



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Joseph #2-21

21-19s-25w Ness, KS

Start Date: 2013.08.16 @ 02:58:00

End Date: 2013.08.16 @ 09:42:45

Job Ticket #: 48775 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.20 @ 10:59:13



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

21-19s-25w Ness, KS
Joseph #2-21
Job Ticket: 48775 **DST#: 1**
Test Start: 2013.08.16 @ 02:58:00

Tool Information

Drill Pipe:	Length: 4116.00 ft	Diameter: 3.80 inches	Volume: 57.74 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: 25000.00 lb
Drill Collar:	Length: 280.00 ft	Diameter: 2.25 inches	Volume: 1.38 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.12 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4390.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 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			4364.00	
Shut In Tool	5.00			4369.00	
Hydraulic tool	5.00			4374.00	
Jars	5.00			4379.00	
Safety Joint	2.00			4381.00	
Packer	5.00			4386.00	27.00 Bottom Of Top Packer
Packer	4.00			4390.00	
Stubb	1.00			4391.00	
Recorder	0.00	8677	Inside	4391.00	
Recorder	0.00	8522	Outside	4391.00	
Perforations	23.00			4414.00	
Change Over Sub	1.00			4415.00	
Drill Pipe	31.00			4446.00	
Change Over Sub	1.00			4447.00	
Bullnose	3.00			4450.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

21-19s-25w Ness, KS
Joseph #2-21
Job Ticket: 48775 **DST#: 1**
Test Start: 2013.08.16 @ 02:58:00

Mud and Cushion Information

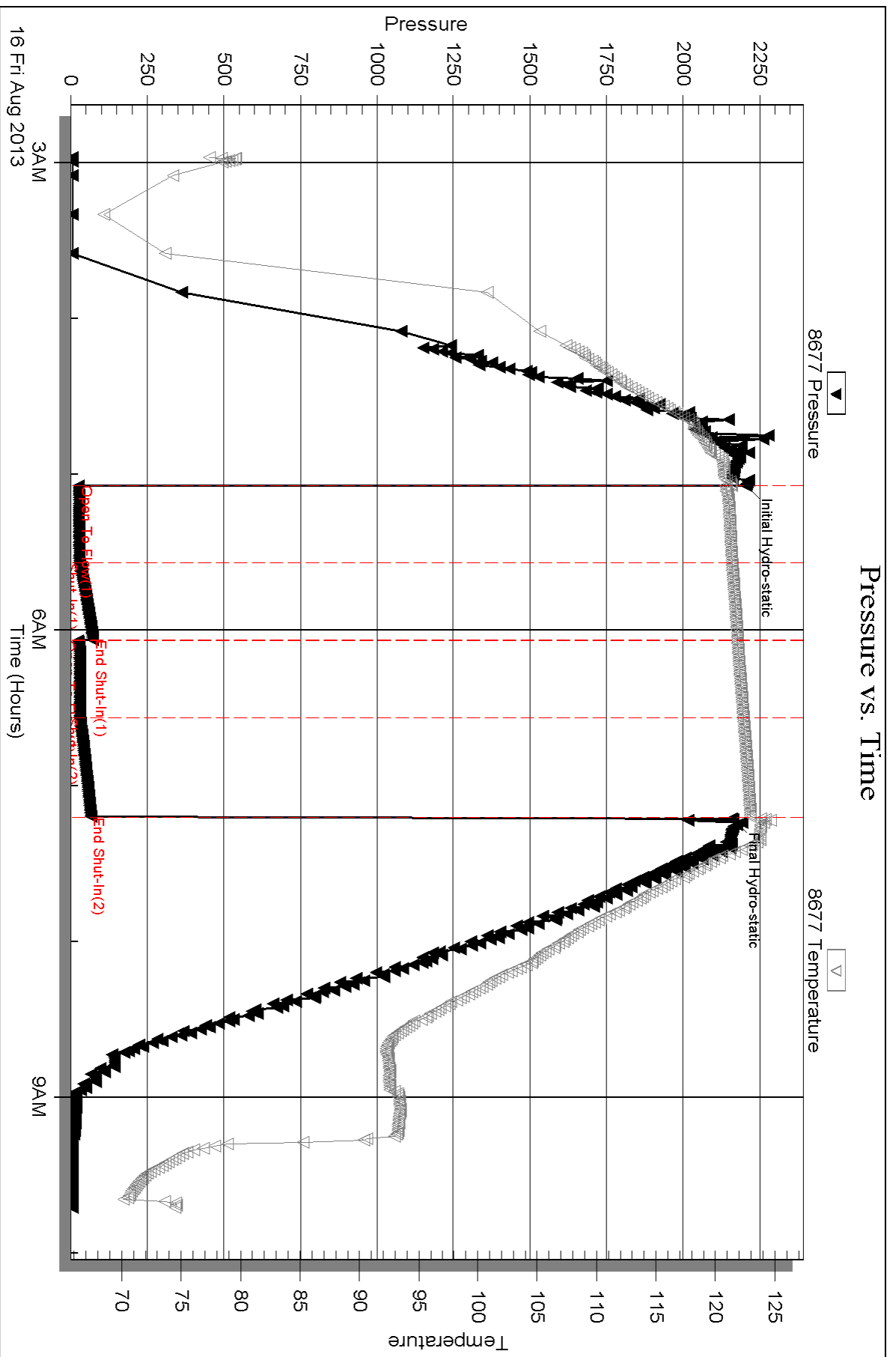
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	Mud 100m (oil spots)	0.030
0.00	100' GIP	0.000

Total Length: 6.00 ft Total Volume: 0.030 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

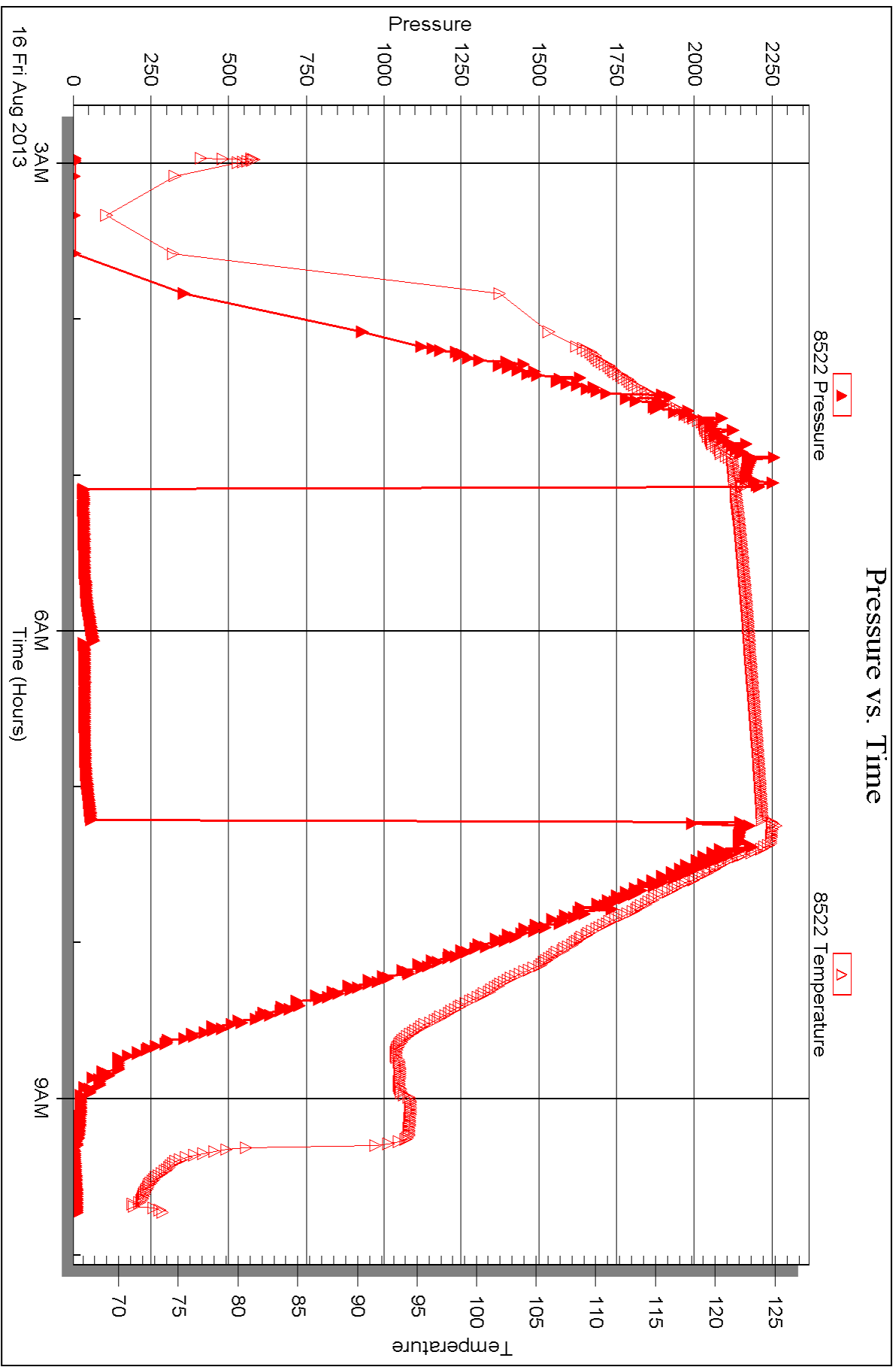


Serial #: 8522

Outside American Warrior, Inc

Joseph #2-21

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48775

Printed: 2013.08.20 @ 10:59:16



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc**

PO Box 399
Garden City, KS 67846

ATTN: Kevin Timson

Joseph #2-21

21-19s-25w Ness, KS

Start Date: 2013.08.16 @ 23:48:00

End Date: 2013.08.17 @ 05:06:00

Job Ticket #: 54977 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

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TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

21-19s-25w Ness, KS

Joseph #2-21

Job Ticket: 54977

DST#: 2

Test Start: 2013.08.16 @ 23:48:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 01:41:15
 Time Test Ended: 05:06:00
 Interval: **4456.00 ft (KB) To 4530.00 ft (KB) (TVD)**
 Total Depth: 4530.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bradley Walter
 Unit No: 69
 Reference Elevations: 2482.00 ft (KB)
 2472.00 ft (CF)
 KB to GR/CF: 10.00 ft

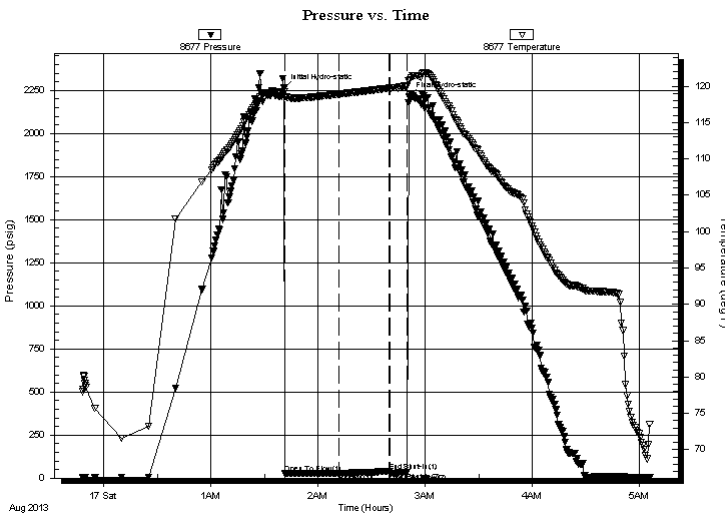
Serial #: 8677

Inside

Press@RunDepth: 28.91 psig @ 4457.00 ft (KB)
 Start Date: 2013.08.16 End Date: 2013.08.17
 Start Time: 23:48:05 End Time: 05:05:59
 Capacity: 8000.00 psig
 Last Calib.: 2013.08.17
 Time On Btm: 2013.08.17 @ 01:41:00
 Time Off Btm: 2013.08.17 @ 02:51:00

TEST COMMENT: IF: Surface blow, died @ 7 min.
 IS: No return.
 FF: Flushed tool, blow died.
 FS: Pulled tool.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.59	119.18	Initial Hydro-static
1	26.75	118.60	Open To Flow (1)
31	28.91	118.90	Shut-In(1)
59	40.97	119.73	End Shut-In(1)
60	28.10	119.74	Open To Flow (2)
69	32.04	120.03	Shut-In(2)
70	2214.15	120.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
4.00	Mud 100m	0.02

* Recovery from multiple tests

Gas Rates

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



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TOOL DIAGRAM

American Warrior, Inc
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

21-19s-25w Ness, KS
Joseph #2-21
Job Ticket: 54977 **DST#: 2**
Test Start: 2013.08.16 @ 23:48:00

Tool Information

Drill Pipe:	Length: 4179.00 ft	Diameter: 3.80 inches	Volume: 58.62 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: 25000.00 lb
Drill Collar:	Length: 280.00 ft	Diameter: 2.25 inches	Volume: 1.38 bbl	Weight to Pull Loose: 82000.00 lb
		Total Volume: 60.00 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4456.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 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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Change Over Sub	1.00			4430.00	
Shut In Tool	5.00			4435.00	
Hydraulic tool	5.00			4440.00	
Jars	5.00			4445.00	
Safety Joint	2.00			4447.00	
Packer	5.00			4452.00	27.00 Bottom Of Top Packer
Packer	4.00			4456.00	
Stubb	1.00			4457.00	
Recorder	0.00	8677	Inside	4457.00	
Recorder	0.00	8522	Outside	4457.00	
Perforations	5.00			4462.00	
Change Over Sub	1.00			4463.00	
Drill Pipe	63.00			4526.00	
Change Over Sub	1.00			4527.00	
Bullnose	3.00			4530.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc
PO Box 399
Garden City, KS 67846
ATTN: Kevin Timson

21-19s-25w Ness, KS
Joseph #2-21
Job Ticket: 54977 **DST#: 2**
Test Start: 2013.08.16 @ 23:48:00

Mud and Cushion Information

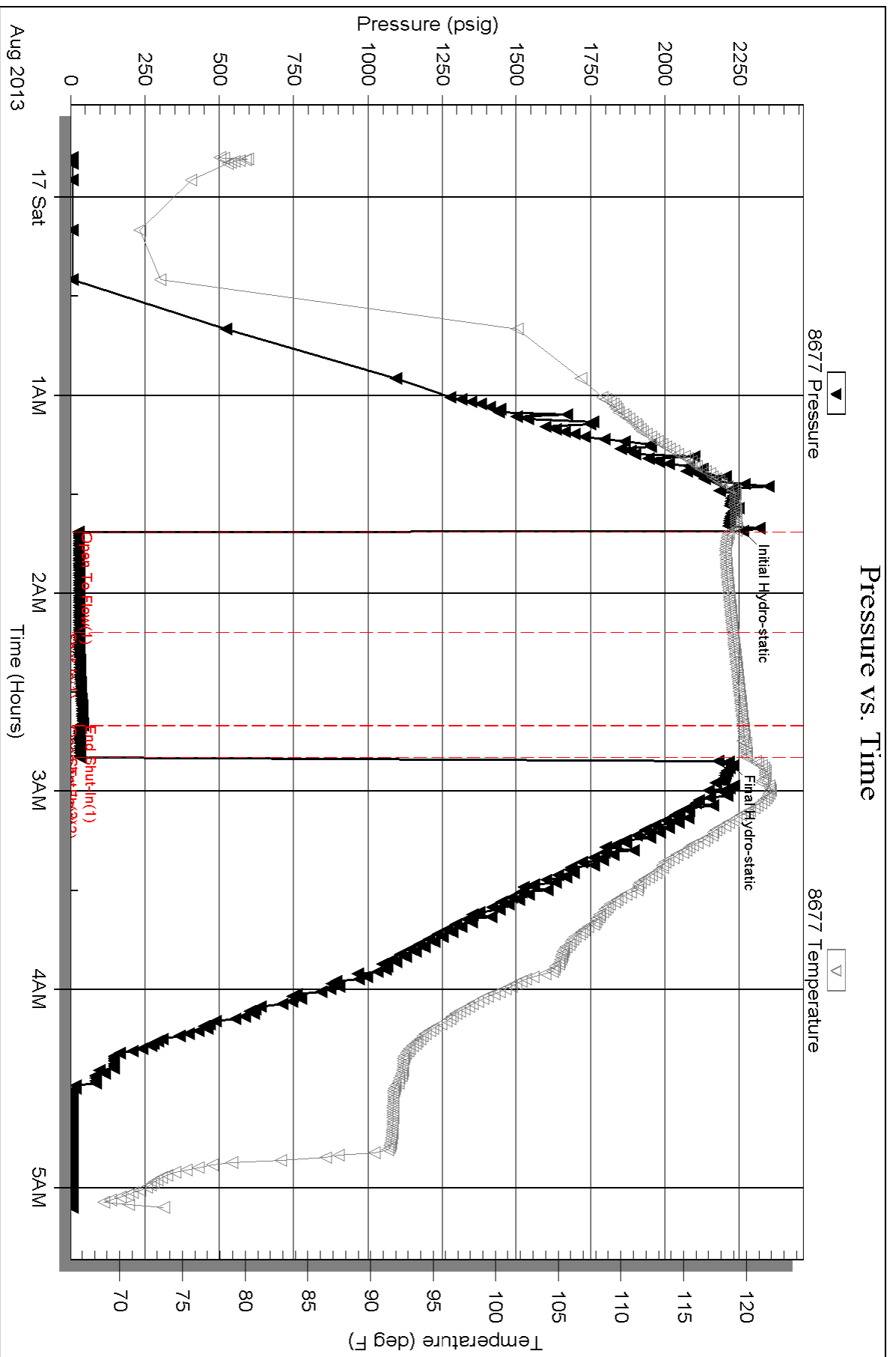
Mud Type: Gel Chem	Cushion Type:	Oil API:	0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	0 ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5300.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Mud 100m	0.020

Total Length: 4.00 ft Total Volume: 0.020 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

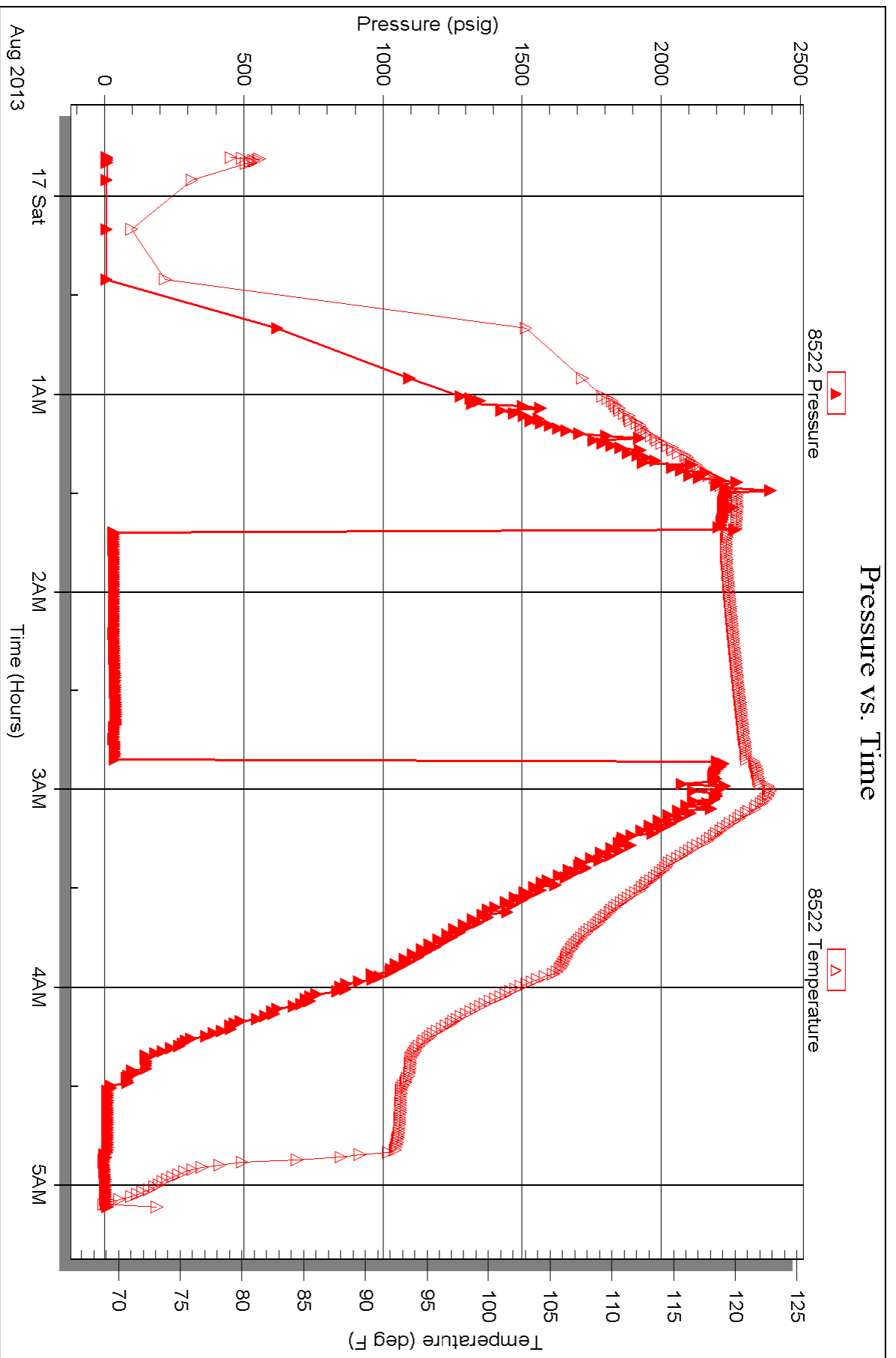


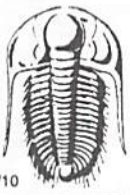
Serial #: 8522

Outside American Warrior, Inc

Joseph #2-21

DST Test Number: 2





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48775

Well Name & No. Joseph 2-21 Test No. 1 Date 8/16/13
 Company American Warrior, Inc Elevation 2482 KB 2472 GL
 Address P.O. Box 399 Garden City Ks 67846
 Co. Rep / Geo. Kevin Timson Rig Duke #5
 Location: Sec. 21 Twp. 19S Rge. 25W Co. Ness State Ks

Interval Tested 4390 - 4450 Zone Tested Ft. Scott
 Anchor Length 60' Drill Pipe Run 4116 Mud Wt. 9.3
 Top Packer Depth 4385 Drill Collars Run 290 Vis 48
 Bottom Packer Depth 4390 Wt. Pipe Run 0 WL 9.6
 Total Depth 4450 Chlorides 4,000 ppm System LCM 1 #
 Blow Description IF: 1" blow
ISI: No return.
FF: Surface blow
FSI: No return.

Rec	Feet of	(OIL SPOTS)	%gas	%oil	%water	%mud
<u>6</u>	<u>NO D</u>				<u>100</u>	
	<u>100' GIP</u>					

Rec Total 6 BHT 123 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2206</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0220</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0358</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0505</u>
(D) Initial Shut-In <u>73</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>0705</u>
(E) Second Initial Flow <u>24</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0944</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>103 RT</u> 159.65	Comments
(G) Final Shut-In <u>66</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2164</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1734.65</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1734.65</u>	

Approved By _____ Our Representative

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54977**

Well Name & No. Joseph 2-21 Test No. 2 Date 8/17/13
 Company American Warrior, Inc Elevation 2482 KB 2472 GL
 Address P.O. Box 399 Garden City, ks 67846
 Co. Rep / Geo. Kevin Timson Rig Puke #5
 Location: Sec. 21 Twp. 19S Rge. 25W Co. Ness State Ks

Interval Tested 4456 4530 Zone Tested Mississippian
 Anchor Length 74 Drill Pipe Run 4179 Mud Wt. 9.4
 Top Packer Depth 4451 Drill Collars Run 280 Vis 53
 Bottom Packer Depth 4456 Wt. Pipe Run 0 WL 9.6
 Total Depth 4530 Chlorides 5300 ppm System LCM TR

Blow Description IF: Surface blow, died @ 7min.
ISI: No return.
FF:
FSI:

Rec	Feet of	%gas	%oil	%water	%mud
<u>4</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4 BHT 120 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2263</u>	<input checked="" type="checkbox"/> Test 1250	T-On Location <u>2315</u>
(B) First Initial Flow <u>27</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>2348</u>
(C) First Final Flow <u>29</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>0142</u>
(D) Initial Shut-In <u>41</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/2</u>	T-Pulled <u>0252</u>
(E) Second Initial Flow <u>28</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0507</u>
(F) Second Final Flow <u>32</u>	<input checked="" type="checkbox"/> Mileage <u>103 R/T</u> 159.65	Comments
(G) Final Shut-In	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2214</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>FLUSH 10</u>	<input type="checkbox"/> Day Standby	Total <u>1734.65</u>
Final Shut-In	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1734.65</u>	

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.