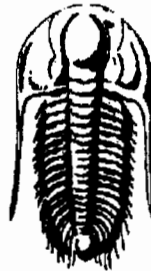


15-083-21602

23-215-25w

IND



**TRILOBITE  
TESTING, INC.**

**KCC  
OCT 08 2009  
CONFIDENTIAL**

## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City Ks 67846-0399

ATTN: Cecil O'Brate

<sup>W</sup>  
**23 21 25 Hodgeman KS**

### Cure #1-23

Start Date: 2009.07.23 @ 17:50:02

End Date: 2009.07.24 @ 01:31:56

Job Ticket #: 35402      DST #: 1

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KANSAS CORPORATION COMMISSION**

**OCT 13 2009**

**CONSERVATION DIVISION  
WICHITA, KS**

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

American Warrior Inc

Cure #1-23

23 21 25 Hodgeman KS

DST # 1

Miss

2009.07.23



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

## DRILL STEM TEST REPORT

American Warrior Inc

PO Box 399  
Garden City Ks 67846-0399

ATTN: Cecil O'Brate

**Cure #1-23**

**23 21 25 Hodgeman KS**

Job Ticket: 35402

**DST#: 1**

Test Start: 2009.07.23 @ 17:50:02

### GENERAL INFORMATION:

Formation: **Miss**

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

Time Tool Opened: 19:39:27

Time Test Ended: 01:31:56

Test Type: Conventional Bottom Hole

Tester: Ray Schwager

Unit No: 42

Interval: **4551.00 ft (KB) To 4563.00 ft (KB) (TVD)**

Total Depth: 4563.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2454.00 ft (KB)

2443.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8365**

**Inside**

Press@RunDepth: 252.03 psig @ 4552.01 ft (KB)

Start Date: 2009.07.23

End Date:

2009.07.24

Capacity:

7000.00 psig

Last Calib.:

2009.07.24

Start Time: 17:50:02

End Time:

01:31:56

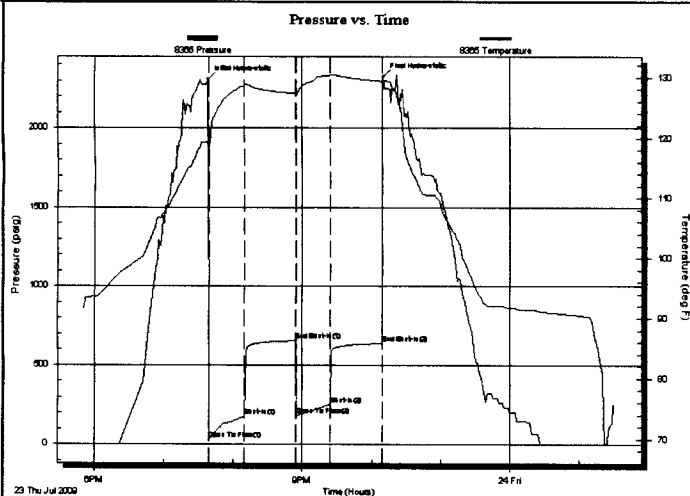
Time On Btm:

2009.07.23 @ 19:38:27

Time Off Btm:

2009.07.23 @ 22:09:57

TEST COMMENT: IFP-wk to strg in 11 min  
FFP-wk to strg in 18 min  
Times 30-45-30-45  
ISIP- 1/2"bl bk, FSIP-1/2"bl bk



### PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2307.75         | 119.35       | Initial Hydro-static |
| 1           | 29.43           | 118.53       | Open To Flow (1)     |
| 32          | 174.59          | 128.70       | Shut-In (1)          |
| 76          | 654.28          | 127.38       | End Shut-In (1)      |
| 77          | 180.13          | 127.19       | Open To Flow (2)     |
| 106         | 252.03          | 130.36       | Shut-In (2)          |
| 151         | 637.07          | 129.36       | End Shut-In (2)      |
| 152         | 2325.67         | 129.43       | Final Hydro-static   |

### Recovery

| Length (ft) | Description            | Volume (bbl) |
|-------------|------------------------|--------------|
| 186.00      | Water                  | 0.91         |
| 62.00       | O&GCMV 10%G5%O10%M75%W | 0.30         |
| 92.00       | MGO 15%G5%G5%M75%O     | 0.82         |
| 260.00      | CO                     | 3.65         |
| 0.00        | 450'GIP                | 0.00         |

### Gas Rates

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



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

## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

Cure #1-23

PO Box 399  
Garden City Ks 67846-0399

23 21 25 Hodgeman KS

Job Ticket: 35402

DST#: 1

ATTN: Cecil O'Brate

Test Start: 2009.07.23 @ 17:50:02

### Tool Information

|                           |                    |                       |                   |                                    |
|---------------------------|--------------------|-----------------------|-------------------|------------------------------------|
| Drill Pipe:               | Length: 4254.00 ft | Diameter: 3.80 inches | Volume: 59.67 bbl | Tool Weight: 2200.00 lb            |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl  | Weight set on Packer: 25000.00 lb  |
| Drill Collar:             | Length: 300.00 ft  | Diameter: 2.25 inches | Volume: 1.48 bbl  | Weight to Pull Loose: 75000.00 lb  |
|                           |                    | Total Volume:         | 61.15 bbl         | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 31.00 ft           |                       |                   | String Weight: Initial 61000.00 lb |
| Depth to Top Packer:      | 4551.00 ft         |                       |                   | Final 66000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                   |                                    |
| Interval between Packers: | 12.02 ft           |                       |                   |                                    |
| Tool Length:              | 40.02 ft           |                       |                   |                                    |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                   |                                    |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths                |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Change Over Sub  | 1.00        |            |          | 4524.00    |                               |
| Shut In Tool     | 5.00        |            |          | 4529.00    |                               |
| Hydraulic tool   | 5.00        |            |          | 4534.00    |                               |
| Jars             | 5.00        |            |          | 4539.00    |                               |
| Safety Joint     | 2.00        |            |          | 4541.00    |                               |
| Packer           | 5.00        |            |          | 4546.00    | 28.00 Bottom Of Top Packer    |
| Packer           | 5.00        |            |          | 4551.00    |                               |
| Stubb            | 1.00        |            |          | 4552.00    |                               |
| Recorder         | 0.01        | 8365       | Inside   | 4552.01    |                               |
| Recorder         | 0.01        | 6625       | Outside  | 4552.02    |                               |
| Perforations     | 8.00        |            |          | 4560.02    |                               |
| Bullnose         | 3.00        |            |          | 4563.02    | 12.02 Bottom Packers & Anchor |

**Total Tool Length: 40.02**

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WICHITA, KS



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

## DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

Cure #1-23

PO Box 399  
Garden City Ks 67846-0399

23 21 25 Hodgeman KS

Job Ticket: 35402      DST#: 1

ATTN: Cecil O'Brate

Test Start: 2009.07.23 @ 17:50:02

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API: 36 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity: 27000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.54 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

| Length<br>ft | Description            | Volume<br>bbl |
|--------------|------------------------|---------------|
| 186.00       | Water                  | 0.915         |
| 62.00        | O&GCMW 10%G5%O10%M75%W | 0.305         |
| 92.00        | MGO 15%G5%G5%M75%O     | 0.817         |
| 260.00       | CO                     | 3.647         |
| 0.00         | 450'GIP                | 0.000         |

Total Length: 600.00 ft      Total Volume: 5.684 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .23@76F

# Pressure vs. Time

