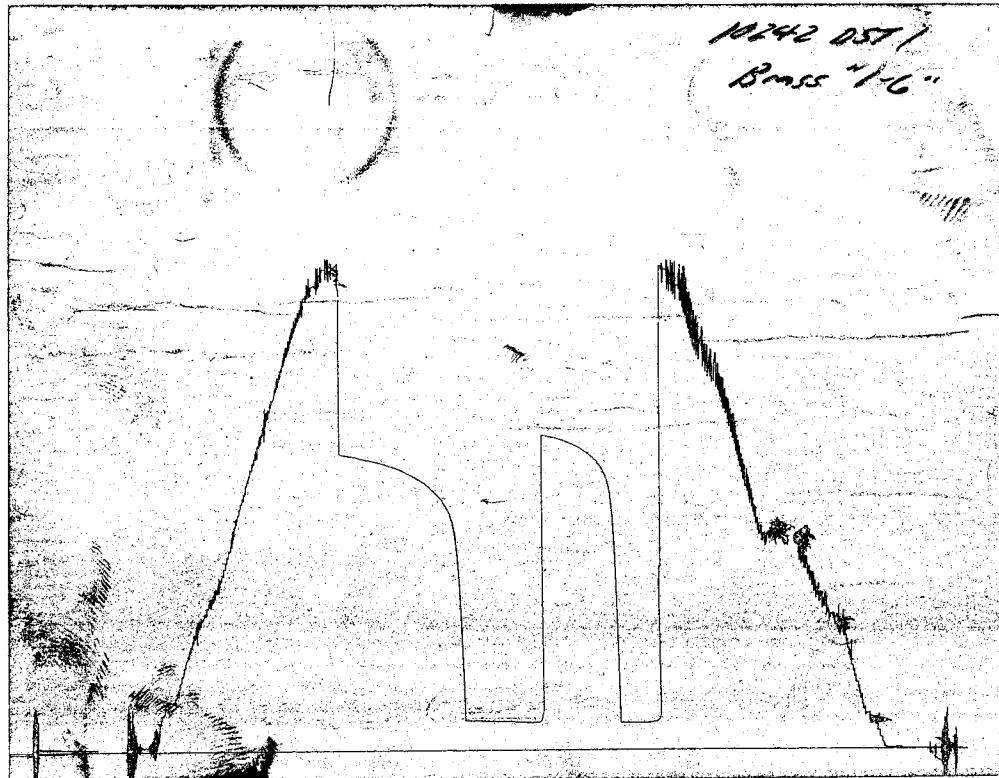
F.F.P.

Min.	Ins. of Water (PSIG)	Orifice Size	CF/D	Min.	Ins. of Water (PSIG)	Orifice Size	CF/D
10	6	1/4"	30,400	10	13	1/4"	40,600
20	14	"	42,100	20	20	"	50,900
30	21	"	52,400	30	23	"	55,300
				40	24	"	56,800
				50	25	"	58,300
				60	25	"	"
<u>COMPUTER I.F.P.</u>				<u>COMPUTER F.F.P.</u>			
10			32,363	10			43,467
20			45,054	20			54,572
30			56,159	30			59,331
				40			60,918
				50			62,504
				60			62,504

Remarks: Gas burned.  
1 sample to Caraway

# CHART PAGE

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





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67846

ATTN: Al Downing

**6-32S-18W Comanche**

**Brass "1-6"**

Start Date: 2001.10.09 @ 13:16:12

End Date: 2001.10.09 @ 21:48:57

Job Ticket #: 14940                      DST #: 2

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KCC WICHITA**

American Warrior Inc.

Brass "1-6"

6-32S-18W Comanche

DST # 2

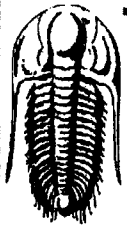
Viola

2001.10.09

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.  
PO Box 399  
Garden City, KS 67846  
ATTN: Al Downing

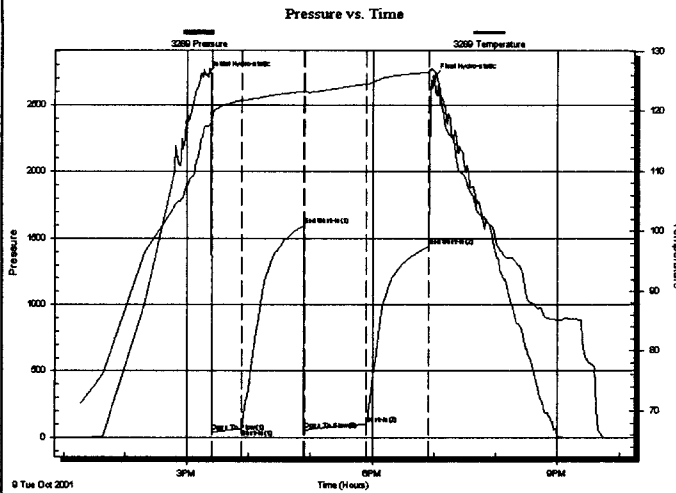
**Brass "1-6"**  
**6-32S-18W Comanche**  
Job Ticket: 14940      **DST#: 2**  
Test Start: 2001.10.09 @ 13:16:12

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: **No Whipstock:**                      ft (KB)  
Time Tool Opened: 15:24:42  
Time Test Ended: 21:48:57  
Test Type: **Conventional Bottom Hole**  
Tester: **Lanny Saloga**  
Unit No: **14**  
Interval: **5646.00 ft (KB) To 5672.00 ft (KB) (TVD)**  
Reference Elevations:                      2130.00 ft (KB)  
Total Depth: **5672.00 ft (KB) (TVD)**                      2117.00 ft (CF)  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**                      KB to GR/CF:                      13.00 ft

**Serial #: 3289**      **Inside**  
Press@RunDepth:      100.76 psig @      5650.00 ft (KB)      Capacity:                      7000.00 psig  
Start Date:      2001.10.09      End Date:                      2001.10.09      Last Calib.:                      2001.01.10  
Start Time:      13:16:17      End Time:                      21:48:57      Time On Btm:      2001.10.09 @ 15:19:12  
Time Off Btm:      2001.10.09 @ 18:59:27

**TEST COMMENT:** F: Strong OBB in 90 sec.  
IS: No blow-back.  
FF: Strong immed. GTS in 34 min. See flow chart.  
FS: No blow-back. "Gas burned."



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2726.25	117.49	Initial Hydro-static
6	44.48	118.69	Open To Flow (1)
35	66.79	121.80	Shut-In(1)
95	1595.51	123.34	End Shut-In(1)
95	56.72	123.36	Open To Flow (2)
155	100.76	124.55	Shut-In(2)
216	1437.52	126.49	End Shut-In(2)
221	2708.59	126.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
160.00	McGassyO 35%G 35%O 30%M	0.79
20.00	Slit OcGassyM 12%G 3%O 85%M	0.10
5472.00	GIP	75.14

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	1.40	5.91
Max. Gas Rate	0.13	1.40	5.91



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

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

**Brass "1-6"**  
**6-32S-18W Comanche**  
Job Ticket: 14940      **DST#: 2**  
Test Start: 2001.10.09 @ 13:16:12

**Tool Information**

Drill Pipe:	Length: 5294.00 ft	Diameter: 3.80 inches	Volume: 74.26 bbl	Tool Weight: 1800.00 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: 358.00 ft	Diameter: 2.25 inches	Volume: 1.76 bbl	Weight to Pull Loose: 6000.00 lb
			<u>Total Volume: 76.02 bbl</u>	Tool Chased: ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 83000.00 lb
Depth to Top Packer:	5646.00 ft			Final 84000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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**MAY 02 2002**  
**KCC WICHITA**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5620.00	
S.I. Tool	5.00			5625.00	
HMV	5.00			5630.00	
Jars	5.00			5635.00	
Safety Joint	2.00			5637.00	
Packer	4.00			5641.00	27.00      Bottom Of Top Packer
Packer	5.00			5646.00	
Stubb	1.00			5647.00	
Perforations	3.00			5650.00	
Recorder	0.00	3289	Inside	5650.00	
Perforations	20.00			5670.00	
Recorder	0.00	10242	Inside	5670.00	
Bullnose	2.00			5672.00	26.00      Bottom Packers & Anchor

**Total Tool Length: 53.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**Brass "1-6"**  
**6-32S-18W Comanche**  
Job Ticket: 14940      **DST#: 2**  
Test Start: 2001.10.09 @ 13:16:12

**Mud and Cushion Information**

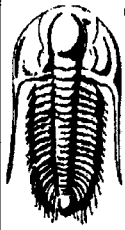
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.16 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
160.00	McGassyO 35%G 35%O 30%M	0.787
20.00	Sli OcGassyM 12%G 3%O 85%M	0.098
5472.00	GIP	75.136

Total Length: 5652.00 ft      Total Volume: 76.021 bbl  
 Num Fluid Samples: 1      Num Gas Bombs: 2      Serial #: 2  
 Laboratory Name: Caraway      Laboratory Location: Liberal KS  
 Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

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

**Brass "1-6"**  
**6-32S-18W Comanche**  
Job Ticket: 14940      **DST#: 2**  
Test Start: 2001.10.09 @ 13:16:12

### Gas Rates Information

Temperature:            59 deg C  
Relative Density:      0.65  
Z Factor:                0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
2	40	0.13	1.00	5.76
2	40	0.13	1.00	5.76
2	50	0.13	1.40	5.91

**RECEIVED**  
**MAY 02 2002**  
**KCC WICHITA**

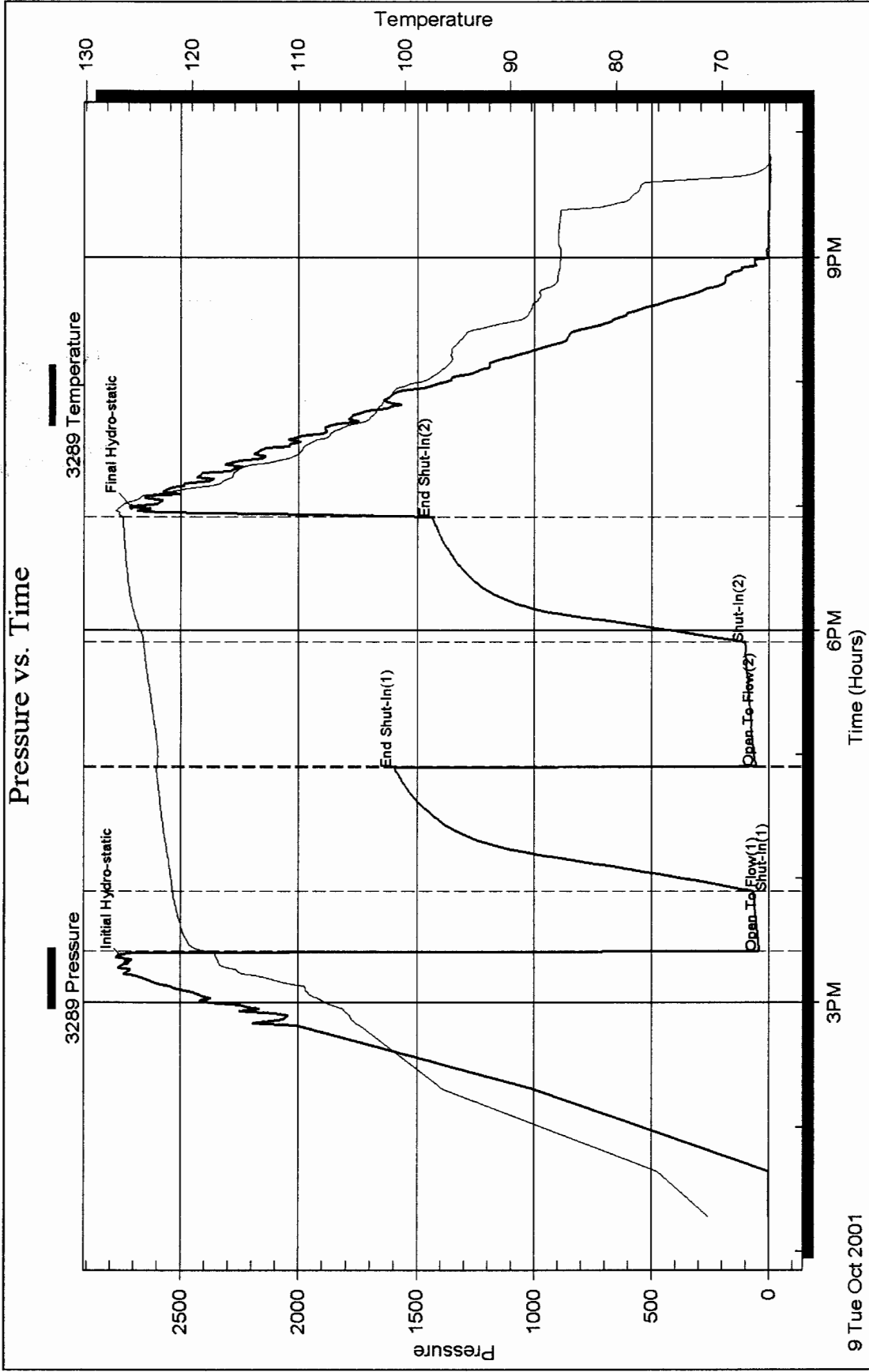
Serial #: 3289

Inside

American Warrior Inc.

6-32S-18W Comanche

DST Test Number: 2



RECEIVED  
MAY 02 2002  
KCC WICHITA

# 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: 20015004 Analyzed: 10/13/01

Sample From: Brass 1-6 DST 2 Pressure:  
Producer: American Warrior, Inc. Temperature:

Date: 10/09/01 Location: 6-32-18

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

	Mole %	GPM
Helium	He: 0.080	0.000
Hydrogen	H2: 0.009	0.000
Oxygen	O2: 0.031	0.000
Nitrogen	N2: 5.285	0.000
Carbon Dioxide	CO2: 0.080	0.000
Methane	C1: 59.344	0.000
Ethane	C2: 9.296	2.486
Propane	C3: 10.584	2.916
Iso Butane	iC4: 2.343	0.766
Normal Butane	nC4: 5.958	1.878
Iso Pentane	iC5: 1.571	0.575
Normal Pentane	nC5: 2.175	0.788
Hexanes Plus	C6+: 3.244	1.415

**TOTAL: 100.000 10.825**

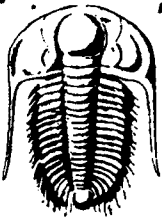
Z Fact: 0.9932  
SP.GR.: 1.0107

BTU (SAT): 1603.6 @ 14.73 psia  
BTU (DRY): 1632.0 @ 14.73 psia

**OCTANE RATING: 107.8**

COMMENTS:

0.031



# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 14940

## Test Ticket

Well Name & No. Bass "1-6" Test No. 2 Date 10-9-01  
 Company American Warrior Inc. Zone Tested Viola  
 Address G.C. KS 67846 Elevation 2130 KB 2117 GL  
 Co. Rep / Geo. Al Denning Cont. Duke Rig 7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 6 Twp. 32S Rge. 18W Co. Crawford State KS  
 No. of Copies Req Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)     

Interval Tested 5646-5672 Initial Str Wt./Lbs. 83,000 Unseated Str Wt./Lbs. 84,000  
 Anchor Length 26' Tol = 27' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 6,000  
 Top Packer Depth 5641 Tool Weight 1,800  
 Bottom Packer Depth 5646 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 5672 Wt. Pipe Run      Drill Collar Run 358  
 Mud Wt. 9.2 LCM 4# Vis. 55 WL 9.2 Drill Pipe Size 4 1/2 XH Ft. Run 5294 33 1/2

Blow Description Stung OBB in 90. sec. F.F.P.  
No blow-back. F.S.T.P.  
Stung in 34 min. 500 ft. chart. F.F.P.  
No blow-back. F.S.T.P.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>180</u>	<u>5,472</u>	<u>180</u>	<u>0</u>
Rec. <u>20</u> Feet Of <u>56-00 Gassy M</u>	<u>12</u> %gas	<u>3</u> %oil	<u>85</u> %water
Rec. <u>160</u> Feet Of <u>McGassy O</u>	<u>35</u> %gas	<u>35</u> %oil	<u>30</u> %mud
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil	<u>    </u> %water
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil	<u>    </u> %water
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas	<u>    </u> %oil	<u>    </u> %water

BHT 126 °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 4,000 ppm System

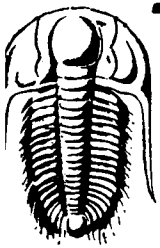
	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2786</u>	<u>2786</u>	<u>    </u>	<u>3289 "13-16"</u>	<u>12:30 P.M.</u>
(B) First Initial Flow Pressure	<u>44</u>	<u>44</u>	<u>    </u>	(depth) <u>5650</u>	T-Started <u>1:16 P.M.</u>
(C) First Final Flow Pressure	<u>66</u>	<u>66</u>	<u>    </u>	Recorder No. <u>10242</u>	T-Open <u>3:25 P.M.</u>
(D) Initial Shut-In Pressure	<u>15.25</u>	<u>15.25</u>	<u>    </u>	(depth) <u>5669</u>	T-Pulled <u>6:55 P.M.</u>
(E) Second Initial Flow Pressure	<u>56</u>	<u>56</u>	<u>    </u>	Recorder No. <u>    </u>	T-Out <u>9:50 P.M.</u>
(F) Second Final Flow Pressure	<u>100</u>	<u>100</u>	<u>    </u>	(depth) <u>    </u>	T-Off Location <u>    </u>
(G) Final Shut-in Pressure	<u>1437</u>	<u>1437</u>	<u>    </u>	Initial Opening <u>30</u>	Test <u>900</u> ✓
(Q) Final Hydrostatic Mud	<u>2708</u>	<u>2708</u>	<u>    </u>	Initial Shut-in <u>60</u>	Jars <u>200</u> ✓
			<u>    </u>	Final Flow <u>60</u>	Safety Joint <u>50</u> ✓
			<u>    </u>	Final Shut-in <u>60</u>	Straddle <u>    </u>
			<u>    </u>		Circ. Sub <u>    </u>
			<u>    </u>		Sampler <u>    </u>
			<u>    </u>		Extra Packer <u>    </u>
			<u>    </u>		Elec. Rec. <u>150</u> ✓
			<u>    </u>		Mileage <u>60</u> ✓
			<u>    </u>		Other <u>    </u>

10911316.289  
 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]

TOTAL PRICE \$ 4,360.00



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

## GAS VOLUME REPORT

*American Nuclear Inc*  
OPERATOR

*Boass "1-6"*  
WELL NAME AND NO.

*2*  
DST NO.

*675 3/4 min. into F.F.P.*

<i>T.F.P.</i>				<i>F.F.P.</i>			
Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water (PSIG)	Orifice Size	CF/D
				40	1	1/8"	5,400
		<i>No Gas</i>		50	1.4	"	> 5,400
			55	1.6	"	> 5,400	
			60	<i>Pressure up Gas bottle</i>			
				<i>Computer Readings</i>			
				40			5,764
				50			5,914
				55			5,989

Remarks: *Gas burned.  
1 sample to Corrosy.*

# CHART PAGE

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

