

ORIGIN

CONFIDENTIAL 23-31S-15W

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ORIGINAL

DRILL STEM TEST REPORT

KCC  
MAY 06 2002  
CONFIDENTIAL

Prepared For: American Warrior, Inc.

P.O.Box 399  
Garden City, KS 67846-0399

ATTN: Alan Downing

23-31S-15w

Bear Creek#2

Start Date: 2001.04.20 @ 04:03:59

End Date: 2001.04.20 @ 12:40:14

Job Ticket #: 15705 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

American Warrior, Inc.

Bear Creek#2

23-31S-15w

DST # 1

Douglas Sand

2001.04.20



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

American Warrior, Inc.  
 P.O.Box 399  
 Garden City, KS 67846-0399  
 ATTN: Alan Downing

**Bear Creek#2**  
**23-31S-15w**  
 Job Ticket: 15705  
 DST#: 1  
 Test Start: 2001.04.20 @ 04:03:59

### GENERAL INFORMATION:

Formation: **JAWA** Douglas Sand  
 Deviated: **No** Whipskote ft (KB)  
 Time Tool Opened: 06:14:14  
 Time Test Ended: 12:40:14

**KCC**

Test Type: Conventional Bottom Hole  
 Tester: Darren L. Amerine  
 Unit No: 19

Interval: **3940.00 ft (KB) To 3996.00 ft (KB) (TVD)**  
 Total Depth: **3996.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Poor

**MAY 06 2002**

Reference Elevations: 1736.00 ft (KB)  
 1723.00 ft (CF)  
 KB to GR/CF: 13.00 ft

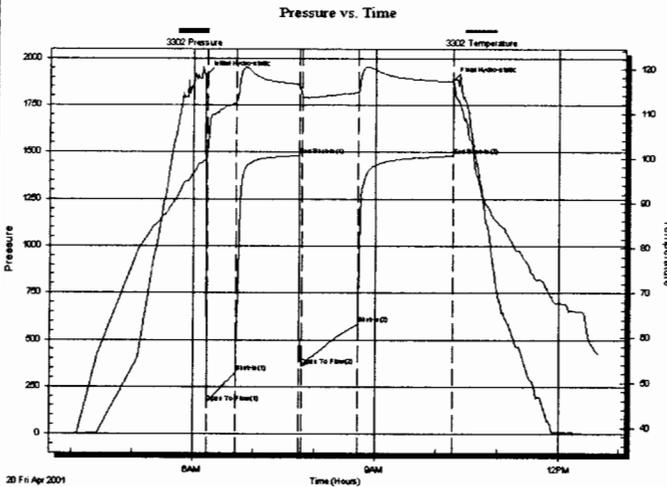
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Serial #: **3302** Inside

Press@RunDepth: 584.80 psig @ 3941.00 ft (KB)  
 Start Date: 2001.04.20 End Date: 2001.04.20  
 Start Time: 04:04:01 End Time: 12:40:14

Capacity: 7000.00 psig  
 Last Calib.: 2002.03.20  
 Time On Btm: 2001.04.20 @ 06:12:59  
 Time Off Btm: 2001.04.20 @ 10:16:44

TEST COMMENT: IF: Strong blow b.o.b in 40 sec. GTS in 6 min. gauge gas.  
 IS: Bled down n for 20 min. built back to b.o.b in 5 min.  
 FF: Strong blow b.o.b in 15 sec. gauge gas.  
 FS: Bled down n for 80 min. built back to 1" in



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.14	99.66	Initial Hydro-static
2	161.56	101.50	Open To Flow (1)
30	323.82	112.38	Shut-In(1)
92	1482.46	116.28	End Shut-In(1)
94	361.50	113.68	Open To Flow (2)
150	584.80	114.57	Shut-In(2)
244	1479.14	117.06	End Shut-In(2)
244	1883.37	117.46	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
1195.00	153 - Salt Water	13.33
180.00	502 - Mud and Oil and Gas cut Salt Water	2.52
2556.00	01 - Gas	35.85

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	7.00	144.36
Last Gas Rate	0.50	14.50	194.95
Max. Gas Rate	0.50	16.00	205.07



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.  
P.O.Box 399  
Garden City, KS 67846-0399  
ATTN: Alan Downing

**Bear Creek#2**  
**23-31S-15w**  
Job Ticket: 15705      **DST#: 1**  
Test Start: 2001.04.20 @ 04:03:59

**Tool Information**

Drill Pipe:	Length: 3554.72 ft	Diameter: 3.80 inches	Volume: 49.86 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: 377.28 ft	Diameter: 2.25 inches	Volume: 1.86 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 51.72 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 73000.00 lb
Depth to Top Packer:	3940.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	84.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
C.O. Sub	1.00			3913.00		
S.I. Tool	5.00			3918.00		
HMV	5.00			3923.00		
Jars	5.00			3928.00		
Safety Joint	2.00			3930.00		
Packer	5.00			3935.00	28.00	Bottom Of Top Packer
Packer	5.00			3940.00		
Stubb	1.00			3941.00		
Recorder	0.00	3302	Inside	3941.00		
Anchor	20.00			3961.00		
Blank Spacing	32.00			3993.00		
Recorder	0.00	13769	Outside	3993.00		
Bullnose	3.00			3996.00	56.00	Bottom Packers & Anchor

**Total Tool Length: 84.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

American Warrior, Inc.  
P.O.Box 399  
Garden City, KS 67846-0399  
ATTN: Alan Downing

**Bear Creek#2**  
**23-31S-15w**  
Job Ticket: 15705      **DST#: 1**  
Test Start: 2001.04.20 @ 04:03:59

**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: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 1.10 ohm.m	Gas Cushion Pressure: psig		
Salinity: 6300.00 ppm			
Filter Cake: 0.32 inches			

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
1195.00	153 - Salt Water	13.326
180.00	502 - Mud and Oil and Gas cut Salt Water	2.525
2556.00	01 - Gas	35.854

Total Length: 3931.00 ft      Total Volume: 51.705 bbl  
 Num Fluid Samples: 1      Num Gas Bombs: 0      Serial #:  
 Laboratory Name: Caraway      Laboratory Location: Liberal KS  
 Recovery Comments:



**TRILOBITE**  
**TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

American Warrior, Inc.  
P.O.Box 399  
Garden City, KS 67846-0399  
ATTN: Alan Downing

**Bear Creek#2**  
**23-31S-15w**  
Job Ticket: 15705      **DST#: 1**  
Test Start: 2001.04.20 @ 04:03:59

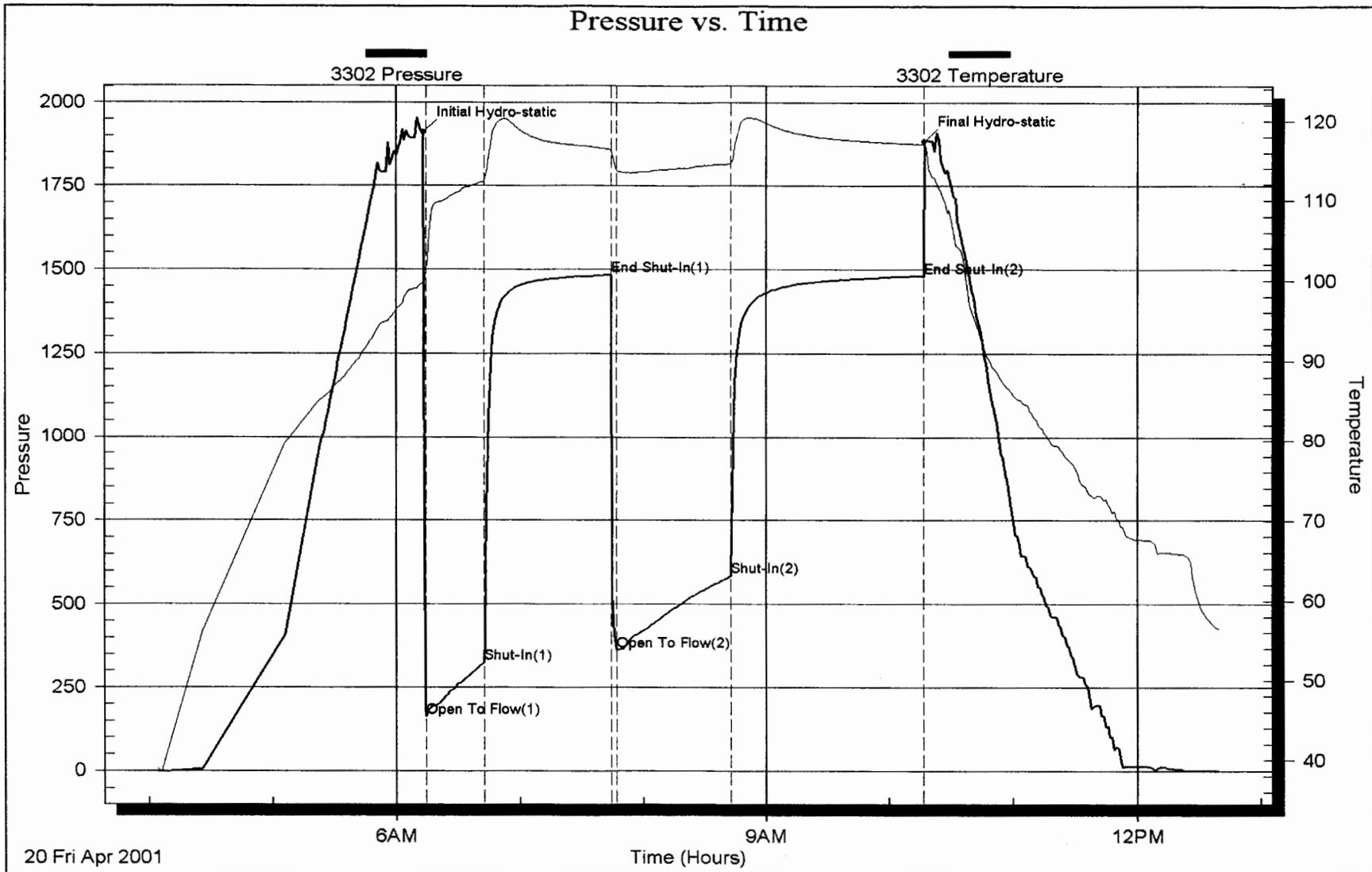
## Gas Rates Information

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

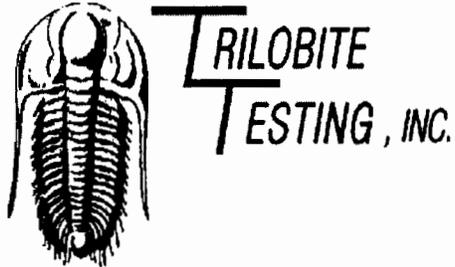
Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m <sup>3</sup> /d)
1	16	0.50	7.00	144.36
1	16	0.50	7.00	144.36
1	26	0.50	13.00	184.83
1	30	0.50	14.00	191.58
2	10	0.50	10.00	164.59
2	20	0.50	8.00	151.10
2	30	0.50	12.00	178.09
2	40	0.50	16.00	205.07
2	50	0.50	14.50	194.95

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## DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

P.O.Box 399  
Garden City, KS 67846-0399

ATTN: Alan Downing

**23-31S-15w**

**Bear Creek#2**

Start Date: 2002.03.21 @ 18:49:43

End Date: 2002.03.22 @ 02:55:58

Job Ticket #: 15770                      DST #: 2

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.  
P.O.Box 399  
Garden City, KS 67846-0399  
ATTN: Alan Downing

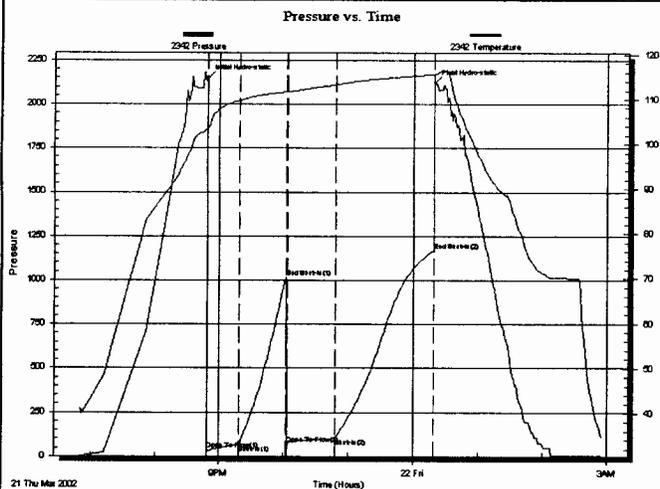
**Bear Creek#2**  
**23-31S-15w**  
Job Ticket: 15770      **DST#: 2**  
Test Start: 2002.03.21 @ 18:49:43

## GENERAL INFORMATION:

Formation: **Marmaton**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 20:49:13  
Time Test Ended: 02:55:58  
Test Type: **Conventional Bottom Hole**  
Tester: **Gary Pevoteaux**  
Unit No: **23**  
Interval: **4419.00 ft (KB) To 4457.00 ft (KB) (TVD)**  
Reference Elevations: **1736.00 ft (KB)**  
**1723.00 ft (CF)**  
Total Depth: **4457.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Poor**  
KB to GR/CF: **13.00 ft**

**Serial #: 2342**      **Inside**  
Press@RunDepth: **100.03 psig @ 4420.00 ft (KB)**      Capacity: **7000.00 psig**  
Start Date: **2002.03.21**      End Date: **2002.03.22**      Last Calib.: **2002.03.22**  
Start Time: **18:49:44**      End Time: **02:55:58**      Time On Btm: **2002.03.21 @ 20:48:28**  
Time Off Btm: **2002.03.22 @ 00:18:58**

**TEST COMMENT:** F:Strong blow . B.O.B. in 2 min.  
IS:No blow .  
FF:Strong blow . B.O.B. in 20 sec.  
FSI:Weak blow . 1- -1 1/2".



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2145.35	103.38	Initial Hydro-static
1	35.91	103.49	Open To Flow (1)
30	66.29	109.75	Shut-In(1)
74	1014.43	111.71	End Shut-In(1)
75	70.24	111.71	Open To Flow (2)
120	100.03	113.25	Shut-In(2)
211	1169.69	115.53	End Shut-In(2)
211	2120.09	115.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	GMCO 20%g 18%m 62%o	0.59
70.00	GOCM 5%g 10%o 85%m	0.34
0.00	3800 ft. of gas in pipe.	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior, Inc.  
P.O.Box 399  
Garden City, KS 67846-0399  
ATTN: Alan Downing

**Bear Creek#2**  
**23-31S-15w**  
Job Ticket: 15770      **DST#: 2**  
Test Start: 2002.03.21 @ 18:49:43

### Tool Information

Drill Pipe:	Length: 4037.00 ft	Diameter: 3.80 inches	Volume: 56.63 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:	21000.00 lb
Drill Collar:	Length: 366.00 ft	Diameter: 2.25 inches	Volume: 1.80 bbl	Weight to Pull Loose:	90000.00 lb
			<u>Total Volume: 58.43 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	4419.00 ft			Final	76500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	65.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

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Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4393.00	
S.I. Tool	5.00			4398.00	
HMV	5.00			4403.00	
Jars	5.00			4408.00	
Safety Joint	2.00			4410.00	
Packer	4.00			4414.00	27.00      Bottom Of Top Packer
Packer	5.00			4419.00	
Stubb	1.00			4420.00	
Recorder	0.00	2342	Inside	4420.00	
Perforations	32.00			4452.00	
Recorder	0.00	10248	Outside	4452.00	
Bullnose	5.00			4457.00	38.00      Bottom Packers & Anchor

**Total Tool Length: 65.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior, Inc.  
P.O.Box 399  
Garden City, KS 67846-0399  
ATTN: Alan Downing

**Bear Creek#2**  
**23-31S-15w**  
Job Ticket: 15770      **DST#: 2**  
Test Start: 2002.03.21 @ 18:49:43

### 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:	4000 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 0.20 inches			

### Recovery Information

Recovery Table

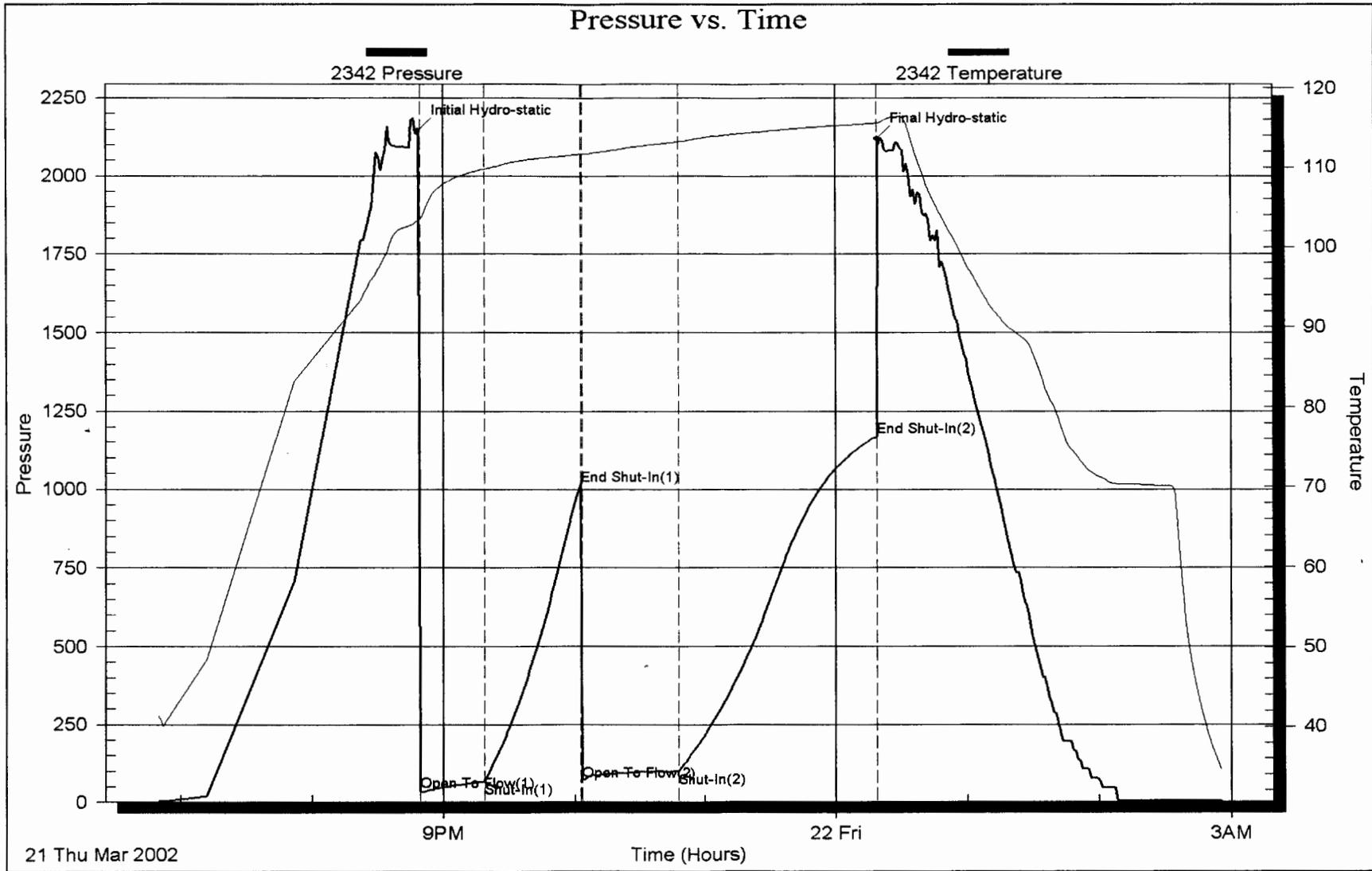
Length ft	Description	Volume bbl
120.00	GMCO 20%g 18%m 62%o	0.590
70.00	GOCM 5%g 10%o 85%m	0.344
0.00	3800 ft. of gas in pipe.	0.000

Total Length: 190.00 ft      Total Volume: 0.934 bbl

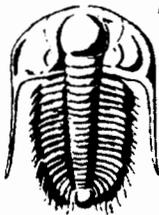
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #: none

Laboratory Name:      Laboratory Location:

Recovery Comments: LCM: 4#/bl



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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15705

## Test Ticket

Well Name & No. Bear Creek #2 Test No. #1 Date 03/20/02  
 Company American Warrior, Inc. Zone Tested Douglas Sand  
 Address P.O. box 399 Garden City, Ks. 67846-0399 Elevation 1736 KB 1723 GL  
 Co. Rep / Geo. Al Downing Cont. Duke #7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 315 Rge. 15<sup>W</sup> Co. Barber State Ks  
 No. of Copies 5 Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 3940' - 3996' Initial Str Wt/Lbs. 73,000 Unseated Str Wt/Lbs. 77,000  
 Anchor Length 56' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 80,000  
 Top Packer Depth 3935' Tool Weight 2100  
 Bottom Packer Depth 3940' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 3996' Wt. Pipe Run N/A Drill Collar Run 377.28  
 Mud Wt. 9.2+ LCM 8<sup>#</sup> Vis. 46 WL      Drill Pipe Size 4 1/2 x H Ft. Run 3554.72

Blow Description T. Strong blow b.o.b in 40 sec. BT.S in 6 mins. Gauge Gas  
T.S.I. Bled down for 20 mins. back to b.o.b in 5 mins.  
FF. Strong blow b.o.b in 15 sec. Gauge gas.  
F.S.I. Bled down for 80 mins. Built back to 1" int 120 bucket

Recovery — Total Feet 1375' GIP 2556' Ft. in DC 377' Ft. in DP       
 Rec. 180' Feet Of 50' GCM 4 %gas 2 %oil 34 %water 60 %mud  
 Rec. 1195' Feet Of 50' Salt Water 6 %gas %oil 94 %water %mud  
 Rec. 2556' Feet Of GIP %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 Rec.      Feet Of      %gas %oil %water %mud  
 BHT 117<sup>o</sup> °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW .2 @ 60 °F Chlorides 43,000 ppm Recovery Chlorides 5,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud		<u>1909</u>		<u>3302</u>	<u>0230</u>
(B) First Initial Flow Pressure		<u>162</u>		(depth) <u>3941'</u>	T-Started <u>0403</u>
(C) First Final Flow Pressure		<u>320</u>		PSI Recorder No. <u>13769</u>	T-Open <u>0540</u> 10.10
(D) Initial Shut-In Pressure		<u>1482</u>		(depth) <u>3993'</u>	T-Pulled <u>0940</u>
(E) Second Initial Flow Pressure		<u>362</u>		PSI Recorder No. <u>    </u>	T-Out <u>1240</u>
(F) Second Final Flow Pressure		<u>583</u>		(depth) <u>    </u>	T-Off Location <u>1315</u>
(G) Final Shut-in Pressure		<u>1481</u>		PSI Initial Opening <u>30</u>	Test <u>✓ 700</u>
(Q) Final Hydrostatic Mud		<u>1893</u>		PSI Initial Shut-in <u>60</u>	Jars <u>✓ 200</u>
				Final Flow <u>60</u>	Safety Joint <u>✓ 50</u>
				Final Shut-in <u>90</u>	Straddle <u>    </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 Daren & Corrine

Elec. Rec. ✓ 150  
 Mileage 40  
 Other 2 hrs 40  
 TOTAL PRICE \$ 1200

# NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing, Inc.  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 785-625-5620

Analyzed by:  
Caraway Analytical, Inc  
P. O. Box 2137  
Liberal, Kansas 67905  
Phone: 620-624-5389  
Fax: 620-626-7108

Lab Number: 20021228 Analyzed: 03/23/02

Sample From: Bear Creek 2 DST 1 Pressure:  
Producer: American Warrior Temperature:

Date: Location: 21-31-15

Time: County: Barber  
Sampler: State: Kansas  
Source: Formation: Doug Sand

	Mole %	GPM
Helium	He: 0.307	0.000
Hydrogen	H2: 0.001	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 16.295	0.000
Carbon Dioxide	CO2: 0.042	0.000
Methane	C1: 67.667	0.000
Ethane	C2: 6.928	1.853
Propane	C3: 4.956	1.366
Iso Butane	iC4: 0.695	0.227
Normal Butane	nC4: 1.599	0.504
Iso Pentane	iC5: 0.332	0.121
Normal Pentane	nC5: 0.461	0.167
Hexanes Plus	C6+: 0.717	0.313

TOTAL: 100.000 4.551

Z Fact: 0.9972

SP.GR.: 0.7722

BTU (SAT): 1060.8 @ 14.73 psia

BTU (DRY): 1079.6 @ 14.73 psia

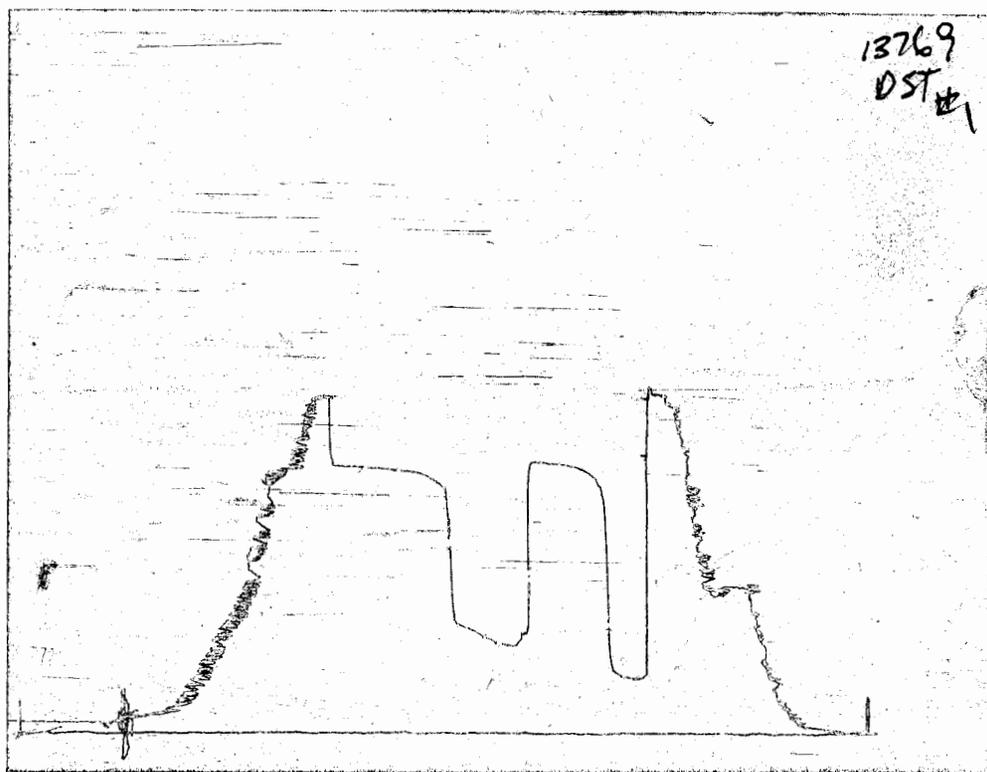
**OCTANE RATING: 102.7**

COMMENTS:

0.000

# CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15770

## Test Ticket

Well Name & No. Bear Creek #2 Test No. 2 Date 3-21-2002  
 Company American Warrior Inc. Zone Tested Marmaton  
 Address P.O. Box 399, Garden City, Ks. 67846 Elevation 1736 KB 1723 GL  
 Co. Rep / Geo. Al Dunning Cont. Duke Dwyer #7 Est. Ft. of Pay      Por.      %  
 Location: Sec. 23 Twp. 31 S Rge. 13 W Co. Barber State Ks.  
 No. of Copies 5 Distribution Sheet (Y, N) N Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 4419 - 4457' Initial Str Wt./Lbs. 76,000 Unseated Str Wt./Lbs. 76,500  
 Anchor Length 38' Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 90,000  
 Top Packer Depth 4414' Tool Weight 2100 #  
 Bottom Packer Depth 4419' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓  
 Total Depth 4457' Wt. Pipe Run None Drill Collar Run 366'  
 Mud Wt. 9.2 LCM 4# Vis. SS WL 6.8 cc. Drill Pipe Size 4 1/2" x H. Ft. Run 4037  
 Blow Description IF: Strong blow. B.O.B. in 2 mins. ISI: No blow

FF: Strong blow. B.O.B. in 20 secs. FSI: Weak blow. 1-1 1/2"

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>190</u>	<u>3800'</u>	<u>190</u>	<u>    </u>
Rec. <u>70</u> Feet Of <u>G-UCM</u>	<u>5</u> %gas <u>10</u> %oil	<u>    </u> %water <u>35</u> %mud	
Rec. <u>120</u> Feet Of <u>GMCO</u>	<u>20</u> %gas <u>62</u> %oil	<u>    </u> %water <u>18</u> %mud	
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas <u>    </u> %oil	<u>    </u> %water <u>    </u> %mud	
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas <u>    </u> %oil	<u>    </u> %water <u>    </u> %mud	
Rec. <u>    </u> Feet Of <u>    </u>	<u>    </u> %gas <u>    </u> %oil	<u>    </u> %water <u>    </u> %mud	

BHT 116 °F Gravity N/A °API D@      °F Corrected Gravity N/A °API  
 RW N/C @ °F Chlorides 4,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	PSI	Recorder No.	T-On Location
<u>    </u>	<u>2178</u>	<u>    </u>	<u>    </u>	<u>2342</u>	<u>1740</u>
(B) First Initial Flow Pressure	<u>36</u>	<u>    </u>	<u>    </u>	(depth) <u>4420'</u>	T-Started <u>1849</u>
(C) First Final Flow Pressure	<u>66</u>	<u>    </u>	<u>    </u>	Recorder No. <u>10248</u>	T-Open <u>2049</u> 9:15
(D) Initial Shut-In Pressure	<u>1014</u>	<u>    </u>	<u>    </u>	(depth) <u>4452'</u>	T-Pulled <u>0018</u>
(E) Second Initial Flow Pressure	<u>70</u>	<u>    </u>	<u>    </u>	Recorder No. <u>    </u>	T-Out <u>0255</u>
(F) Second Final Flow Pressure	<u>100</u>	<u>    </u>	<u>    </u>	(depth) <u>    </u>	T-Off Location <u>0340</u>
(G) Final Shut-in Pressure	<u>1170</u>	<u>    </u>	<u>    </u>	Initial Opening <u>30</u>	Test <u>✓</u> <u>800°</u>
(Q) Final Hydrostatic Mud	<u>2109</u>	<u>    </u>	<u>    </u>	Initial Shut-in <u>45</u>	Jars <u>✓</u> <u>200°</u>
				Final Flow <u>45</u>	Safety Joint <u>✓</u> <u>50°</u>
				Final Shut-in <u>90</u>	Straddle <u>    </u>
				<u>4</u>	Circ. Sub <u>    </u>
					Sampler <u>    </u>

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Approved By       
Our Representative Cam Peterson

SHALE — Extra Packer ✓ 150.00  
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# CHART PAGE

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

