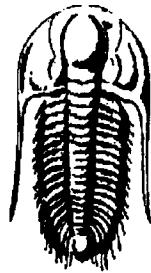


15-033-21290

3-35s-16w



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

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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

**3-35s-16w**

**Murdock#2**

Start Date: 2001.01.29 @ 11:18:04

End Date: 2001.01.29 @ 19:53:04

Job Ticket #: 15309      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.

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

ATTN: Alan Downing

**Murdock#2**

**3-35s-16w**

Job Ticket: 15309

**DST#: 1**

Test Start: 2001.01.29 @ 11:18:04

### GENERAL INFORMATION:

Formation: **Mississippian**

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

Time Tool Opened: 13:26:19

Time Test Ended: 19:53:04

Test Type: Conventional Bottom Hole

Tester: Darren L. Amerine

Unit No: 19

Interval: **5140.00 ft (KB) To 5218.00 ft (KB) (TVD)**

Total Depth: 5218.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1847.00 ft (KB)

1834.00 ft (CF)

KB to GR/CF: 13.00 ft

**Serial #: 3302**

**Inside**

Press@RunDepth: 60.29 psig @ 5152.00 ft (KB)

Start Date: 2001.01.29

End Date: 2001.01.29

Capacity: 7000.00 psig

Last Calib.: 2001.12.29

Start Time: 11:18:06

End Time: 19:53:04

Time On Btm: 2001.01.29 @ 13:25:04

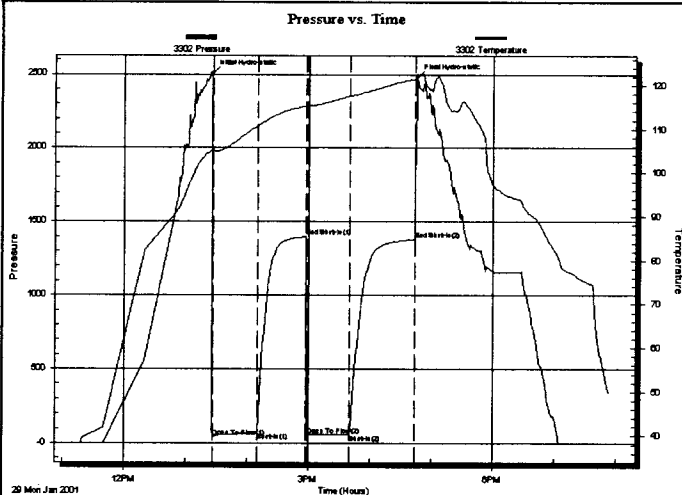
Time Off Btm: 2001.01.29 @ 16:44:49

**TEST COMMENT:** F: Strong blow b.o.b in 60 sec. GTS in 20 mins. Gauge gas.

IS: Bled down n for 20 mins. Slight surface blow back.

FF: Strong blow b.o.b in 10 sec. Gauge gas.

FS: Bled down n for 15 mins. no blow back.



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2504.15         | 105.13       | Initial Hydro-static |
| 2           | 40.84           | 105.09       | Open To Flow (1)     |
| 45          | 68.90           | 110.78       | Shut-In(1)           |
| 92          | 1397.14         | 115.27       | End Shut-In(1)       |
| 94          | 52.09           | 115.40       | Open To Flow (2)     |
| 135         | 60.29           | 117.58       | Shut-In(2)           |
| 198         | 1378.36         | 121.47       | End Shut-In(2)       |
| 200         | 2478.86         | 122.69       | Final Hydro-static   |

### Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 5058.00     | 01 - Gas             | 67.74        |
| 60.00       | VSGCM 4% gas 96% mud | 0.84         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25           | 3.00            | 27.60            |
| Last Gas Rate  | 0.25           | 20.00           | 54.57            |
| Max. Gas Rate  | 0.25           | 20.00           | 54.57            |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

**Murdock#2**

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

**3-35s-16w**

Job Ticket: 15309

**DST#: 1**

ATTN: Alan Downing

Test Start: 2001.01.29 @ 11:18:04

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4767.00 ft | Diameter: 3.80 inches | Volume: 66.87 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: 351.96 ft  | Diameter: 2.25 inches | Volume: 1.73 bbl  | Weight to Pull Loose: 115000.0 lb  |
|                           |                    | Total Volume:         | 68.60 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 6.96 ft            |                       |                   | String Weight: Initial 80000.00 lb |
| Depth to Top Packer:      | 5140.00 ft         |                       |                   | Final 80000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 78.00 ft           |                       |                   |                                    |
| Tool Length:              | 106.00 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        |            |          | 5113.00    |                               |
| S.I. Tool        | 5.00        |            |          | 5118.00    |                               |
| HMV              | 5.00        |            |          | 5123.00    |                               |
| Jars             | 5.00        |            |          | 5128.00    |                               |
| Safety Joint     | 2.00        |            |          | 5130.00    |                               |
| Packer           | 5.00        |            |          | 5135.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 5140.00    |                               |
| Stubb            | 1.00        |            |          | 5141.00    |                               |
| Anchor           | 11.00       |            |          | 5152.00    |                               |
| Recorder         | 0.00        | 3302       | Inside   | 5152.00    |                               |
| Blank Spacing    | 63.00       |            |          | 5215.00    |                               |
| Recorder         | 0.00        | 10991      | Outside  | 5215.00    |                               |
| Bullnose         | 3.00        |            |          | 5218.00    | 78.00 Bottom Packers & Anchor |

**Total Tool Length: 106.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

American Warrior, Inc.

**Murdock#2**

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

**3-35s-16w**

Job Ticket: 15309

**DST#: 1**

ATTN: Alan Downing

Test Start: 2001.01.29 @ 11:18:04

### 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: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 0.32 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbl |
|--------------|----------------------|---------------|
| 5058.00      | 01 - Gas             | 67.744        |
| 60.00        | VSGCM 4% gas 96% mud | 0.842         |

Total Length: 5058.00 ft

Total Volume: 68.586 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

American Warrior, Inc.

**Murdock#2**

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

**3-35s-16w**

Job Ticket: 15309

**DST#: 1**

ATTN: Alan Downing

Test Start: 2001.01.29 @ 11:18:04

### 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           | 25           | 0.25       | 3.00            | 27.60                        |
| 1           | 25           | 0.25       | 3.00            | 27.60                        |
| 1           | 30           | 0.25       | 5.00            | 30.78                        |
| 1           | 35           | 0.25       | 7.00            | 33.95                        |
| 1           | 40           | 0.25       | 9.00            | 37.12                        |
| 1           | 45           | 0.25       | 10.00           | 38.71                        |
| 2           | 10           | 0.25       | 13.00           | 43.47                        |
| 2           | 20           | 0.25       | 17.00           | 49.81                        |
| 2           | 30           | 0.25       | 20.00           | 54.57                        |
| 2           | 40           | 0.25       | 20.00           | 54.57                        |

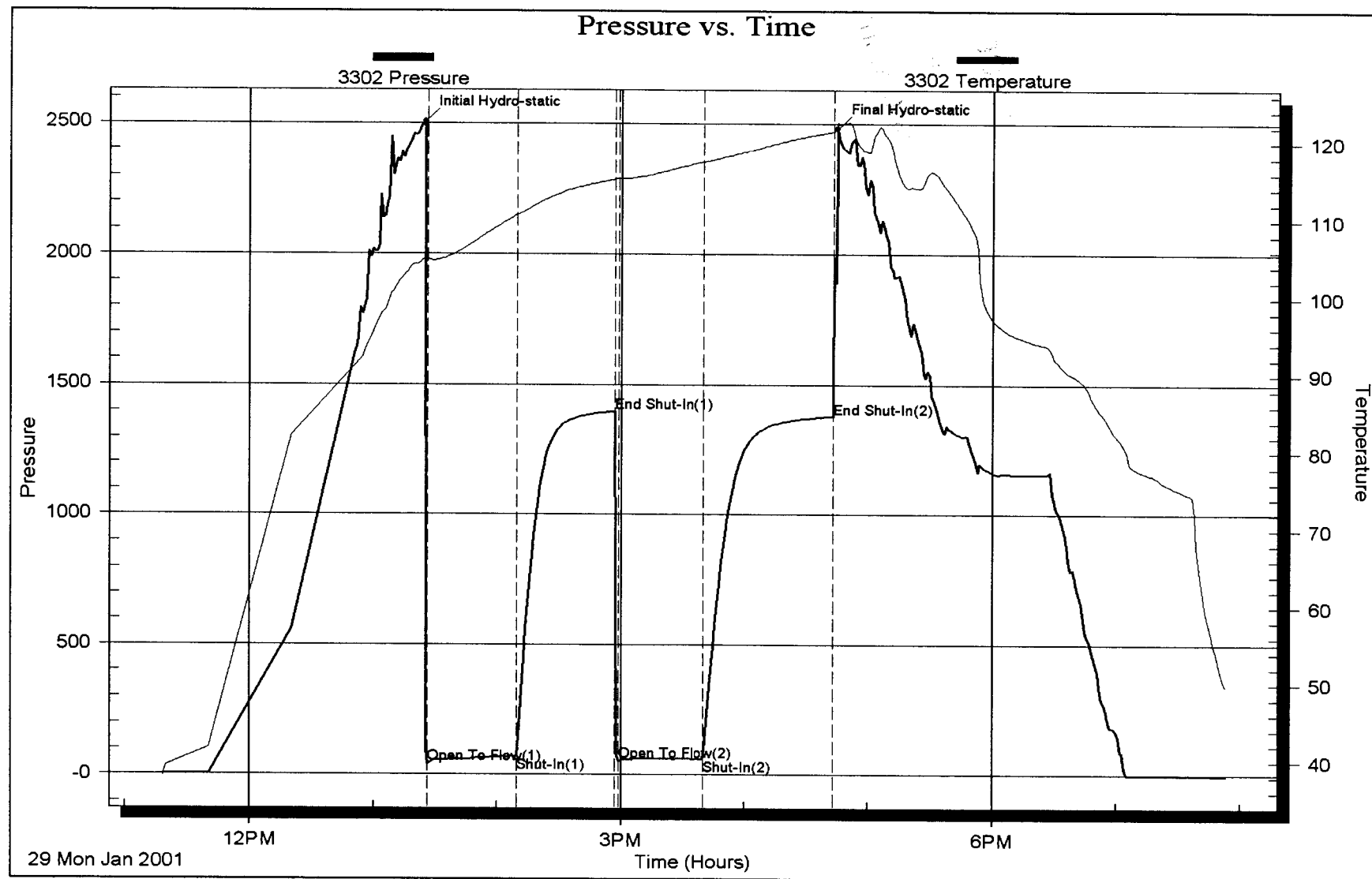
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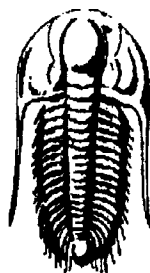
Serial #: 3302

Inside American Warrior, Inc.

3--35s--16w

DST Test Number: 1





**TRILOBITE  
TESTING, INC.**

RECEIVED  
MAY 02 2002  
KCC WICHITA

## DRILL STEM TEST REPORT

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

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

ATTN: Alan Downing

**3-35s-16w**

**Murdock#2**

Start Date: 2001.02.01 @ 00:49:21

End Date: 2001.02.01 @ 09:48:21

Job Ticket #: 15310      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

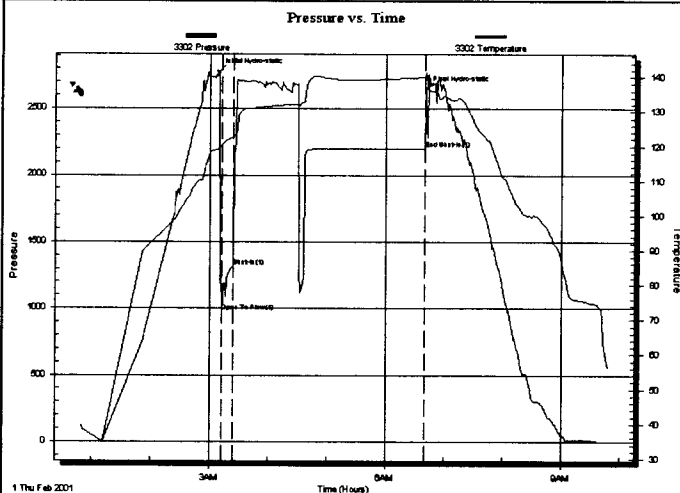
**Murdock#2**  
**3-35s-16w**  
Job Ticket: 15310 **DST#: 2**  
Test Start: 2001.02.01 @ 00:49:21

### GENERAL INFORMATION:

Formation: **Viola**  
Deviated: **No** Whipstock: **ft (KB)**  
Time Tool Opened: 03:12:51  
Time Test Ended: 09:48:21  
Interval: **5759.00 ft (KB) To 5804.00 ft (KB) (TVD)**  
Total Depth: **5804.00 ft (KB) (TVD)**  
Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
Test Type: **Conventional Bottom Hole**  
Tester: **Darren L. Amerine**  
Unit No: **19**  
Reference Elevations: **1847.00 ft (KB)**  
**1834.00 ft (CF)**  
KB to GR/CF: **13.00 ft**

**Serial #: 3302** Inside  
Press@RunDepth: **1310.69 psig @ 5770.00 ft (KB)**  
Start Date: **2001.02.01** End Date: **2001.02.01** Capacity: **7000.00 psig**  
Start Time: **00:49:23** End Time: **09:48:21** Last Calib.: **2002.01.01**  
Time On Btm: **2001.02.01 @ 03:08:51**  
Time Off Btm: **2001.02.01 @ 06:41:21**

**TEST COMMENT:** IF: Strong blow b.o.b in 20 sec. GTS in 2 mins. cracked fitting on surface hose pull tool up and close hydraulic tool.  
2nd IF: Open tool for 5 mins. gauge gas, close tool.  
IS: Bled down for 70 mins. built



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2775.66         | 119.31       | Initial Hydro-static |
| 4           | 972.05          | 120.37       | Open To Flow (1)     |
| 15          | 1310.69         | 122.59       | Shut-In (1)          |
| 211         | 2201.32         | 140.05       | End Shut-In (1)      |
| 213         | 2647.32         | 141.49       | Final Hydro-static   |

### Recovery

| Length (ft) | Description                  | Volume (bbl) |
|-------------|------------------------------|--------------|
| 5151.00     | 01 - Gas                     | 69.05        |
| 600.00      | 101 - Gas/Condensate cut Mud | 8.42         |
|             |                              |              |
|             |                              |              |
|             |                              |              |

### Gas Rates

|                | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.75           | 245.00          | 4051.79          |



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

**Murdock#2**

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

**3-35s-16w**

Job Ticket: 15310

**DST#: 2**

ATTN: Alan Downing

Test Start: 2001.02.01 @ 00:49:21

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 5400.00 ft | Diameter: 3.80 inches | Volume: 75.75 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: 351.96 ft  | Diameter: 2.25 inches | Volume: 1.73 bbl  | Weight to Pull Loose: 115000.0 lb  |
|                           |                    | Total Volume:         | 77.48 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 20.96 ft           |                       |                   | String Weight: Initial 86000.00 lb |
| Depth to Top Packer:      | 5759.00 ft         |                       |                   | Final 86000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 45.00 ft           |                       |                   |                                    |
| Tool Length:              | 73.00 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        |            |          | 5732.00    |                               |
| S.I. Tool        | 5.00        |            |          | 5737.00    |                               |
| HMV              | 5.00        |            |          | 5742.00    |                               |
| Jars             | 5.00        |            |          | 5747.00    |                               |
| Safety Joint     | 2.00        |            |          | 5749.00    |                               |
| Packer           | 5.00        |            |          | 5754.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 5759.00    |                               |
| Stubb            | 1.00        |            |          | 5760.00    |                               |
| Anchor           | 10.00       |            |          | 5770.00    |                               |
| Recorder         | 0.00        | 3302       | Inside   | 5770.00    |                               |
| Blank Spacing    | 31.00       |            |          | 5801.00    |                               |
| Recorder         | 0.00        | 10991      | Outside  | 5801.00    |                               |
| Bullnose         | 3.00        |            |          | 5804.00    | 45.00 Bottom Packers & Anchor |

**Total Tool Length: 73.00**



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

American Warrior, Inc.

**Murdock#2**

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

**3-35s-16w**

Job Ticket: 15310

**DST#: 2**

ATTN: Alan Downing

Test Start: 2001.02.01 @ 00:49:21

### 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: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 1.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.32 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description                  | Volume<br>bbl |
|--------------|------------------------------|---------------|
| 5151.00      | 01 - Gas                     | 69.049        |
| 600.00       | 101 - Gas/Condensate cut Mud | 8.416         |

Total Length: 5751.00 ft

Total Volume: 77.465 bbl

Num Fluid Samples: 1

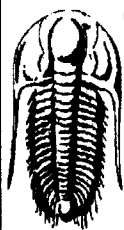
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



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

## DRILL STEM TEST REPORT

**GAS RATES**

American Warrior, Inc.

**Murdock#2**

P.O. Box 399

**3-35s-16w**

Garden City, KS 67846--0399

Job Ticket: 15310

**DST#: 2**

ATTN: Alan Downing

Test Start: 2001.02.01 @ 00:49:21

### Gas Rates Information

Temperature: 59 deg C

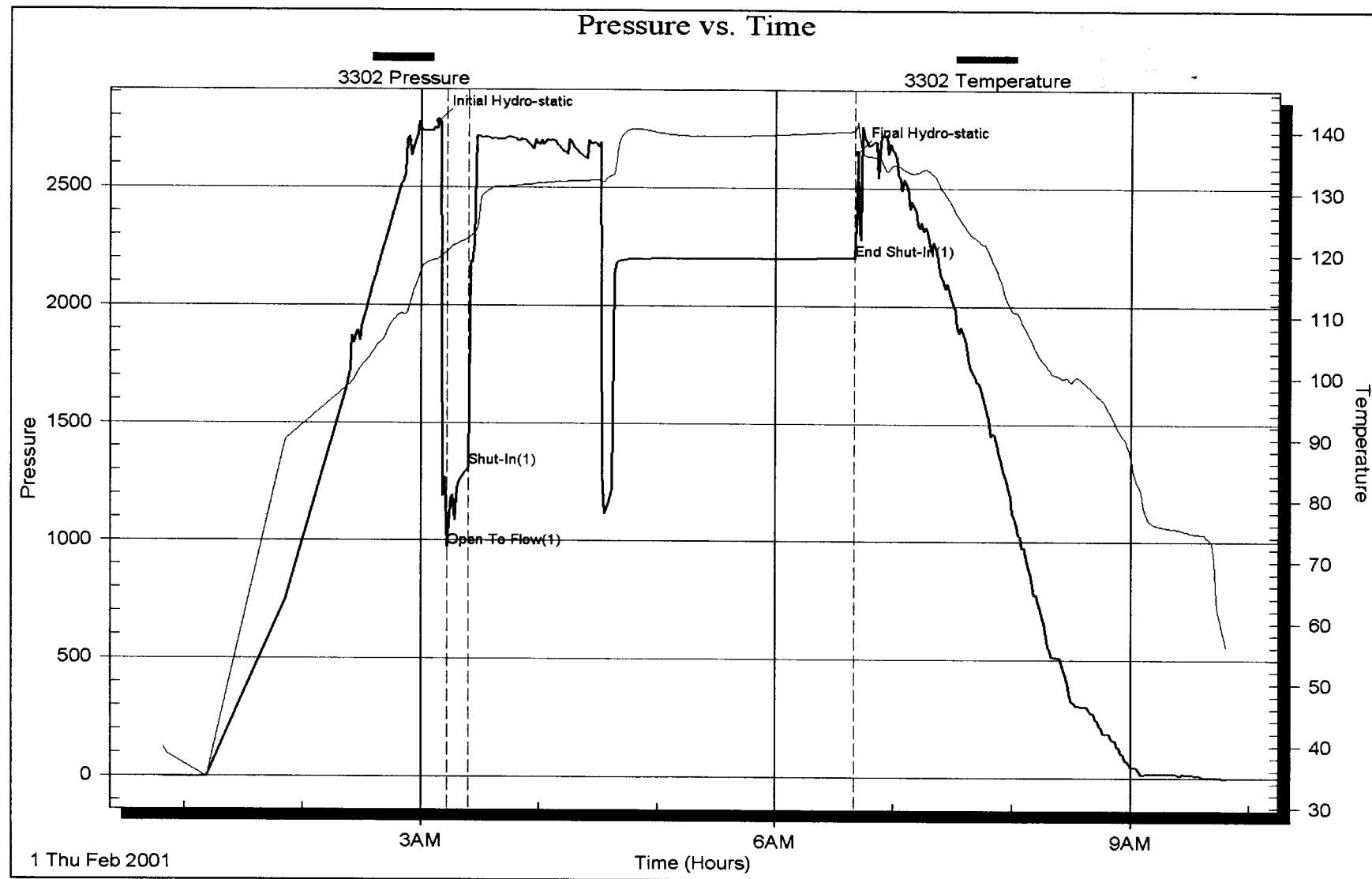
Relative Density: 0.65

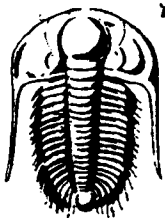
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke<br>(mm) | Pressure<br>(kPaa) | Gas Rate<br>(m <sup>3</sup> /d) |
|-------------|--------------|---------------|--------------------|---------------------------------|
| 1           | 5            | 0.75          | 245.00             | 4051.79                         |

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# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15309

## Test Ticket

|                 |                                                |                           |                |                 |                                                |
|-----------------|------------------------------------------------|---------------------------|----------------|-----------------|------------------------------------------------|
| Well Name & No. | <u>Murdock #2</u>                              | Test No.                  | <u>#1</u>      | Date            | <u>12/29/01</u>                                |
| Company         | <u>American Warrior, Inc.</u>                  | Zone Tested               | <u>M.S.S.</u>  |                 |                                                |
| Address         | <u>P.O. box 399 Garden City, KS 67846-0399</u> | Elevation                 | <u>1847</u>    | KB              | <u>1834</u> GL                                 |
| Co. Rep / Geo.  | <u>Alan Downing</u>                            | Cont.                     | <u>Duke #7</u> | Est. Ft. of Pay | <u>Por.</u> %                                  |
| Location: Sec.  | <u>3</u>                                       | Twp.                      | <u>35S</u>     | Rge.            | <u>16W</u> Co. <u>Corniche</u> State <u>TX</u> |
| No. of Copies   | <u>5</u>                                       | Distribution Sheet (Y, N) | <u>—</u>       | Turnkey (Y, N)  | <u>—</u> Evaluation (Y, N) <u>—</u>            |

|                       |                                                                                                                                                                                                                                               |                      |                  |                       |                                    |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------|-----------------------|------------------------------------|
| Interval Tested       | <u>5140 - 5218</u>                                                                                                                                                                                                                            | Initial Str Wt./Lbs. | <u>8000</u>      | Unseated Str Wt./Lbs. | <u>8000</u>                        |
| Anchor Length         | <u>78</u>                                                                                                                                                                                                                                     | Wt. Set Lbs.         | <u>20000</u>     | Wt. Pulled Loose/Lbs. | <u>115000</u>                      |
| Top Packer Depth      | <u>5135</u>                                                                                                                                                                                                                                   | Tool Weight          | <u>2100</u>      |                       |                                    |
| Bottom Packer Depth   | <u>5140</u>                                                                                                                                                                                                                                   | Hole Size — 7 7/8"   | <u>✓</u>         | Rubber Size — 6 3/4"  | <u>✓</u>                           |
| Total Depth           | <u>5218</u>                                                                                                                                                                                                                                   | Wt. Pipe Run         | <u>N/A</u>       | Drill Collar Run      | <u>351.96</u>                      |
| Mud Wt.               | <u>9.0</u> LCM <u>2#</u> Vis. <u>50</u> WL <u>9.6</u>                                                                                                                                                                                         | Drill Pipe Size      | <u>4 1/2 x H</u> | Ft. Run               | <u>4830</u>                        |
| Blow Description      | <u>TF: Strong blow b.o.b in 60 sec. GTS in 20 mins Gauge Gas.</u><br><u>ISI Blended down for 20 mins slight surface blow back.</u><br><u>FF: Strong blow b.o.b in 10 sec. Gauge Gas.</u><br><u>FST Blended down for 15 mins No blow back.</u> |                      |                  |                       |                                    |
| Recovery — Total Feet | <u>60</u>                                                                                                                                                                                                                                     | GIP                  | <u>60</u>        | Ft. in DP             | <u>0</u>                           |
| Rec.                  | <u>60</u>                                                                                                                                                                                                                                     | Feet Of              | <u>US 6CM</u>    | 4 %gas                | %oil %water <u>96</u> %mud         |
| Rec.                  | <u>5058</u>                                                                                                                                                                                                                                   | Feet Of              | <u>6TP</u>       | %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                   | <u>121</u>                                                                                                                                                                                                                                    | °F Gravity           |                  | °API D@               |                                    |
| RW                    |                                                                                                                                                                                                                                               | @                    |                  | °F Chlorides          |                                    |
|                       |                                                                                                                                                                                                                                               |                      |                  | ppm Recovery          | Chlorides <u>10,000</u> ppm System |

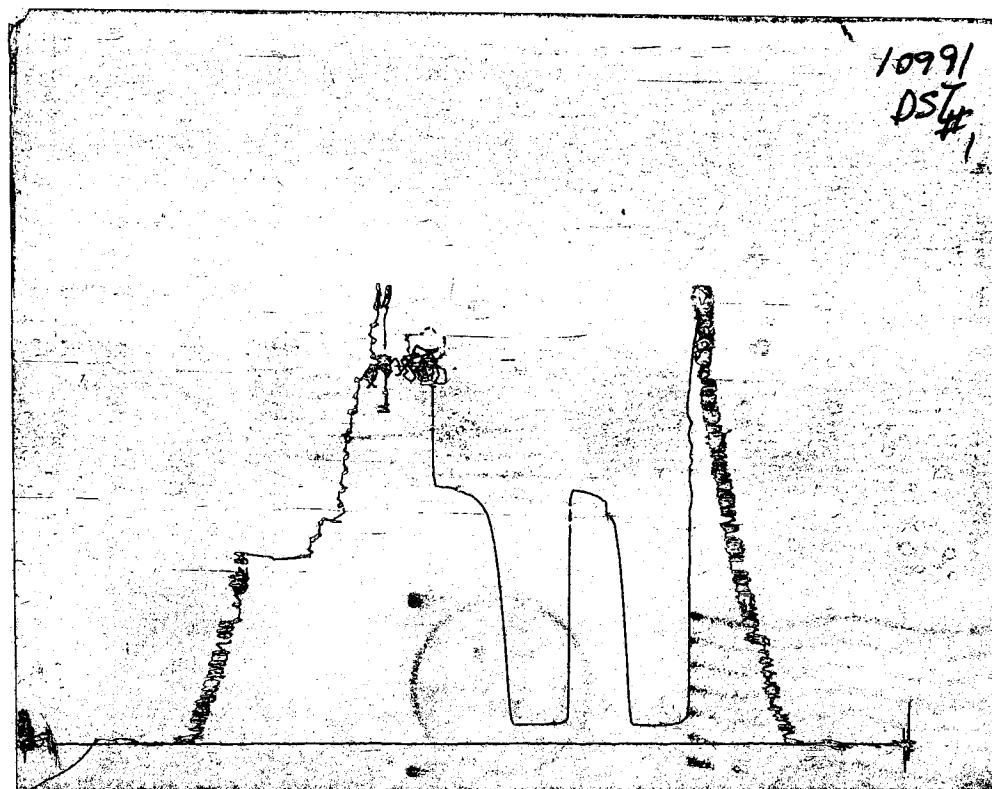
|                                  |             |     |                 |              |                |              |
|----------------------------------|-------------|-----|-----------------|--------------|----------------|--------------|
| (A) Initial Hydrostatic Mud      | <u>2501</u> | PSI | Recorder No.    | <u>3302</u>  | T-On Location  | <u>0930</u>  |
| (B) First Initial Flow Pressure  | <u>41</u>   | PSI | (depth)         | <u>5152</u>  | T-Started      | <u>1118</u>  |
| (C) First Final Flow Pressure    | <u>69</u>   | PSI | Recorder No.    | <u>10991</u> | T-Open         | <u>1300</u>  |
| (D) Initial Shut-In Pressure     | <u>1397</u> | PSI | (depth)         | <u>5215</u>  | T-Pulled       | <u>1615</u>  |
| (E) Second Initial Flow Pressure | <u>52</u>   | PSI | Recorder No.    |              | T-Out          | <u>1953</u>  |
| (F) Second Final Flow Pressure   | <u>60</u>   | PSI | (depth)         |              | T-Off Location | <u>2100</u>  |
| (G) Final Shut-in Pressure       | <u>1380</u> | PSI | Initial Opening | <u>45</u>    | Test           | <u>✓ 900</u> |
| (Q) Final Hydrostatic Mud        | <u>2479</u> | PSI | Initial Shut-in | <u>45</u>    | Jars           | <u>✓ 200</u> |
|                                  |             |     | Final Flow      | <u>45</u>    | Safety Joint   | <u>✓ 50</u>  |
|                                  |             |     | Final Shut-in   | <u>60</u>    | Straddle       |              |
|                                  |             |     |                 |              | Circ. Sub      |              |
|                                  |             |     |                 |              | Sampler        |              |
|                                  |             |     |                 |              | Extra Packer   |              |
|                                  |             |     |                 |              | Elec. Rec.     | <u>✓ 150</u> |
|                                  |             |     |                 |              | Mileage        | <u>90</u>    |
|                                  |             |     |                 |              | Other          |              |
|                                  |             |     |                 |              | TOTAL PRICE \$ | <u>1390</u>  |

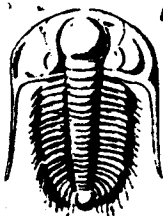
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Approved By Alan Downing  
Our Representative Darren Humeune

## CHART PAGE

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





# TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 15310

## Test Ticket

|                   |                                                 |                           |                |                 |                 |
|-------------------|-------------------------------------------------|---------------------------|----------------|-----------------|-----------------|
| Well Name & No.   | <u>Murdock #2</u>                               | Test No.                  | <u>#2</u>      | Date            | <u>12/31/01</u> |
| Company           | <u>American Warrior, Inc</u>                    | Zone Tested               | <u>Viola</u>   |                 |                 |
| Address           | <u>P.O. box 399, Garden City, KS 67846-0399</u> |                           |                |                 |                 |
| Elevation         | <u>1847</u>                                     | KB                        | <u>1834</u>    | GL              |                 |
| Co. Rep / Geo.    | <u>Alan Downing</u>                             | Cont.                     | <u>Duke #7</u> | Est. Ft. of Pay | <u>Por.</u> %   |
| Location: Sec.    | <u>3</u>                                        | Twp.                      | <u>35S</u>     | Rge.            | <u>16 W</u>     |
| Co.               | <u>Comanche</u>                                 | State                     | <u>KS</u>      |                 |                 |
| No. of Copies     | <u>5</u>                                        | Distribution Sheet (Y, N) | <u>—</u>       | Turnkey (Y, N)  | <u>—</u>        |
| Evaluation (Y, N) | <u>—</u>                                        |                           |                |                 |                 |

|                     |                      |                      |                  |                       |                |
|---------------------|----------------------|----------------------|------------------|-----------------------|----------------|
| Interval Tested     | <u>5759' - 5804'</u> | Initial Str Wt./Lbs. | <u>86,000</u>    | Unseated Str Wt./Lbs. | <u>86,000</u>  |
| Anchor Length       | <u>45'</u>           | Wt. Set Lbs.         | <u>20,000</u>    | Wt. Pulled Loose/Lbs. | <u>115,000</u> |
| Top Packer Depth    | <u>5754'</u>         | Tool Weight          | <u>2100</u>      |                       |                |
| Bottom Packer Depth | <u>5759'</u>         | Hole Size — 7 7/8"   | <u>✓</u>         | Rubber Size — 6 3/4"  | <u>✓</u>       |
| Total Depth         | <u>5804</u>          | Wt. Pipe-Run         | <u>N/A</u>       | Drill Collar Run      | <u>351.96</u>  |
| Mud Wt.             | <u>9.1</u>           | LCM                  | <u>4 1/2</u>     | Vis.                  | <u>54</u>      |
| WL                  | <u>7.0</u>           | Drill Pipe Size      | <u>4 1/2 x 4</u> | Ft. Run               | <u>35431</u>   |

Blow Description IF: Strong blow b.o.b in 20 sec. GTS in 2 mins close looking checked.  
2nd IF: Open tool for 5 mins. Gauge bad close tool  
TSF: Bleed down for 70 mins built back to 1/4" in Diesel bucket.

|                       |             |            |                         |              |                 |                      |                |
|-----------------------|-------------|------------|-------------------------|--------------|-----------------|----------------------|----------------|
| Recovery — Total Feet | <u>600'</u> | GIP        | <u>5151'</u>            | Ft. in DC    | <u>351</u>      | Ft. in DP            | <u>2491</u>    |
| Rec.                  | <u>200'</u> | Feet Of    | <u>11750C Composite</u> | 15% gas      | <u>100%</u> oil | 25% water            | <u>60%</u> mud |
| Rec.                  | <u>400</u>  | Feet Of    | <u>SOC MC</u>           | 30% gas      | <u>100%</u> oil | 40% water            | <u>30%</u> mud |
| Rec.                  | <u>5151</u> | Feet Of    | <u>GIP</u>              | % gas        | % oil           | % water              | % mud          |
| Rec.                  |             | Feet Of    |                         | % gas        | % oil           | % water              | % mud          |
| Rec.                  |             | Feet Of    |                         | % gas        | % oil           | % water              | % mud          |
| BHT                   | <u>140°</u> | °F Gravity |                         | °API D@      |                 | °F Corrected Gravity |                |
| RW                    |             | @          |                         | °F Chlorides |                 | ppm Recovery         |                |
|                       |             |            |                         | Chlorides    | <u>7,000</u>    | ppm System           |                |

|                                  |             |     |                 |              |                |              |
|----------------------------------|-------------|-----|-----------------|--------------|----------------|--------------|
| (A) Initial Hydrostatic Mud      | <u>2776</u> | PSI | Recorder No.    | <u>3302</u>  | T-On Location  | <u>2315</u>  |
| (B) First Initial Flow Pressure  | <u>972</u>  | PSI | (depth)         | <u>5720</u>  | T-Started      | <u>0049</u>  |
| (C) First Final Flow Pressure    | <u>1311</u> | PSI | Recorder No.    | <u>10991</u> | T-Open         | <u>0405</u>  |
| (D) Initial Shut-In Pressure     | <u>2201</u> | PSI | (depth)         | <u>5801</u>  | T-Pulled       | <u>0610</u>  |
| (E) Second Initial Flow Pressure |             | PSI | Recorder No.    |              | T-Out          | <u>9:48</u>  |
| (F) Second Final Flow Pressure   |             | PSI | (depth)         |              | T-Off Location |              |
| (G) Final Shut-in Pressure       |             | PSI | Initial Opening | <u>5</u>     | Test           | <u>✓ 900</u> |
| (Q) Final Hydrostatic Mud        | <u>2647</u> | PSI | Initial Shut-in | <u>120</u>   | Jars           | <u>✓ 200</u> |

|               |  |                |              |
|---------------|--|----------------|--------------|
| Final Flow    |  | Safety Joint   | <u>✓ 50</u>  |
| Final Shut-in |  | Straddle       |              |
|               |  | Circ. Sub      |              |
|               |  | Sampler        |              |
|               |  | Extra Packer   |              |
|               |  | Elec. Rec.     | <u>✓ 150</u> |
|               |  | Mileage        | <u>90</u>    |
|               |  | Other          |              |
|               |  | TOTAL PRICE \$ | <u>1390</u>  |

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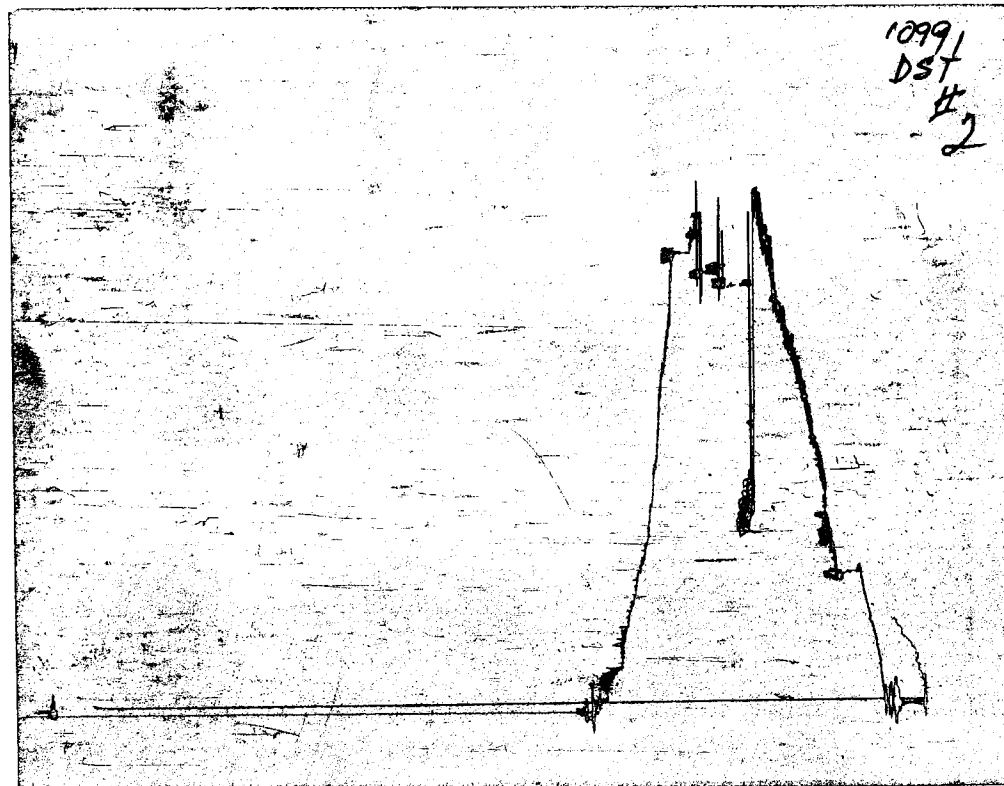
Approved By

Our Representative

Dan J. Gervine

## CHART PAGE

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



## 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: 20020057

Analyzed: 01/08/02

Sample From: Murdock #2 DST 1  
Producer: American Warrior

Pressure:  
Temperature:

Date: Location: 3-35-16

Time:  
Sampler:  
Source:

County: Comanche  
State: Kansas  
Formation: Miss

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.070  | 0.000 |
| Hydrogen       | H2: 0.005  | 0.000 |
| Oxygen         | O2: 0.000  | 0.000 |
| Nitrogen       | N2: 0.932  | 0.000 |
| Carbon Dioxide | CO2: 0.023 | 0.000 |
| Methane        | C1: 92.039 | 0.000 |
| Ethane         | C2: 3.490  | 0.933 |
| Propane        | C3: 1.233  | 0.340 |
| Iso Butane     | iC4: 0.198 | 0.065 |
| Normal Butane  | nC4: 0.410 | 0.129 |
| Iso Pentane    | iC5: 0.212 | 0.078 |
| Normal Pentane | nC5: 0.314 | 0.114 |
| Hexanes Plus   | C6+: 1.074 | 0.469 |

TOTAL: 100.000 2.127

Z Fact: 0.9974

SP.GR.: 0.6360

BTU (SAT): 1104.2 @ 14.73 psia

BTU (DRY): 1123.8 @ 14.73 psia

**OCTANE RATING: 125.5**

COMMENTS:

0.000

## 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: 20020058

Analyzed: 01/08/02

Sample From: Murdock #2 DST 2  
Producer: American Warrior

Pressure:  
Temperature:

Date: Location: 3-35-16

Time:  
Sampler:  
Source:

County: Comanche  
State: Kansas  
Formation: Viola

|                | Mole %     | GPM   |
|----------------|------------|-------|
| Helium         | He: 0.459  | 0.000 |
| Hydrogen       | H2: 0.000  | 0.000 |
| Oxygen         | O2: 0.031  | 0.000 |
| Nitrogen       | N2: 13.124 | 0.000 |
| Carbon Dioxide | CO2: 0.184 | 0.000 |
| Methane        | C1: 70.501 | 0.000 |
| Ethane         | C2: 6.966  | 1.863 |
| Propane        | C3: 3.578  | 0.986 |
| Iso Butane     | iC4: 0.417 | 0.136 |
| Normal Butane  | nC4: 1.439 | 0.454 |
| Iso Pentane    | iC5: 0.443 | 0.162 |
| Normal Pentane | nC5: 0.798 | 0.289 |
| Hexanes Plus   | C6+: 2.060 | 0.899 |

TOTAL: 100.000 4.789

Z Fact: 0.9968

SP.GR.: 0.7853

BTU (SAT): 1127.5 @ 14.73 psia

BTU (DRY): 1147.5 @ 14.73 psia

**OCTANE RATING: 105.2**

COMMENTS:

0.031