



KANSAS CORPORATION COMMISSION 1136933  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_-\_\_\_\_\_-\_\_\_\_\_- Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1136933

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**JAMES C. MUSGROVE**

Petroleum Geologist  
212 Main Street  
P.O. Box 215  
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

American Warrior Inc.  
Volkland #1-32  
1416' FSL & 2544' FEL  
Section 32-18s-9w  
Rice County, Kansas  
Page 1

**Dry and Abandoned**

**Contractor:** Duke Drilling Co. (Rig #8)  
**Commenced:** December 11, 2012  
**Completed:** December 17, 2012  
**Elevation:** 1726' K.B; 1724' D.F; 1718' G.L.  
**Casing program:** Surface; 8 5/8" @ 332'  
Production; none.  
**Sample:** Samples saved and examined 2500' to the Rotary Total Depth.  
**Drilling time:** One (1) foot drilling time recorded and kept 2500 ft to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Formation Tests:** There was one (1) Drill Stem Test ran by Trilobite Testing Co.  
**Electric Log:** By Pioneer Energy Services; Dual Induction, Dual Compensated Porosity Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Heebner	2743	-1017
Toronto	2765	-1039
Douglas	2775	-1049
Brown Lime	2868	-1142
Lansing	2897	-1171
Base Kansas City	3162	-1436
Conglomerate	3182	-1456
Arbuckle	3246	-1520
Rotary Total Depth	3255	-1529
Log Total Depth	3230	-1504

(All tops and zones corrected to Electric Log measurements).

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**TOPEKA/TORONTO/DOUGLAS SECTION**

2700-2868' No shows of oil and/or gas were noted in the drilling of the Topeka/Toronto and Douglas sections.

**LANSING SECTION**

- 2897-2904' Limestone; white, cream, finely crystalline, poor visible porosity, chalky, no shows.
- 2915-2921' Limestone; white/cream, gray, finely crystalline, oolitic, scattered porosity, trace spotty dark brown stain, no free oil and no odor in fresh samples, few cherty.
- 2937-2942' Limestone; white/cream, finely crystalline, oolitic/fossiliferous, poor visible porosity, few scattered intercrystalline porosity, dark brown stain, no free oil and no odor in fresh samples.
- 2964-2976' Limestone; light gray, tan, finely crystalline, oolitic, poor porosity, chalky.
- 2986-3000' Limestone; gray, oolitic, sub oomoldic, poor visible porosity, slightly cherty, no shows.
- 3041-3049' Limestone; white/cream, gray, finely crystalline, oolitic, sub oomoldic, fair porosity, black (dead) spotty stain, no free oil and no odor.
- 3056-3070' Limestone; gray, buff, fossiliferous, poor visible porosity, n shows.
- 3072-3090' Limestone; white, cream, finely crystalline, chalky, no shows.
- 3095-3104' Limestone; cream, white, finely crystalline, oolitic, chalky in part, trace poor edge staining, no free oil and no odor.
- 3111-3135' Limestone; buff, gray, fossiliferous, oolitic, poor pinpoint porosity, poor stain, no free oil and no odor.

**CONGLOMERATE SECTION**

- 3182-3246' Varied colored chert in varied colored shales, trace gray, very fine grained, micaceous, sand, poorly developed, no shows.

**ARBUCKLE SECTION**

- 3246-3255' Dolomite; cream, tan, fine and medium crystalline, poor to fair intercrystalline porosity, light brown stain, show of free oil and faint odor in fresh samples.

**Drill Stem Test #1** **3174-3255'**

**Times:** 30-45-45-45

**Blow:** Strong

**Recovery:** 93' mud  
315' water cut mud, trace of oil  
(10% water, 90% mud)  
1452' muddy water

**Pressures:** ISIP 1032 psi  
FSIP 1025 psi  
IFP 104-559 psi  
FFP 557-869 psi  
HSH 1548-1514 psi

**Rotary Total Depth** 3255 (-1529)  
**Log Total Depth** 3230 (-1504)

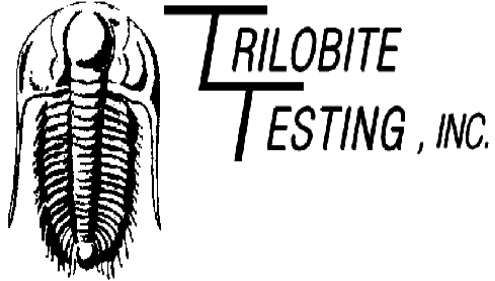
**Recommendations:**

The Volkland #1-32 was plugged and abandoned at the Rotary Total Depth 3255.

Respectfully submitted;



Kurt Talbott,  
Petroleum Geologist



## DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399  
Garden City, KS 67646

ATTN: Kurt Talbott

### **Vokland #1-32**

### **32 18 s 9w Rice,KS**

Start Date: 2012.12.16 @ 18:25:00

End Date: 2012.12.17 @ 02:00:00

Job Ticket #: 51541                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.12.18 @ 16:10:38



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc.  
PO Box 399  
Garden City, KS 67646  
ATTN: Kurt Talbott

**32 18 s 9w Rice, KS**  
**Vokland #1-32**  
Job Ticket: 51541 **DST#: 1**  
Test Start: 2012.12.16 @ 18:25:00

## GENERAL INFORMATION:

Formation: **Conglomerate Sand**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 20:16:40 Tester: Jim Svaty  
Time Test Ended: 02:00:00 Unit No: 41  
Interval: **3174.00 ft (KB) To 3255.00 ft (KB) (TVD)** Reference Elevations: 1726.00 ft (KB)  
Total Depth: 3255.00 ft (KB) (TVD) 1718.00 ft (CF)  
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

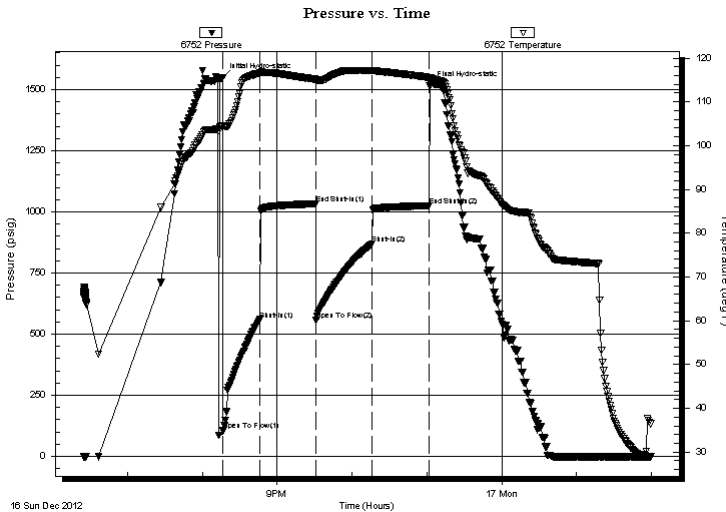
## Serial #: 6752

Inside

Press @ Run Depth: 869.97 psig @ 3188.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2012.12.16 End Date: 2012.12.17 Last Calib.: 2012.12.17  
Start Time: 18:25:01 End Time: 01:59:30 Time On Btm: 2012.12.16 @ 20:16:20  
Time Off Btm: 2012.12.16 @ 23:02:20

TEST COMMENT: 30-IFP- BOB in 1 min.  
45-ISIP- No Blow  
45-FFP- BOB in 2 min.  
45-FSIP- No Blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1548.27	104.61	Initial Hydro-static
1	104.94	104.39	Open To Flow (1)
30	559.58	116.58	Shut-In(1)
75	1032.05	115.12	End Shut-In(1)
75	557.20	115.02	Open To Flow (2)
120	869.97	117.10	Shut-In(2)
166	1025.00	115.50	End Shut-In(2)
166	1514.11	115.60	Final Hydro-static

## Recovery

## Gas Rates

Length (ft)	Description	Volume (bbl)
93.00	Mud 100%	1.30
315.00	WCM 10%w 90%m Show of Oil	4.42
315.00	MCW 40%m 60%w	4.42
1137.00	MCW 10%m 90%w	15.95

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

American Warrior Inc.

**32 18 s 9w Rice,KS**

PO Box 399  
Garden City, KS 67646

**Vokland #1-32**

Job Ticket: 51541

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2012.12.16 @ 18:25:00

## Tool Information

Drill Pipe:	Length: 3174.00 ft	Diameter: 3.80 inches	Volume: 44.52 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 44.52 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3174.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	81.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Hydraulic tool	5.00			3159.00	
Shut In Tool	5.00			3164.00	
Packer	5.00			3169.00	20.00 Bottom Of Top Packer
Packer	5.00			3174.00	
Stubb	1.00			3175.00	
Perforations	12.00			3187.00	
Change Over Sub	1.00			3188.00	
Recorder	0.00	6752	Inside	3188.00	
Recorder	0.00	8322	Outside	3188.00	
Blank Spacing	63.00			3251.00	
Change Over Sub	1.00			3252.00	
Bullnose	3.00			3255.00	81.00 Bottom Packers & Anchor

**Total Tool Length: 101.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc.

**32 18 s 9w Rice,KS**

PO Box 399  
Garden City, KS 67646

**Vokland #1-32**

Job Ticket: 51541

**DST#: 1**

ATTN: Kurt Talbott

Test Start: 2012.12.16 @ 18:25:00

## 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:

38000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5700.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
93.00	Mud 100%	1.305
315.00	WCM 10%w 90%m Show of Oil	4.419
315.00	MCW 40%m 60%w	4.419
1137.00	MCW 10%m 90%w	15.949

Total Length: 1860.00 ft

Total Volume: 26.092 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .350 @ 38

Serial #: 6752

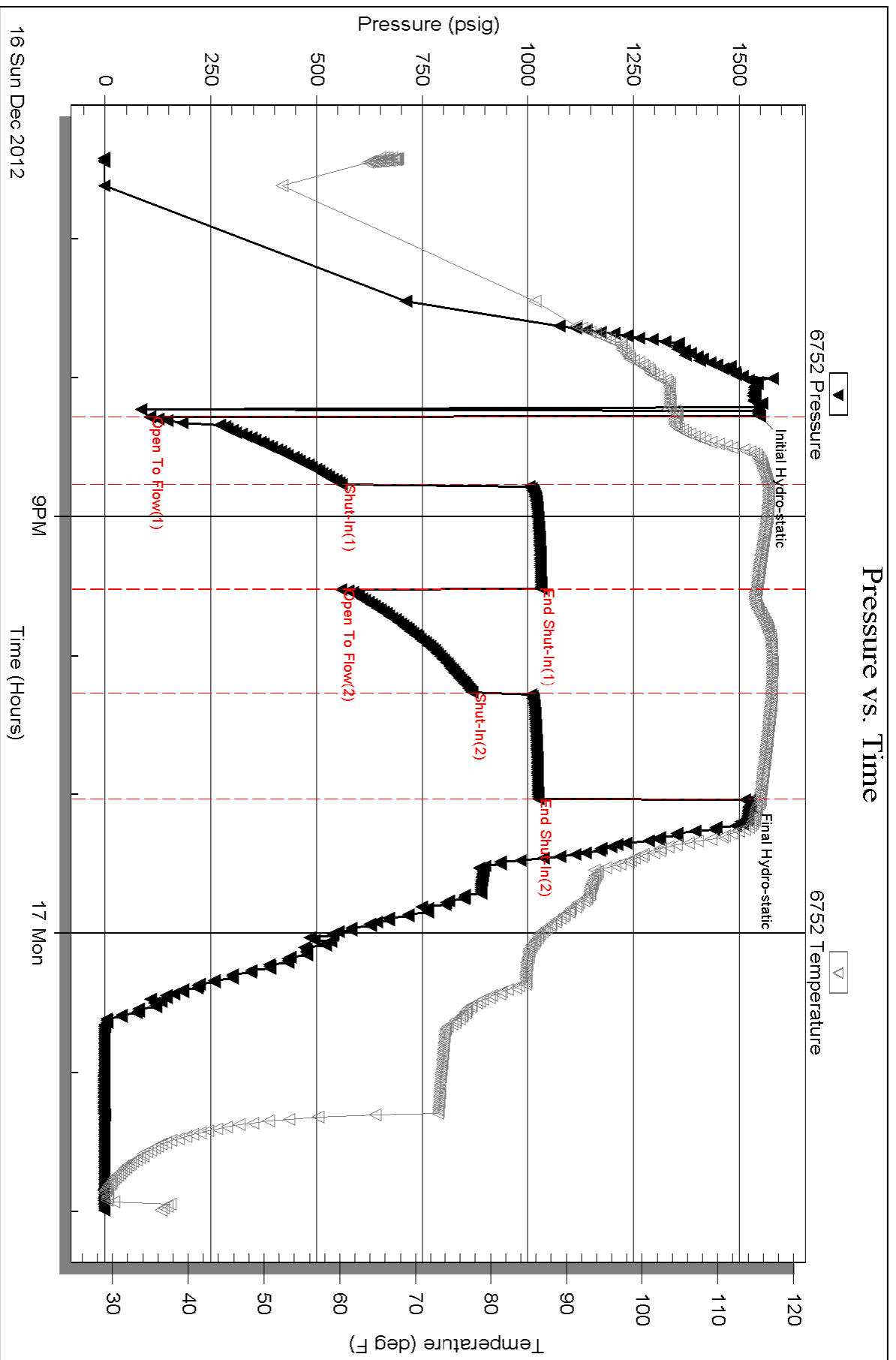
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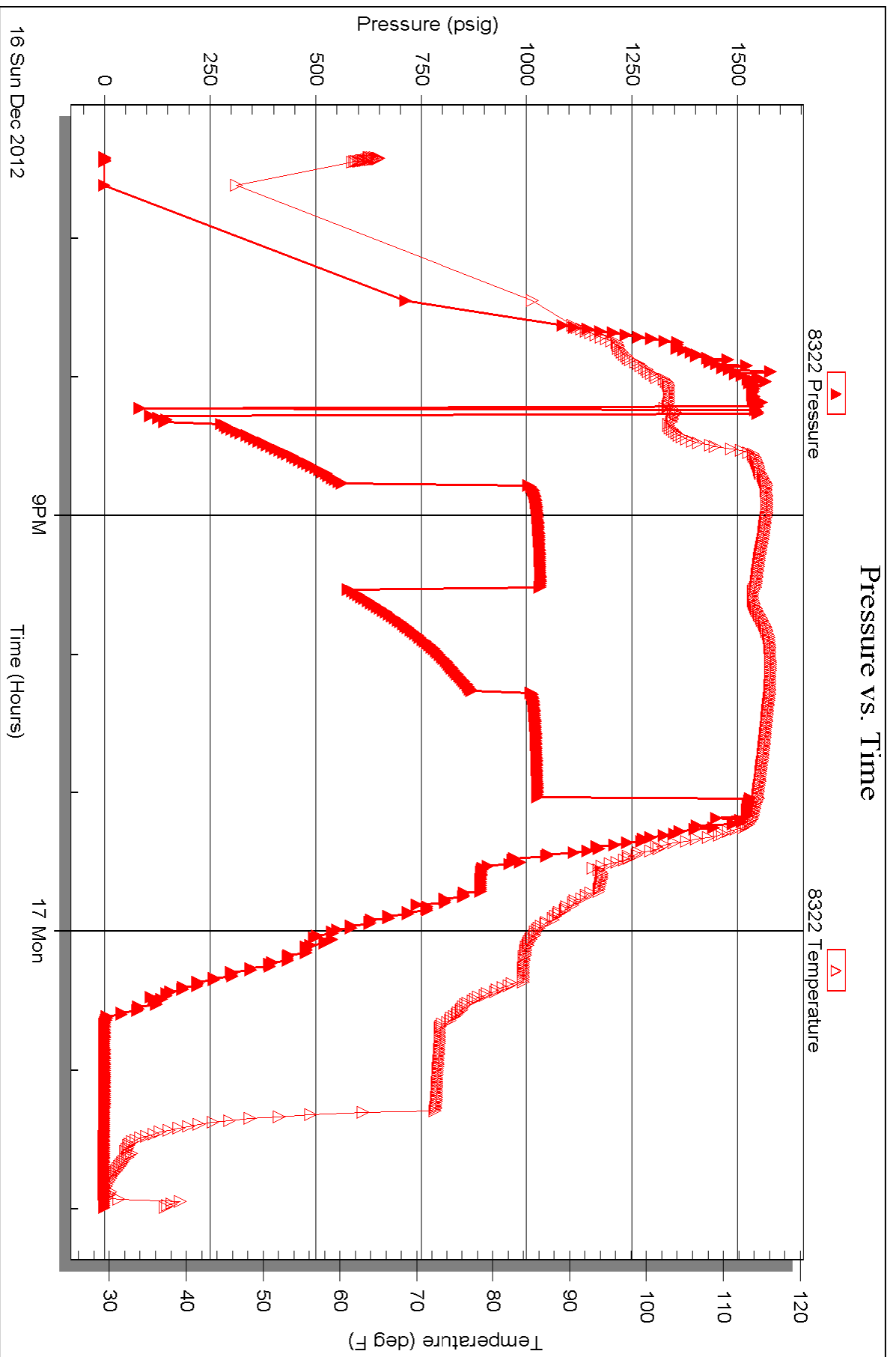
American Warrior Inc.

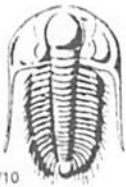
Vokland #1-32

DST Test Number: 1

### Pressure vs. Time







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51541

Well Name & No. Vokland - # 1-32 Test No. 1 Date 12-16-12  
 Company American Warrior Inc. Elevation 1726 KB 1718 GL  
 Address 3118 Cummings Rd Box 399 Garden City Ks. 67646  
 Co. Rep / Geo. Jim Musgrove Rig Ruke Rig # 8  
 Location: Sec. 32 Twp. 18 S Rge. 9 W Co. Rice State Ks.

Interval Tested 3174-3255 Zone Tested Conglomerate Sand.  
 Anchor Length 81 Drill Pipe Run 3174 Mud Wt. 9.15  
 Top Packer Depth 3169 Drill Collars Run 0 Vis 48  
 Bottom Packer Depth 3174 Wt. Pipe Run 0 WL 7.2  
 Total Depth 3255 Chlorides 5700 ppm System LCM 0  
 Blow Description IFP - BOB in Lamin. Packer Failed 1st Open Reset + Held.  
ISIP - No Blow  
FFP - BOB in Lamin  
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>93</u>	<u>mud</u>			<u>100</u>	
<u>315</u>	<u>wcm</u>	<u>Show of Oil</u>	<u>10</u>	<u>90</u>	
<u>315</u>	<u>mcw</u>		<u>60</u>	<u>40</u>	
<u>1137</u>	<u>mcw</u>		<u>90</u>	<u>10</u>	

Rec Total 1860 BHT 115 Gravity \_\_\_\_\_ API RW .350 @ 38° F Chlorides 32,000 ppm

(A) Initial Hydrostatic 1548  Test 1150 T-On Location 13:22  
 (B) First Initial Flow 104  Jars T-Started 18:25  
 (C) First Final Flow 559  Safety Joint T-Open 20:17  
 (D) Initial Shut-In 1032  Circ Sub T-Pulled 11:02  
 (E) Second Initial Flow 557  Hourly Standby T-Out 02:00  
 (F) Second Final Flow 869  Mileage 161 RT 249.55 Comments \_\_\_\_\_  
 (G) Final Shut-In 1025  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1514  Straddle \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 45  Extra Recorder \_\_\_\_\_  
 Final Flow 45  Day Standby \_\_\_\_\_  
 Final Shut-In 45  Accessibility \_\_\_\_\_  
 Sub Total 1399.55 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]  
 Trilobite Testing Inc. shall not be liable for damaged 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.

*Thank You!*