



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

American Warrior, Inc.  
 P.O. Box 399  
 Garden City, KS 67846  
 ATTN: Jason Alm

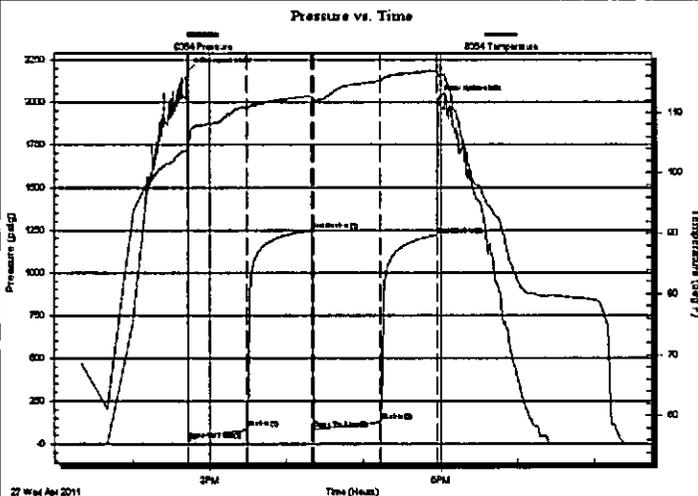
**Phyllis #3-32**  
**32/18S/21W-Ness**  
 Job Ticket: 42797      DST#: 1  
 Test Start: 2011.04.27 @ 13:09:50

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole  
 Time Tool Opened: 14:43:00      Tester: Dustin Rash  
 Time Test Ended: 20:23:20      Unit No: 38  
 Interval: 4207.00 ft (KB) To 4217.00 ft (KB) (TVD)      Reference Elevations: 2123.00 ft (KB)  
 Total Depth: 4217.00 ft (KB) (TVD)      2117.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Poor      KB to GR/CF: 6.00 ft

**Serial #: 8354      Inside**  
 Press@RunDepth: 129.16 psig @ 4209.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2011.04.27      End Date: 2011.04.27      Last Calib.: 2011.04.27  
 Start Time: 13:19:50      End Time: 20:23:20      Time On Btrm: 2011.04.27 @ 14:42:50  
 Time Off Btrm: 2011.04.27 @ 17:58:20

**TEST COMMENT:** IF-Weak building blow . B.O.B. in 28 minutes.  
 IS-Return @ 45 seconds. Built to 1 inch. Died @ 32 minutes.  
 FF-Weak building blow . B.O.B. in 26 minutes.  
 FS- Return @ 45 seconds. Built to 1/2 inch. D



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.76	104.56	Initial Hydro-static
1	22.96	103.32	Open To Flow (1)
47	89.97	110.65	Shut-In(1)
98	1246.35	112.73	End Shut-In(1)
99	86.15	112.34	Open To Flow (2)
151	129.16	115.27	Shut-In(2)
195	1218.69	116.85	End Shut-In(2)
196	2016.80	116.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	60% Mud/20% Oil/10% Gas/10% Water	0.30
62.00	60% Mud/20% Gas/20% Oil	0.33
186.00	60% Gas/40% Oil	2.61
0.00	186' G.I.P.	0.00

## Gas Rates

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



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**FLUID SUMMARY**

American Warrior, Inc.

**Phyllis #3-32**

P.O. Box 399  
Garden City, KS 67846

**32/18S/21W-Ness**

Job Ticket: 42797

**DST#: 1**

ATTN: Jason Alm

Test Start: 2011.04.27 @ 13:09:50

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 10.38 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 7500.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 39 deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	60%Mud/20%Oil/10%Gas/10%Water	0.305
62.00	60%Mud/20%Gas/20%Oil	0.332
186.00	60%Gas/40%Oil	2.609
0.00	186' G.I.P.	0.000

Total Length: 310.00 ft      Total Volume: 3.246 bbl

Num Fluid Samples: 0

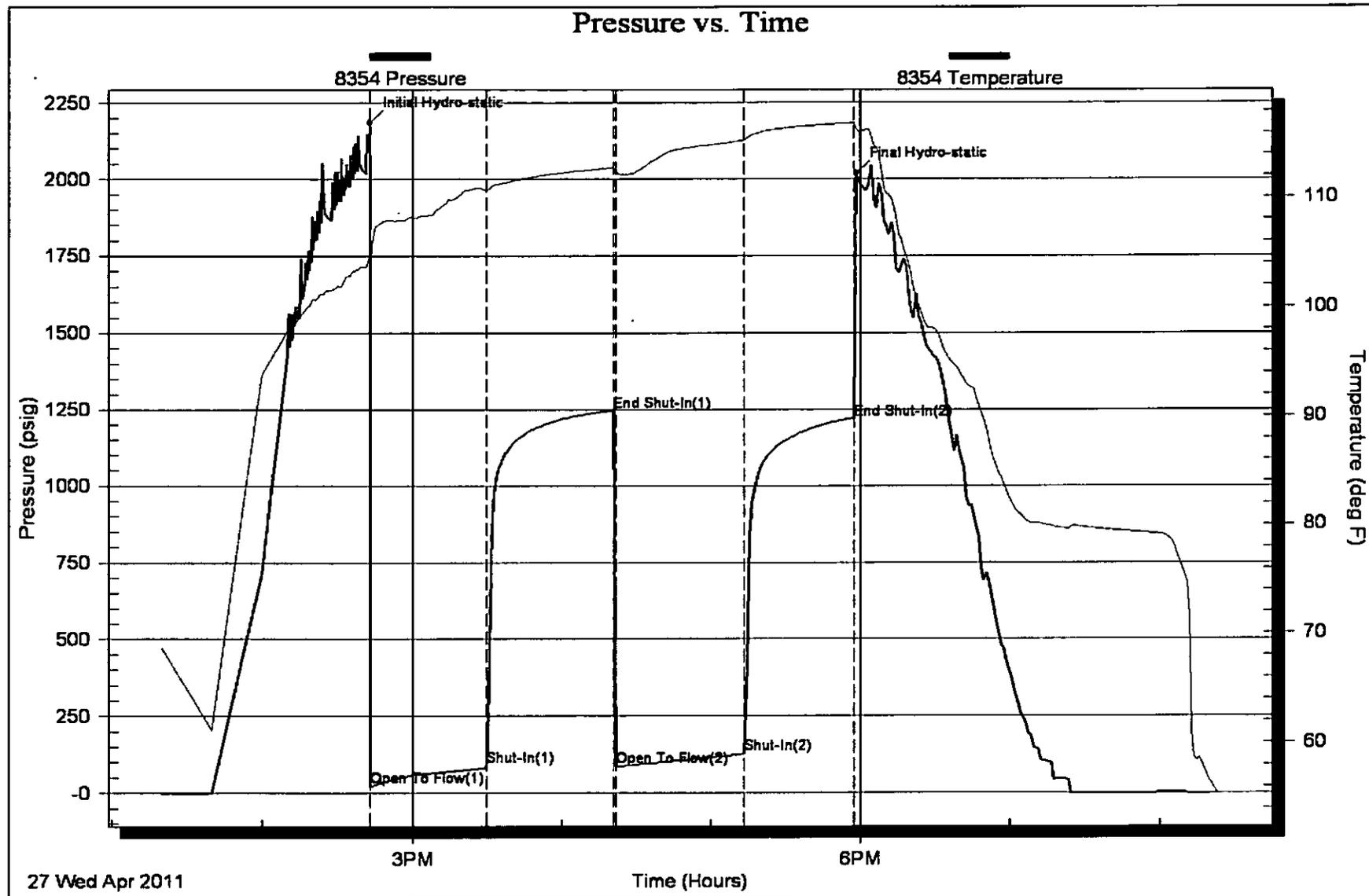
Num Gas Bombs: 0

Serial #:

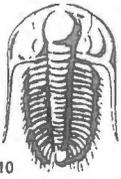
Laboratory Name:

Laboratory Location:

Recovery Comments:



27 Wed Apr 2011



# TRILOBITE TESTING INC. ✓

P.O. Box 1733 • Hays, Kansas 67601

## Test Ticket

NO. 04279715685

Well Name & No. Phyllis #3-32 Test No. 1 Date 4-27-11  
 Company American Natural, Inc. Elevation 2123 KB 2117 GL  
 Address P.O. Box 399 Garden City, KS 67846  
 Co. Rep / Geo. Jason Alm Rig Petromark 1  
 Location: Sec. 32 Twp. 18S Rge. 21W Co. Ness State KS

Interval Tested 4207-4217 Zone Tested MISSISSIPPIAN  
 Anchor Length 10' Drill Pipe Run 4076 Mud Wt. 9.35  
 Top Packer Depth 4207 Drill Collars Run 121 Vis 63  
 Bottom Packer Depth 4207 Wt. Pipe Run 0 WL 10.4  
 Total Depth 4217 Chlorides 7500 ppm System LCM 0

Blow Description IF - Weak Building blow, B.O.B. in 28 minutes, RT - Return @ 45 seconds, Built to 1 inch, Died @ 32 minutes, FF - Weak Building blow, B.O.B. in 26 minutes, FS - Return @ 45 seconds, Built to 1/2 inch, Died @ 31 minutes

Rec	Feet of	%gas	%oil	%water	%mud
186	G/O	60	40		
62	M/O/G	20	20	60	
62	M/O/G/W	10	20	10	60
	186' G.I.P.				

Rec Total 310 BHT 117 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2184  Test 1225' T-On Location 1230  
 (B) First Initial Flow 23  Jars 250 T-Started 1315  
 (C) First Final Flow 90  Safety Joint 76 T-Open 1445  
 (D) Initial Shut-In 1246  Circ Sub \_\_\_\_\_ T-Pulled 1750  
 (E) Second Initial Flow 86  Hourly Standby \_\_\_\_\_ T-Out 2010  
 (F) Second Final Flow 129  Mileage 50X2 125' Comments \_\_\_\_\_  
 (G) Final Shut-In 1219  Sampler \_\_\_\_\_ Bar-1309  
 (H) Final Hydrostatic 2017  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1675  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1675

Approved By \_\_\_\_\_ Our Representative D. Roth

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