

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **American Warrior Inc**

PO Box 399  
Garden City KS 67846

ATTN: Cecil O Brate

**Kathy #2-24**

**24-19s-10w Rice,KS**

Start Date: 2011.12.18 @ 12:02:53

End Date: 2011.12.18 @ 18:54:23

Job Ticket #: 46241                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

**RECEIVED**

**MAR 15 2012**

**KCC WICHITA**

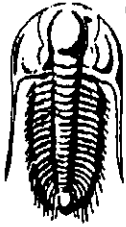
**CONFIDENTIAL**

**MAR 15 2014**

**KCC**

Printed: 2011.12.21 @ 11:00:41

American Warrior Inc 24-19s-10w Rice,KS Kathy #2-24 DST # 1 Arbuckle 2011.12.18



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

American Warrior Inc  
 PO Box 399  
 Garden City KS 67846  
 ATTN: Cecil O Brate

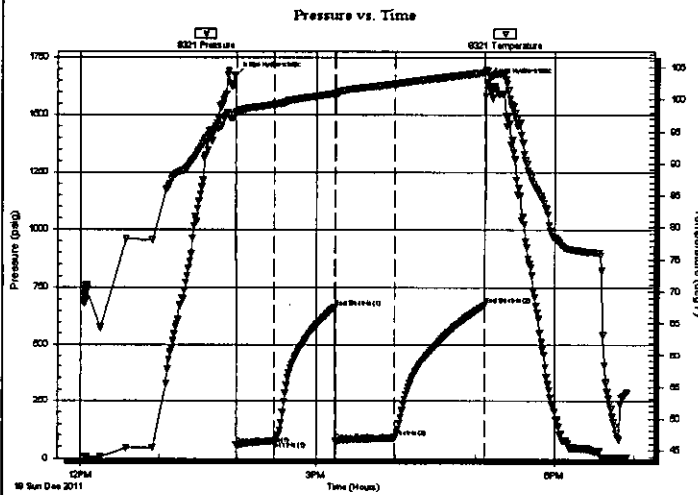
24-19s-10w Rice,KS  
**Kathy #2-24**  
 Job Ticket: 46241      DST#: 1  
 Test Start: 2011.12.18 @ 12:02:53

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 13:58:53  
 Time Test Ended: 18:54:23  
 Interval: **3205.00 ft (KB) To 3284.00 ft (KB) (TVD)**  
 Total Depth: **3284.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Good**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Jeff Brown**  
 Unit No: **44**  
 Reference Elevations: **1747.00 ft (KB)**  
**1739.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

**Serial #: 8321      Inside**  
 Press@RunDepth: **90.35 psig @ 3273.00 ft (KB)**      Capacity: **8000.00 psig**  
 Start Date: **2011.12.18**      End Date: **2011.12.18**      Last Calib.: **2011.12.18**  
 Start Time: **12:02:54**      End Time: **18:54:23**      Time On Btm: **2011.12.18 @ 13:58:23**  
 Time Off Btm: **2011.12.18 @ 17:07:53**

**TEST COMMENT:** IFF-Fair blow built to 9 1/2 in  
 ISI-Weak surface blow back  
 FFF-Fair blow built to 9 1/2 in  
 FSI-Weak surface blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.57	97.97	Initial Hydro-static
1	57.47	97.92	Open To Flow (1)
30	73.63	99.17	Shut-In(1)
76	659.86	100.84	End Shut-In(1)
76	75.51	100.74	Open To Flow (2)
121	90.35	102.33	Shut-In(2)
188	672.33	104.15	End Shut-In(2)
190	1643.96	104.56	Final Hydro-static

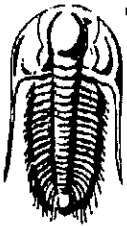
## Recovery

Length (ft)	Description	Volume (bbl)
43.00	OCGM 10%G20%O70%M	0.60
20.00	HOCM 45%O55%M	0.28
10.00	Gassy Oil 35%G65%O	0.14
0.00	157-GIP	0.00

## Gas Rates

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





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## DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc  
PO Box 399  
Garden City KS 67846  
  
ATTN: Cecil O Brate

**24-19s-10w Rice,KS**  
**Kathy #2-24**  
Job Ticket: 46241      **DST#: 1**  
Test Start: 2011.12.18 @ 12:02:53

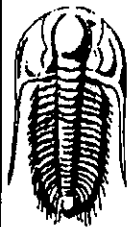
### Tool Information

Drill Pipe:	Length: 3200.00 ft	Diameter: 3.80 inches	Volume: 44.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: 44.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 36000.00 lb
Depth to Top Packer:	3205.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	79.00 ft			
Tool Length:	99.00 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			3186.00	
Shut In Tool	5.00			3191.00	
Hydraulic tool	5.00			3196.00	
Packer	4.00			3200.00	20.00      Bottom Of Top Packer
Packer	5.00			3205.00	
Stubb	1.00			3206.00	
Perforations	3.00			3209.00	
Change Over Sub	1.00			3210.00	
Drill Pipe	62.00			3272.00	
Change Over Sub	1.00			3273.00	
Recorder	0.00	8321	Inside	3273.00	
Recorder	0.00	8737	Outside	3273.00	
Perforations	8.00			3281.00	
Bullnose	3.00			3284.00	79.00      Bottom Packers & Anchor

**Total Tool Length: 99.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

American Warrior Inc

24-19s-10w Rice, KS

PO Box 399  
Garden City KS 67846

Kathy #2-24

Job Ticket: 46241

DST#: 1

ATTN: Cecil O Brate

Test Start: 2011.12.18 @ 12:02:53

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

43 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm m

Gas Cushion Pressure:

psig

Salinity: 7100.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
43.00	OOGM 10%G20%O70%M	0.603
20.00	HOCM 45%O55%M	0.281
10.00	Gassy Oil 35%G65%O	0.140
0.00	157-GIP	0.000

Total Length: 73.00 ft

Total Volume: 1.024 bbl

Num Fluid Samples: 0

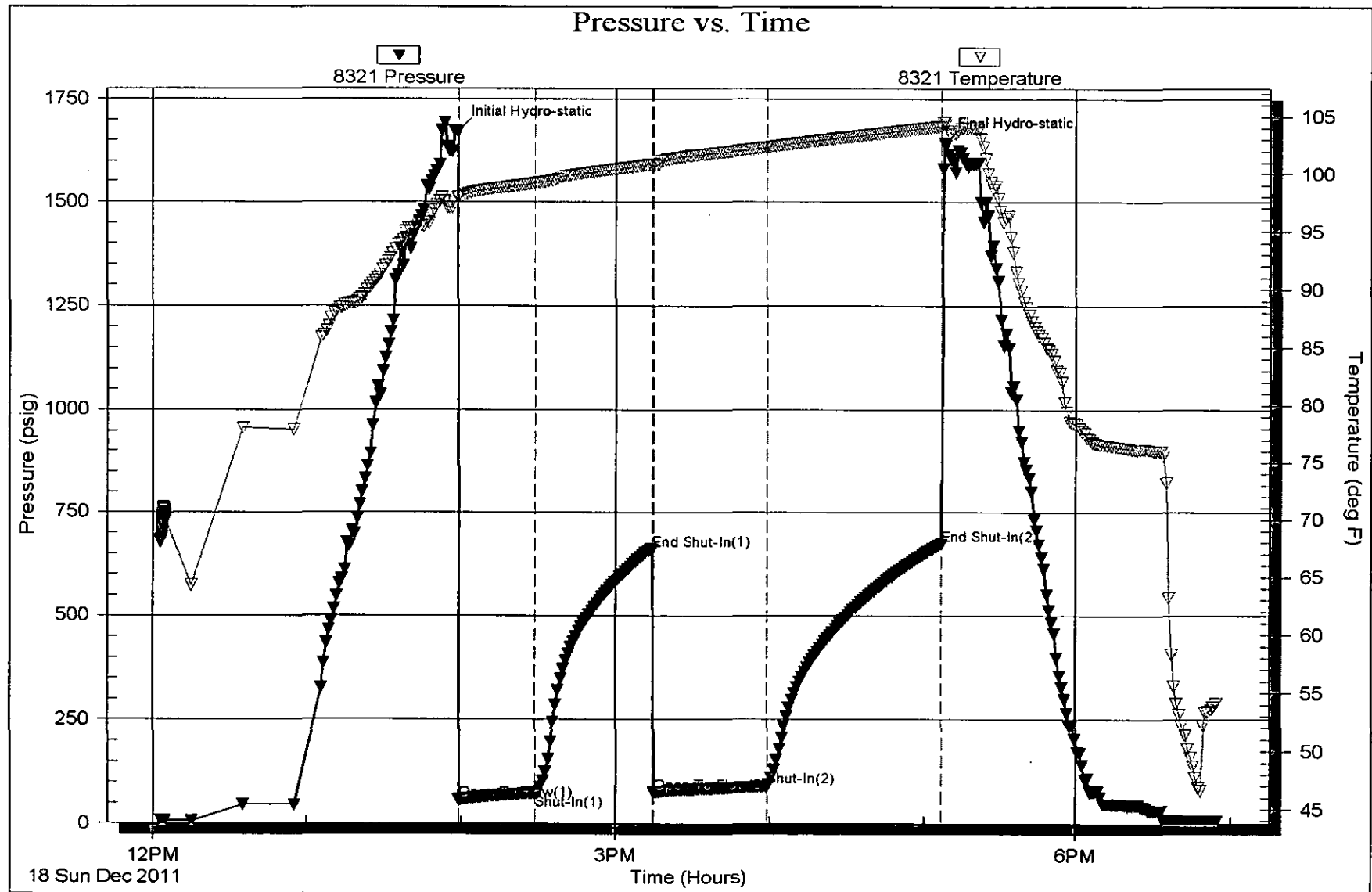
Num Gas Bombs: 0

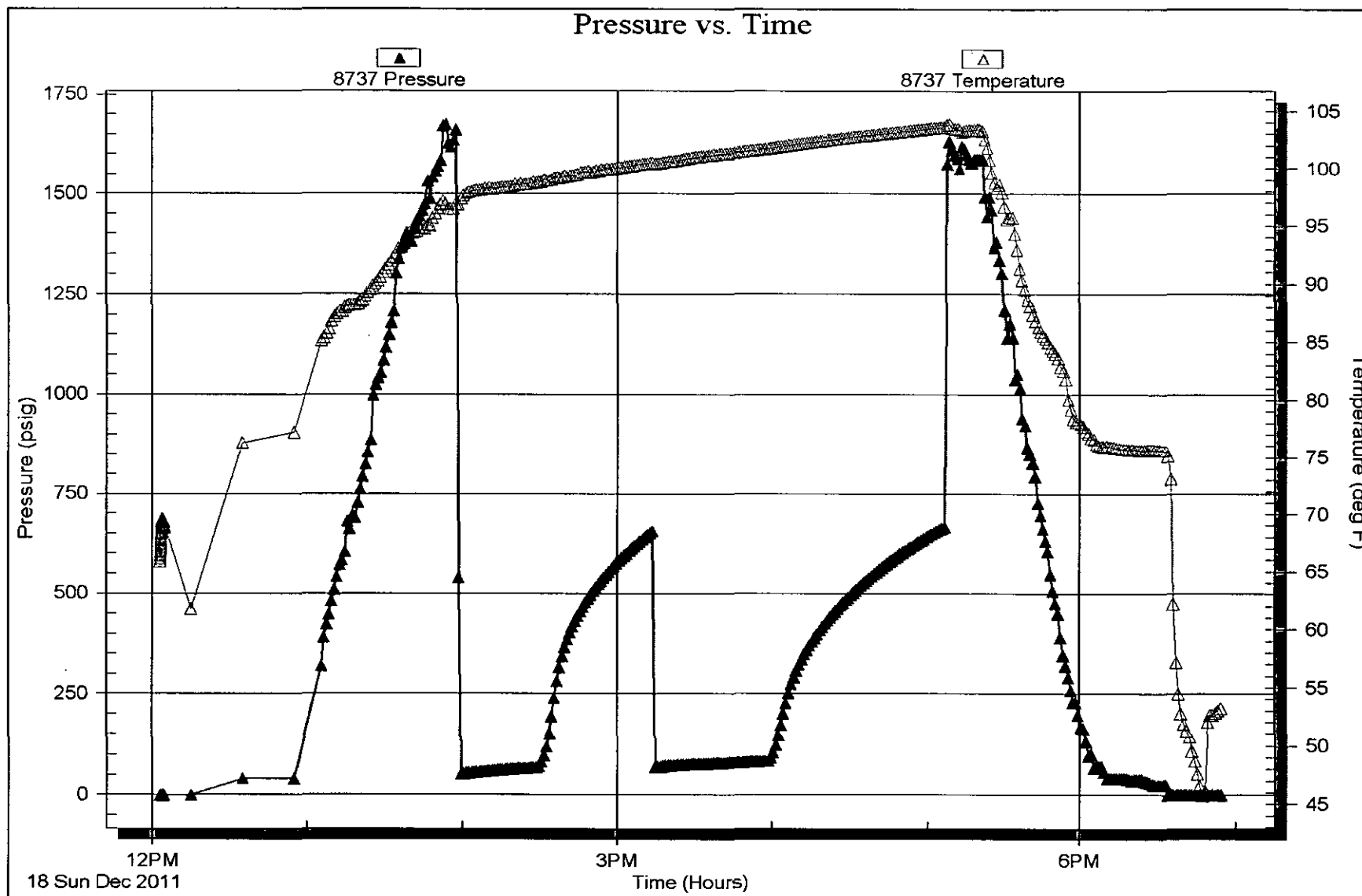
Serial #:

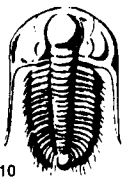
Laboratory Name:

Laboratory Location:

Recovery Comments:







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

# RECEIVED

DEC 21 2011

## Test Ticket

NO. 46241

BY: \_\_\_\_\_

Well Name & No. Kathy #2-24 Test No. 1 Date 12-18-11  
 Company American Warrior INC Elevation 1747 KB 1739 GL  
 Address PO Box 399 GARDEN CITY KS 67840  
 Co. Rep / Geo. JOSH AUSTIN Rig Duke #8  
 Location: Sec. 24 Twp. AS Rge. D W Co. Rice State KS

Interval Tested 3205-3284 Zone Tested Arbuckle  
 Anchor Length 79 Drill Pipe Run 3200 Mud Wt. 9.5  
 Top Packer Depth 3200 Drill Collars Run 0 Vis 53  
 Bottom Packer Depth 3205 Wt. Pipe Run 0 WL 9.6  
 Total Depth 3284 Chlorides 7100 ppm System LCM 0

Blow Description IP - Fair Blow Built to 9 1/2 IN  
BI - ~~Dead~~ No weak surface Blow Back  
FP - Fair Blow Built to 9 1/2 IN  
FS - Weak surface Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>43</u>	<u>OCCOM</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u>0</u>
<u>20</u>	<u>HOC m</u>		<u>45</u>	<u>55</u>	<u>0</u>
<u>10</u>	<u>CASSY oil</u>	<u>35</u>	<u>65</u>		
	<u>157-GIP</u>				

Rec Total 73 BHT 104 Gravity 43 API RW @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic 1671
- (B) First Initial Flow 57
- (C) First Final Flow 74
- (D) Initial Shut-In 460
- (E) Second Initial Flow 76
- (F) Second Final Flow 90
- (G) Final Shut-In 472
- (H) Final Hydrostatic 1644

- Test 1125
- Jars \_\_\_\_\_
- Safety Joint \_\_\_\_\_
- Circ Sub \_\_\_\_\_
- Hourly Standby \_\_\_\_\_
- Mileage 142 RT 19880
- Sampler \_\_\_\_\_
- Straddle \_\_\_\_\_
- Shale Packer \_\_\_\_\_
- Extra Packer \_\_\_\_\_
- Extra Recorder \_\_\_\_\_
- Day Standby \_\_\_\_\_
- Accessibility \_\_\_\_\_
- Sub Total 1323.80

T-On Location 11:23  
 T-Started 12:02  
 T-Open 13:58  
 T-Pulled 16:58  
 T-Out 18:54

Comments \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1323.80  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 40

Approved By \_\_\_\_\_ Our Representative Jeff Brown

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