



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Melvin #1-16

16-18s-21w Ness,KS

Start Date: 2013.09.24 @ 10:30:00

End Date: 2013.09.24 @ 18:49:00

Job Ticket #: 55751 DST #: 1

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

Printed: 2013.09.25 @ 12:58:49



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 399
 Garden City KS 67846
 ATTN: Jason Alm

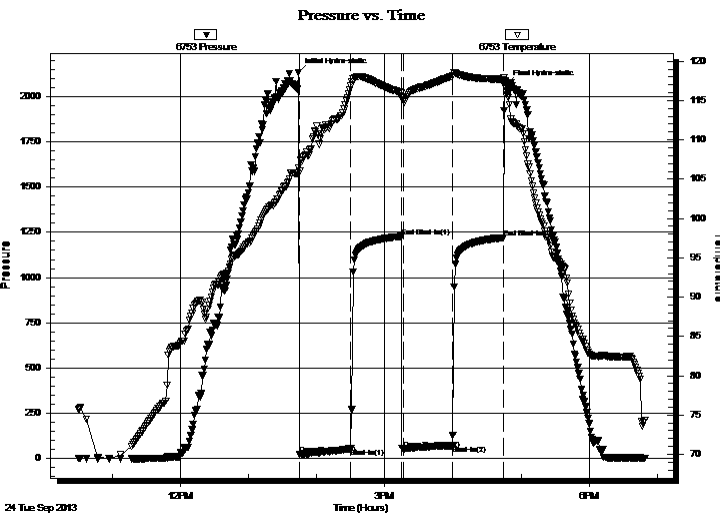
16-18s-21w Ness, KS
Melvin #1-16
 Job Ticket: 55751 **DST#: 1**
 Test Start: 2013.09.24 @ 10:30:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:45:00
 Time Test Ended: 18:49:00
 Interval: **4266.00 ft (KB) To 4272.00 ft (KB) (TVD)**
 Total Depth: 4272.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2180.00 ft (KB)
 2175.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753 Inside
 Press @ Run Depth: 71.84 psig @ 4267.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.24 End Date: 2013.09.24 Last Calib.: 2013.09.24
 Start Time: 10:30:05 End Time: 18:48:59 Time On Btm: 2013.09.24 @ 13:44:00
 Time Off Btm: 2013.09.24 @ 16:47:00

TEST COMMENT: IF-3 1/2" blow
 IS- No blow
 FF-3 1/2" blow
 FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2132.49	106.47	Initial Hydro-static
1	22.97	106.00	Open To Flow (1)
46	55.15	116.90	Shut-In(1)
91	1226.88	115.96	End Shut-In(1)
92	52.67	114.98	Open To Flow (2)
136	71.84	118.11	Shut-In(2)
181	1220.21	117.62	End Shut-In(2)
183	2064.92	115.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOMCW 10%O 50%W 40%M	0.10
100.00	SMWCO 80%O 15%W 5%M	0.49
15.00	VSGO 5%G 95%O	0.21

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 399
 Garden City KS 67846
 ATTN: Jason Alm

16-18s-21w Ness, KS
Melvin #1-16
 Job Ticket: 55751 **DST#: 1**
 Test Start: 2013.09.24 @ 10:30:00

GENERAL INFORMATION:

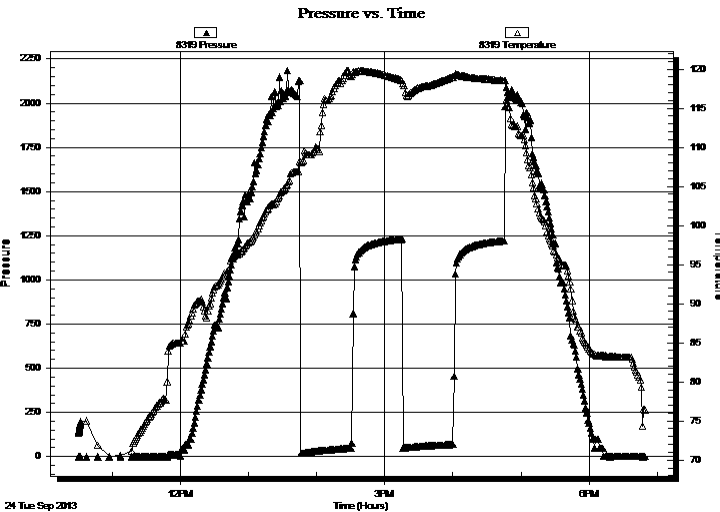
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:45:00
 Time Test Ended: 18:49:00
 Interval: **4266.00 ft (KB) To 4272.00 ft (KB) (TVD)**
 Total Depth: 4272.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2180.00 ft (KB)
 2175.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8319

Outside

Press @ Run Depth: psig @ 4267.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.24 End Date: 2013.09.24 Last Calib.: 2013.09.24
 Start Time: 10:30:05 End Time: 18:49:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-3 1/2" blow
 ISI-No blow
 FF-3 1/2" blow
 FSI-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOMCW 10%O 50%W 40%M	0.10
100.00	SMWCO 80%O 15%W 5%M	0.49
15.00	VSGO 5%G 95%O	0.21

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

16-18s-21w Ness, KS

PO Box 399
Garden City KS 67846

Melvin #1-16

Job Ticket: 55751

DST#: 1

ATTN: Jason Alm

Test Start: 2013.09.24 @ 10:30:00

Tool Information

Drill Pipe:	Length: 4132.00 ft	Diameter: 3.80 inches	Volume: 57.96 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4266.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	34.00 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			4239.00	
Shut In Tool	5.00			4244.00	
Hydraulic tool	5.00			4249.00	
Jars	5.00			4254.00	
Safety Joint	2.00			4256.00	
Packer	5.00			4261.00	28.00 Bottom Of Top Packer
Packer	5.00			4266.00	
Stubb	1.00			4267.00	
Recorder	0.00	6753	Inside	4267.00	
Recorder	0.00	8319	Outside	4267.00	
Perforations	2.00			4269.00	
Bullnose	3.00			4272.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

16-18s-21w Ness, KS

PO Box 399
Garden City KS 67846

Melvin #1-16

Job Ticket: 55751

DST#: 1

ATTN: Jason Alm

Test Start: 2013.09.24 @ 10:30:00

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:

25000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	SOMCW 10%O 50%W 40%M	0.098
100.00	SMWCO 80%O 15%W 5%M	0.492
15.00	VSGO 5%G 95%O	0.210

Total Length: 135.00 ft

Total Volume: 0.800 bbl

Num Fluid Samples: 0

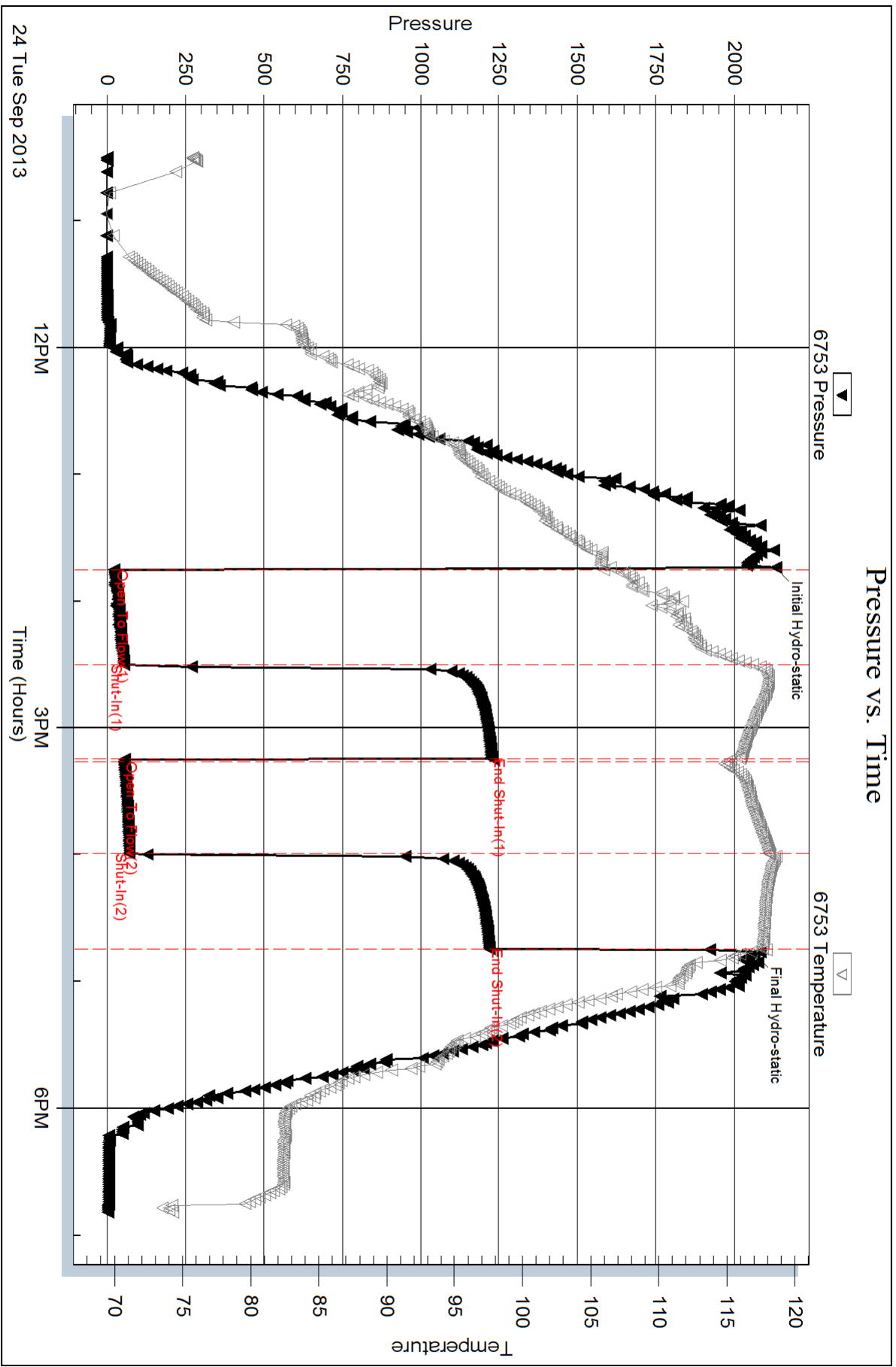
Num Gas Bombs: 0

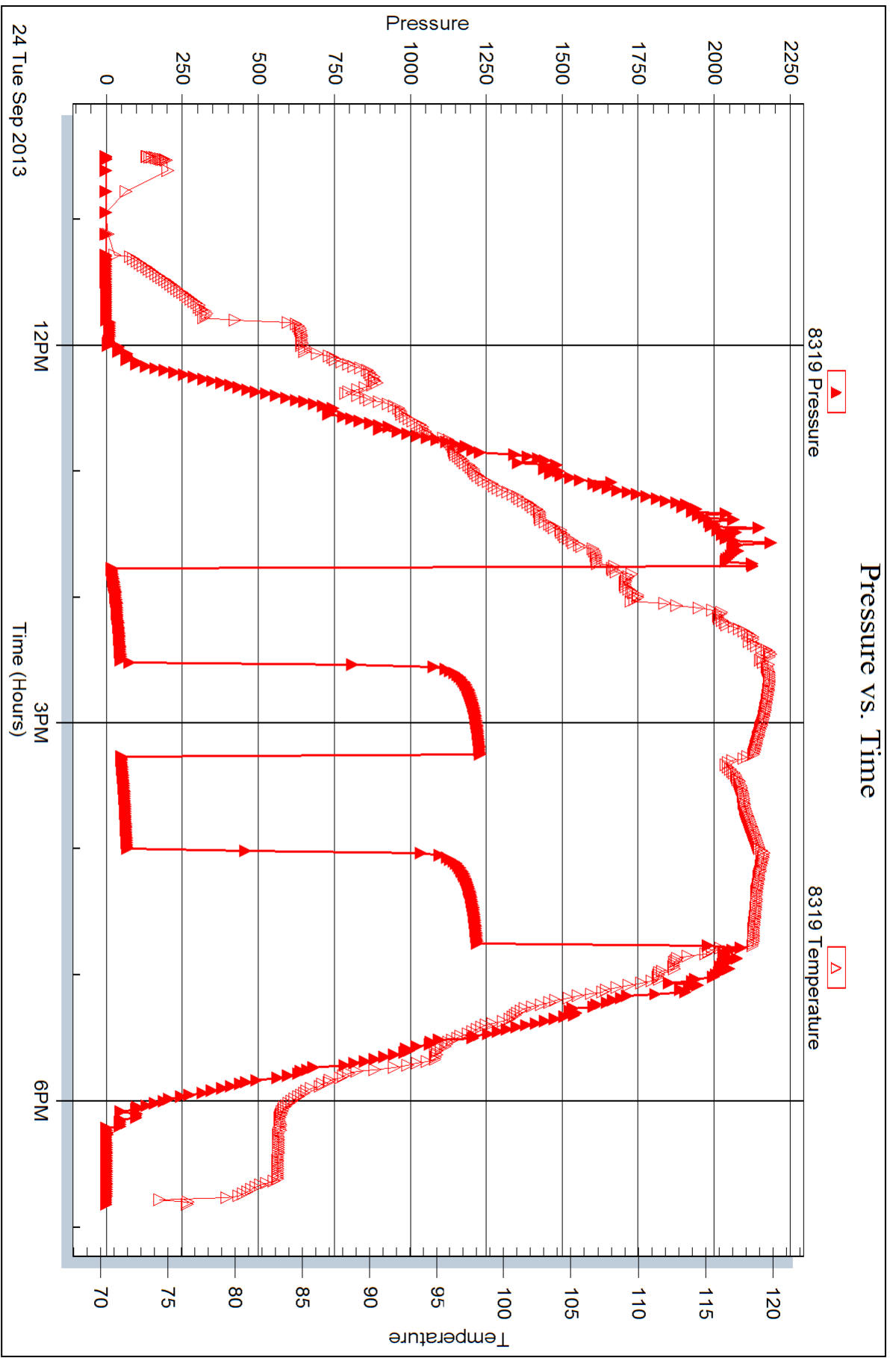
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Melvin #1-16

16-18s-21w Ness,KS

Start Date: 2013.09.25 @ 00:30:00

End Date: 2013.09.25 @ 08:23:00

Job Ticket #: 55752 DST #: 2

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

Printed: 2013.09.25 @ 12:56:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 399
 Garden City KS 67846
 ATTN: Jason Alm

16-18s-21w Ness, KS
Melvin #1-16
 Job Ticket: 55752 **DST#: 2**
 Test Start: 2013.09.25 @ 00:30:00

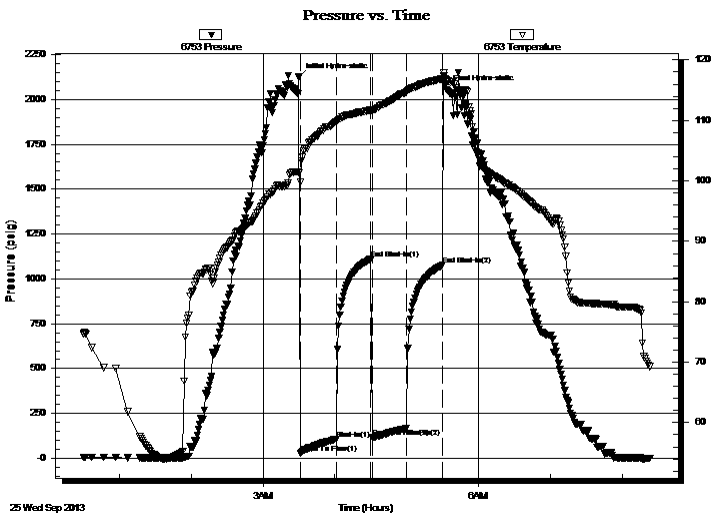
GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:31:00
 Time Test Ended: 08:23:00
 Interval: **4272.00 ft (KB) To 4278.00 ft (KB) (TVD)**
 Total Depth: 4278.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2180.00 ft (KB)
 2175.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 6753 Inside
 Press @ Run Depth: 166.73 psig @ 4273.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.09.25 End Date: 2013.09.25 Last Calib.: 2013.09.25
 Start Time: 00:30:05 End Time: 08:22:59 Time On Btm: 2013.09.25 @ 03:30:00
 Time Off Btm: 2013.09.25 @ 05:33:00

TEST COMMENT: IF-BOB in 12 min
 IS-1" blow
 FF-BOB in 12 min
 FS-1/4" blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.62	101.32	Initial Hydro-static
1	27.80	99.75	Open To Flow (1)
31	108.03	109.78	Shut-In(1)
60	1112.24	111.71	End Shut-In(1)
61	116.64	111.50	Open To Flow (2)
90	166.73	114.66	Shut-In(2)
120	1077.08	116.90	End Shut-In(2)
123	2055.78	116.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
145.00	SMOCW 10%O 85%W 5%M	0.94
230.00	SGO 10%G 90%O	3.23

* Recovery from multiple tests

Gas Rates

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



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DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 399
 Garden City KS 67846
 ATTN: Jason Alm

16-18s-21w Ness, KS

Melvin #1-16

Job Ticket: 55752

DST#: 2

Test Start: 2013.09.25 @ 00:30:00

GENERAL INFORMATION:

Formation: Miss			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 03:31:00		Tester: Brett Dickinson	
Time Test Ended: 08:23:00		Unit No: 59	
Interval: 4272.00 ft (KB) To 4278.00 ft (KB) (TVD)		Reference Elevations:	2180.00 ft (KB)
Total Depth: 4278.00 ft (KB) (TVD)			2175.00 ft (CF)
Hole Diameter: 7.88 inches	Hole Condition: Fair	KB to GR/CF:	5.00 ft

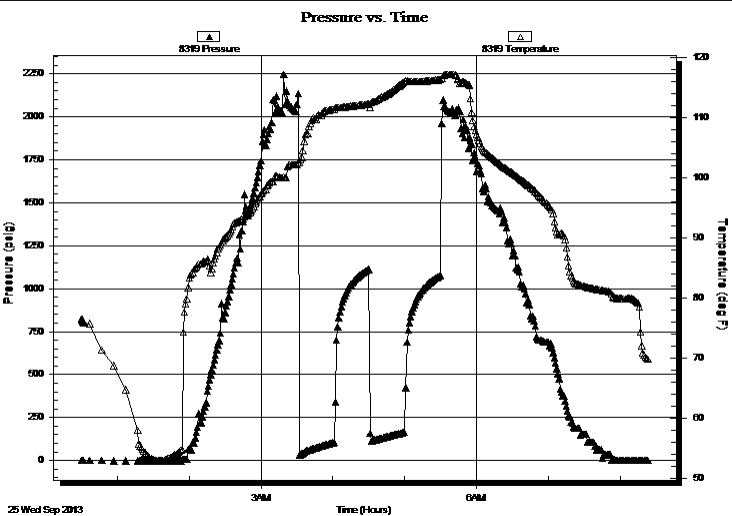
Serial #: 8319

Outside

Press @ Run Depth: psig @ 4273.00 ft (KB)
 Start Date: 2013.09.25 End Date: 2013.09.25
 Start Time: 00:30:05 End Time: 08:23:29

Capacity: 8000.00 psig
 Last Calib.: 2013.09.25
 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-BOB in 12 min
 ISI-1" blow
 FF-BOB in 12 min
 FSI-1/4" blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
145.00	SMOCW 10%O 85%W 5%M	0.94
230.00	SGO 10%G 90%O	3.23

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

16-18s-21w Ness, KS

PO Box 399
Garden City KS 67846

Melvin #1-16

Job Ticket: 55752

DST#: 2

ATTN: Jason Alm

Test Start: 2013.09.25 @ 00:30:00

Tool Information

Drill Pipe:	Length: 4154.00 ft	Diameter: 3.80 inches	Volume: 58.27 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4272.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	6.00 ft				
Tool Length:	34.00 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			4245.00	
Shut In Tool	5.00			4250.00	
Hydraulic tool	5.00			4255.00	
Jars	5.00			4260.00	
Safety Joint	2.00			4262.00	
Packer	5.00			4267.00	28.00 Bottom Of Top Packer
Packer	5.00			4272.00	
Stubb	1.00			4273.00	
Recorder	0.00	6753	Inside	4273.00	
Recorder	0.00	8319	Outside	4273.00	
Perforations	2.00			4275.00	
Bullnose	3.00			4278.00	6.00 Bottom Packers & Anchor

Total Tool Length: 34.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

16-18s-21w Ness, KS

PO Box 399
Garden City KS 67846

Melvin #1-16

Job Ticket: 55752

DST#: 2

ATTN: Jason Alm

Test Start: 2013.09.25 @ 00:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

27000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
145.00	SMOCW 10%O 85%W 5%M	0.941
230.00	SGO 10%G 90%O	3.226

Total Length: 375.00 ft

Total Volume: 4.167 bbl

Num Fluid Samples: 0

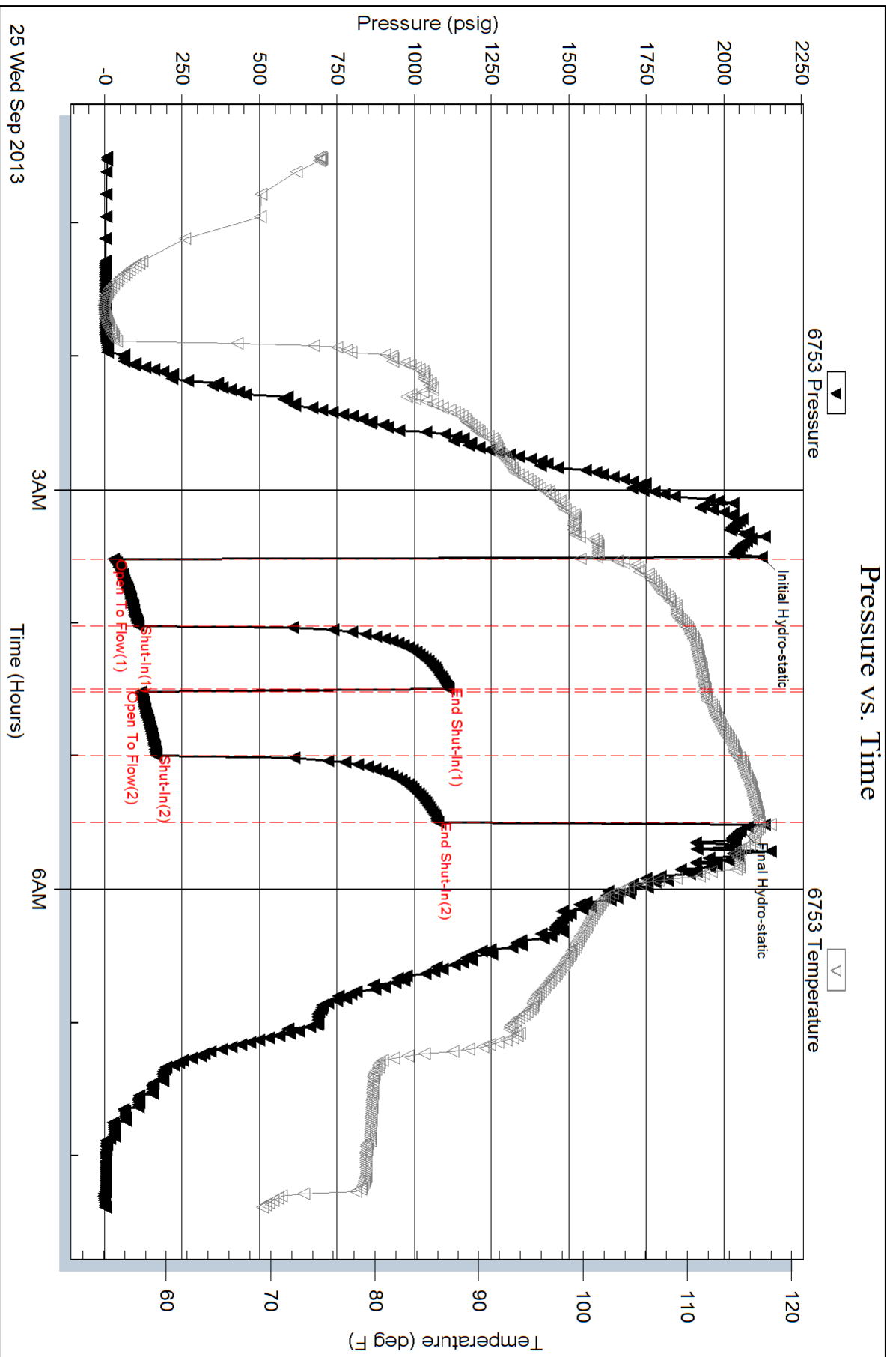
Num Gas Bombs: 0

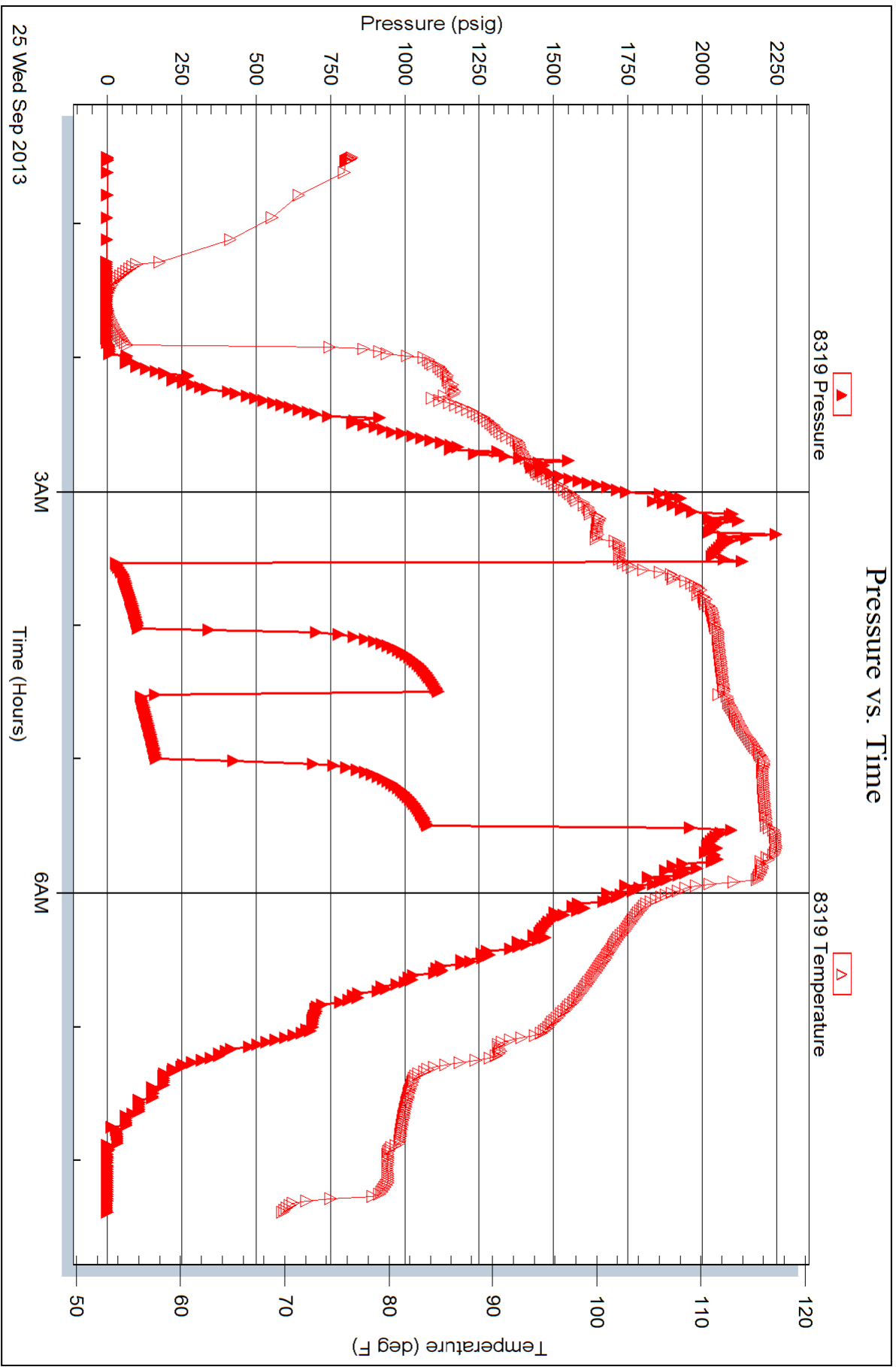
Serial #:

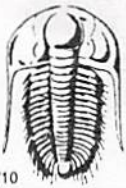
Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55751**

4/10

Well Name & No. Melvin #1-16 Test No. 1 Date 9/24/13
 Company American Warrior, Inc. Elevation 2180 KB 2175 GL
 Address PO Box 399 Garden City KS 67846
 Co. Rep / Geo. _____ Rig Pctromark #1
 Location: Sec. 16 Twp. 18 Rge. 21 Co. Neess State KS

Interval Tested 4266 - 4272 Zone Tested Miss
 Anchor Length 6 Drill Pipe Run 4122 Mud Wt. 9.3
 Top Packer Depth 4261 Drill Collars Run 120 Vis 58
 Bottom Packer Depth 4266 Wt. Pipe Run — WL 9.6
 Total Depth 4272 Chlorides 7,600 ppm System LCM _____
 Blow Description IF - 3 1/2 in blow
75 ft - No blow
ft - 3 1/2 in blow
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>YS60</u>	<u>5</u>	<u>95</u>		
<u>60</u>	<u>SMWCO</u>	<u>80</u>	<u>15</u>	<u>5</u>	<u>5</u>
<u>60</u>	<u>SATWCO SOMCW</u>	<u>10</u>	<u>50</u>	<u>40</u>	<u>40</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 135 BHT 118 Gravity _____ API RW .24 @ 80° F Chlorides 25,00 ppm

(A) Initial Hydrostatic 2132 Test 1250 T-On Location 10:15
 (B) First Initial Flow 83 Jars 250 T-Started 10:45
 (C) First Final Flow 55 Safety Joint 75 T-Open 13:50
 (D) Initial Shut-In 1,227 Circ Sub T-Pulled 16:50
 (E) Second Initial Flow 53 Hourly Standby T-Out 18:55
 (F) Second Final Flow 72 Mileage 104 - T161.20 Comments _____
 (G) Final Shut-In 1,220 Sampler _____
 (H) Final Hydrostatic 2,065 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 46 Ruined Packer _____
 Final Flow 45 Extra Copies _____
 Final Shut-In 45 Sub Total 0
 Total 1736.20
 MP/DST Disc't _____
 Sub Total 1736.20

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55752**

4/10

Well Name & No. Melvin #1-16 Test No. 2 Date 9/25/13
 Company American Warrior, Inc. Elevation 2180 KB 2175 GL
 Address _____
 Co. Rep / Geo. Jason Alm Rig Petromark #1
 Location: Sec. 16 Twp. 18 Rge. 21 Co. Nes State KS

Interval Tested 4272 - 4278 Zone Tested MISS
 Anchor Length 6 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 4267 Drill Collars Run 120 Vis 5.8
 Bottom Packer Depth 4272 Wt. Pipe Run _____ WL 9.6
 Total Depth 4278 Chlorides 2606 ppm System LCM _____

Blow Description FF - BOB in 12 min
FST - 1 in blow
FF - BOB in 12 min
FST - 1/4 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>230</u>	<u>SGO</u>	<u>10</u>	<u>90</u>		
<u>145</u>	<u>SMOCW</u>		<u>10</u>	<u>85</u>	<u>5</u>
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 375 BHT 117 Gravity 32 API RW 28 @ 65 °F Chlorides 27000 ppm
 (A) Initial Hydrostatic 2,124 Test 1250 T-On Location 00:15
 (B) First Initial Flow 28 Jars 250 T-Started 00:30
 (C) First Final Flow 108 Safety Joint 75 T-Open 3:30
 (D) Initial Shut-In 4,112 Circ Sub _____ T-Pulled 5:30
 (E) Second Initial Flow 117 Hourly Standby _____ T-Out 28:25
 (F) Second Final Flow 167 Mileage 104.7 161.20
 (G) Final Shut-In 1,077 Sampler _____
 (H) Final Hydrostatic 2,056 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 0
 Total 1736.20
 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.