



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

3118 Cummins Rd.
Garden City, KS 67846

ATTN: Jason T. Alm

24-18s-22w Ness,KS

Baumgarten Unit #1-24

Start Date: 2013.11.30 @ 11:02:00

End Date: 2013.11.30 @ 19:24:00

Job Ticket #: 54544 DST #: 1

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

Printed: 2013.12.04 @ 09:46:08

American Warrior Inc.

Baumgarten Unit #1-24

24-18s-22w Ness,KS

DST # 1

Mississippi

2013.11.30



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.
3118 Cummins Rd.
Garden City, KS 67846
ATTN: Jason T. Alm

Baumgarten Unit #1-24

24-18s-22w Ness,KS

Job Ticket: 54544 **DST#: 1**
Test Start: 2013.11.30 @ 11:02:00

GENERAL INFORMATION:

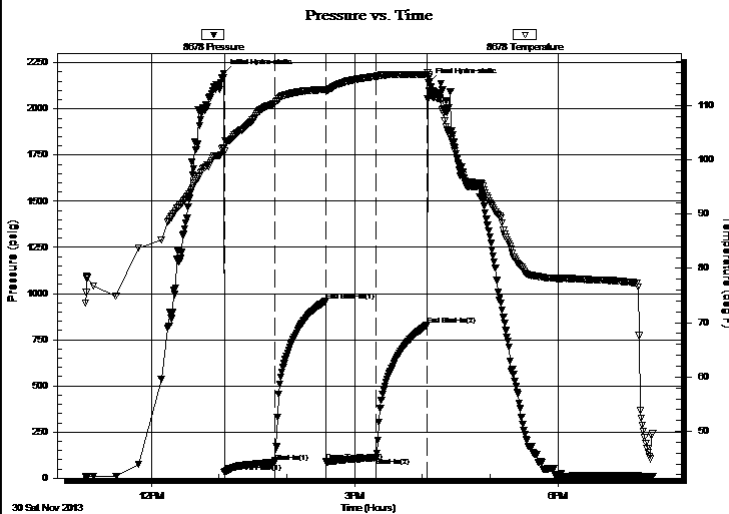
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:04:45
Time Test Ended: 19:24:00
Test Type: Conventional Bottom Hole (Initial)
Tester: Cornelio Landa III ()
Unit No: 69
Interval: **4232.00 ft (KB) To 4242.00 ft (KB) (TVD)**
Reference Elevations: 2155.00 ft (KB)
Total Depth: 4242.00 ft (KB) (TVD) 2149.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 8678

Inside

Press@RunDepth: 112.81 psig @ 4234.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.30 End Date: 2013.11.30 Last Calib.: 2013.11.30
Start Time: 11:02:05 End Time: 19:23:59 Time On Btm: 2013.11.30 @ 13:04:30
Time Off Btm: 2013.11.30 @ 16:05:30

TEST COMMENT: IF: BOB in 27 min.
IS: Bled off in 2 min.-Weak surface blow back-died in 20 min.
FF: BOB in 37 min.
FS: Bled off in 2 min.-Weak surface blow back-died in 10 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2193.67	102.16	Initial Hydro-static
1	32.26	101.58	Open To Flow (1)
45	85.57	110.33	Shut-In(1)
90	959.91	112.91	End Shut-In(1)
91	90.23	112.61	Open To Flow (2)
135	112.81	115.36	Shut-In(2)
180	829.31	115.74	End Shut-In(2)
181	2141.01	115.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	Gmco 20g 20m 60o	0.31
212.00	Cgo 10g 90o	2.48
0.00	190 GIP	0.00
0.00	Gravity=43	0.00

Gas Rates

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



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American Warrior Inc.
3118 Cummins Rd.
Garden City, KS 67846
ATTN: Jason T. Alm

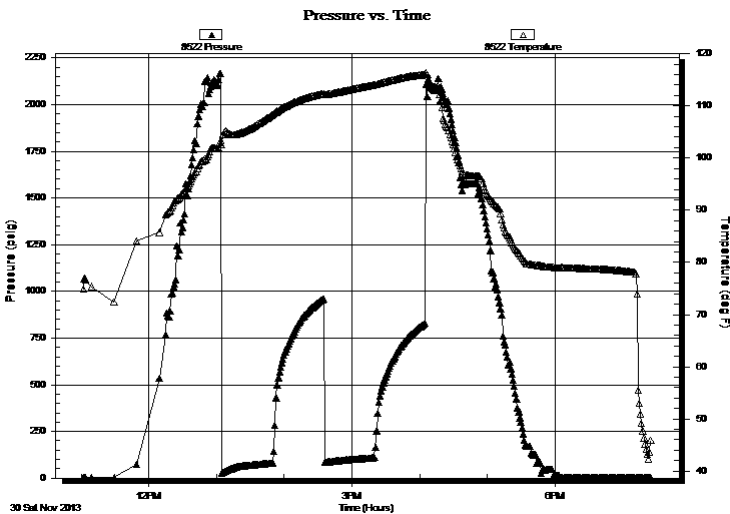
Baumgarten Unit #1-24
24-18s-22w Ness,KS
Job Ticket: 54544 **DST#: 1**
Test Start: 2013.11.30 @ 11:02:00

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:04:45
Time Test Ended: 19:24:00
Interval: **4232.00 ft (KB) To 4242.00 ft (KB) (TVD)**
Total Depth: 4242.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Cornelio Landa III (
Unit No: 69
Reference Elevations: 2155.00 ft (KB)
2149.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8522 Outside
Press@RunDepth: psig @ 4234.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.11.30 End Date: 2013.11.30 Last Calib.: 2013.11.30
Start Time: 11:02:05 End Time: 19:25:14 Time On Btm:
Time Off Btm:

TEST COMMENT: IF: BOB in 27 min.
IS: Bled off in 2 min.-Weak surface blow back-died in 20 min.
FF: BOB in 37 min.
FS: Bled off in 2 min.-Weak surface blow back-died in 10 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
63.00	Gmco 20g 20m 60o	0.31
212.00	Cgo 10g 90o	2.48
0.00	190 GIP	0.00
0.00	Gravity=43	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.
3118 Cummins Rd.
Garden City, KS 67846
ATTN: Jason T. Alm

Baumgarten Unit #1-24
24-18s-22w Ness,KS
Job Ticket: 54544 **DST#: 1**
Test Start: 2013.11.30 @ 11:02:00

Tool Information

Drill Pipe:	Length: 4098.00 ft	Diameter: 3.80 inches	Volume: 57.48 bbl	Tool Weight: 2500.00 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: 117.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 58.06 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4232.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	37.00 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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Change Over Sub	1.00			4206.00	
Shut In Tool	5.00			4211.00	
Hydraulic tool	5.00			4216.00	
Jars	5.00			4221.00	
Safety Joint	2.00			4223.00	
Packer	5.00			4228.00	27.00 Bottom Of Top Packer
Packer	4.00			4232.00	
Stubb	1.00			4233.00	
Perforations	1.00			4234.00	
Recorder	0.00	8678	Inside	4234.00	
Recorder	0.00	8522	Outside	4234.00	
Perforations	5.00			4239.00	
Bullnose	3.00			4242.00	10.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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FLUID SUMMARY

American Warrior Inc.

Baumgarten Unit #1-24

3118 Cummins Rd.
Garden City, KS 67846

24-18s-22w Ness,KS

Job Ticket: 54544

DST#: 1

ATTN: Jason T. Alm

Test Start: 2013.11.30 @ 11:02:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	Gmco 20g 20m 60o	0.310
212.00	Cgo 10g 90o	2.482
0.00	190 GIP	0.000
0.00	Gravity=43	0.000

Total Length: 275.00 ft

Total Volume: 2.792 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity=43
GIP=190

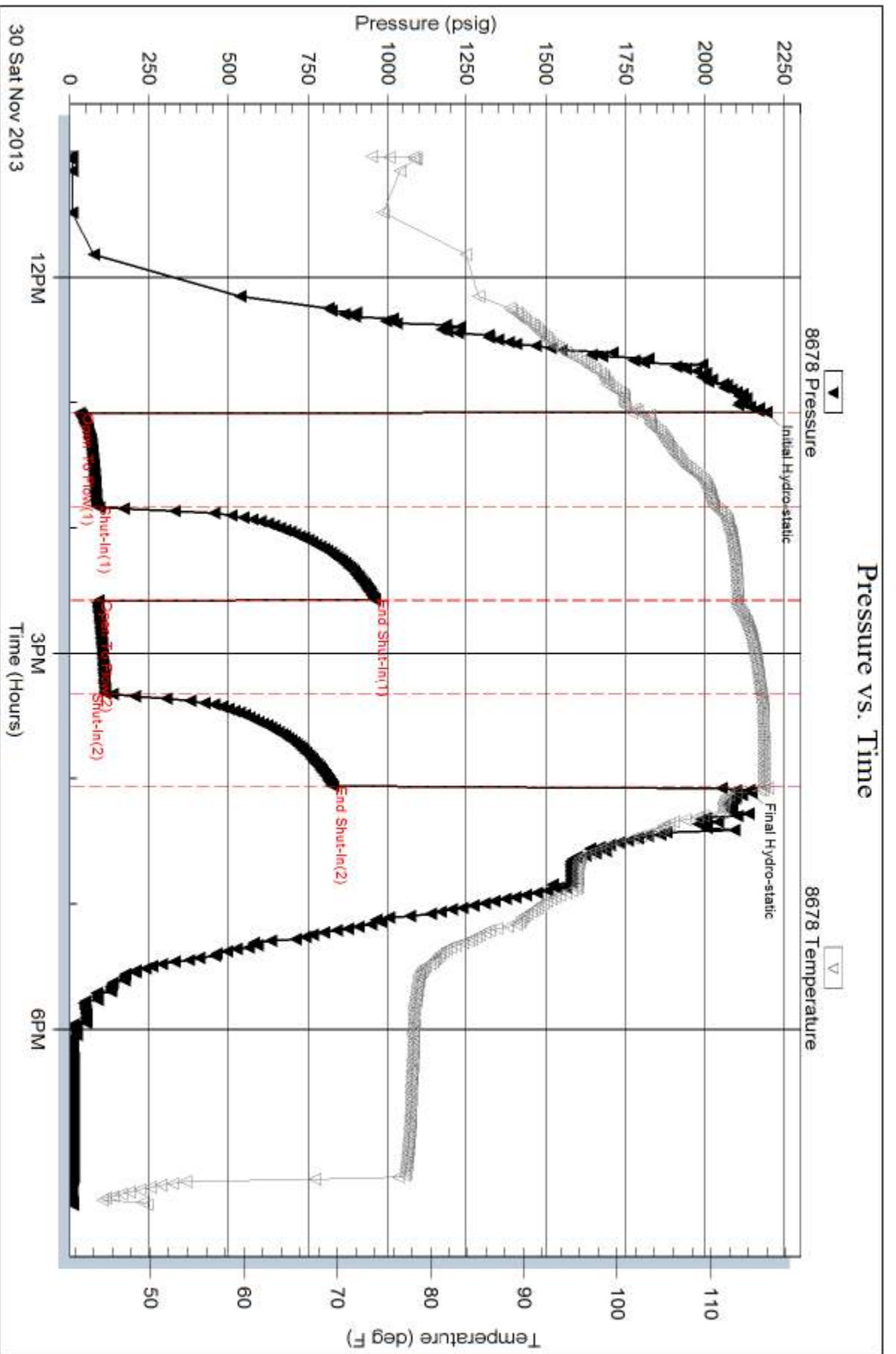
Serial #: 8678

Inside

American Warrior Inc.

24-18s-22w Ness, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54544

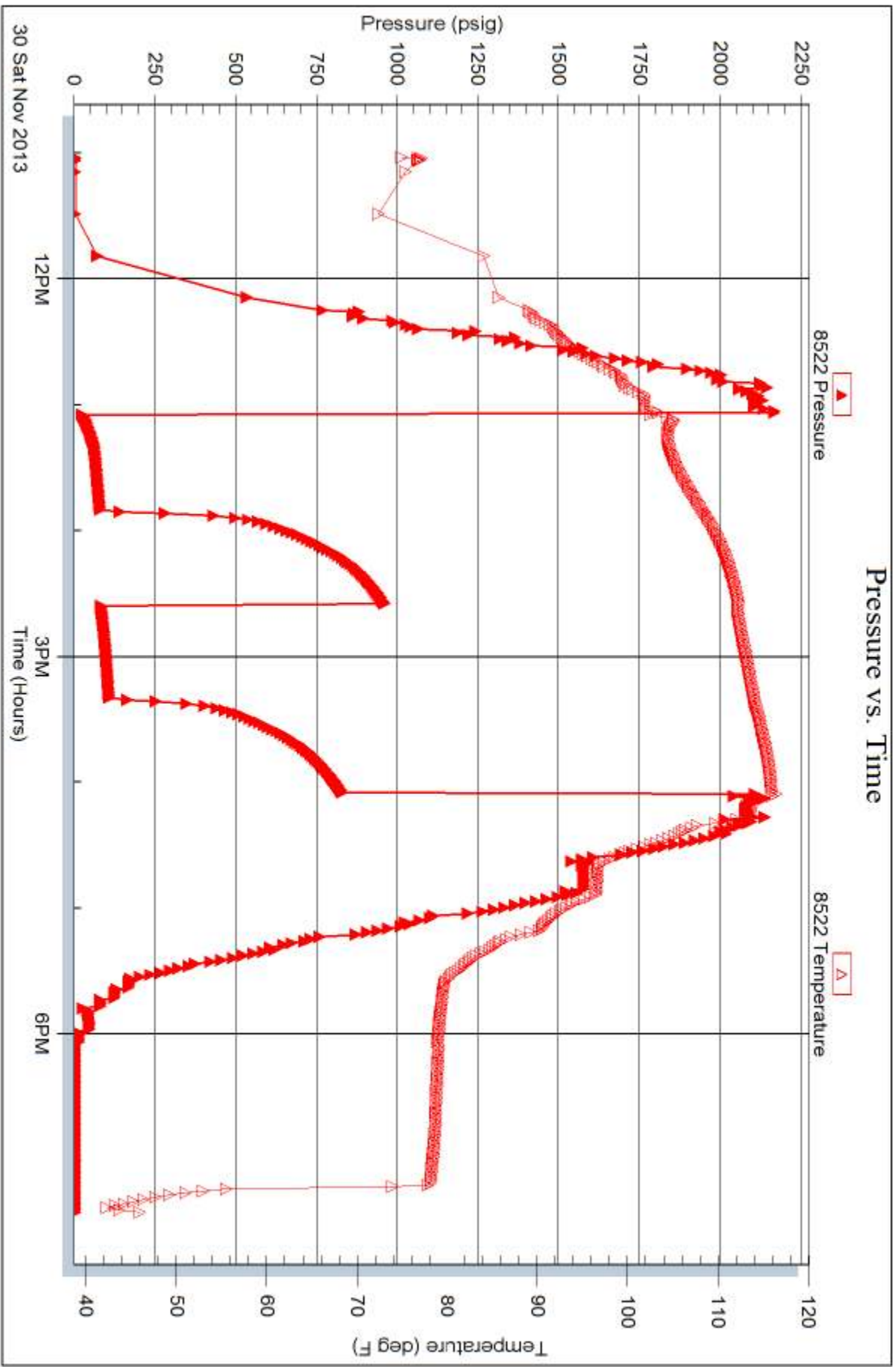
Printed: 2013.12.04 @ 09:46:11

Serial #: 8522

Outside American Warrior Inc.

24-18s-22w Ness, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54544

Printed: 2013.12.04 @ 09:46:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54544

Well Name & No. Baumgarten Unit #1-24 Test No. 1 Date 11-30-13
 Company American Warrior Inc. Elevation 2155 KB 2149 GL
 Address 3118 Cummins Rd. - Garden City, KS 67846
 Co. Rep / Geo. Jason T Alm Rig Petromark #1
 Location: Sec. 24 Twp. 18-S Rge. 22-w Co. Ness State KS

Interval Tested 4232-4242 Zone Tested Mississippi
 Anchor Length 10 Drill Pipe Run 4098 Mud Wt. 9.5
 Top Packer Depth 4228 Drill Collars Run 117 Vis 60
 Bottom Packer Depth 4232 Wt. Pipe Run Ø WL 7.6
 Total Depth 4242 Chlorides 7,000 ppm System LCM#0

Blow Description IF: B.O.b. in 27 min.
FSI: Bled off in 2 min. - weak surface blowback - Died in 20 min.
FF: B.O.b. in 37 min.
FSI: Bled off in 2 min. - ~~weak~~ surface blowback - Died in 10 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>Gmco</u>	<u>20</u>	<u>60</u>	<u>20</u>	
<u>212</u>	<u>CGO</u>	<u>10</u>	<u>90</u>		
	<u>190 GIP</u>				

Rec Total 275 BHT 115 Gravity 43 API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic	<u>2193</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>10:00</u>
(B) First Initial Flow	<u>32</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>11:02</u>
(C) First Final Flow	<u>85</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>13:05</u>
(D) Initial Shut-In	<u>959</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>16:05</u>
(E) Second Initial Flow	<u>90</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>19:26</u>
(F) Second Final Flow	<u>112</u>	<input checked="" type="checkbox"/> Mileage	<u>137 RIT</u>	Comments	
(G) Final Shut-In	<u>829</u>	<input type="checkbox"/> Sampler	<u>106rt 164.30</u>		
(H) Final Hydrostatic	<u>2141</u>	<input type="checkbox"/> Straddle			

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

Ruined Shale Packer
 Ruined Packer
 Extra Packer
 Extra Copies
 Sub Total 0
 Total 1739.30
 MP/DST Disc't —

Sub Total 1739.30

Approved By _____ Our Representative [Signature]

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