



DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Jim Musgrove

White #7-8

8-16S-10W Ellsworth, KS

Start Date: 2014.06.23 @ 05:31:15

End Date: 2014.06.23 @ 13:21:45

Job Ticket #: 59427 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 13:15:14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.

8-16S-10W Ellsworth, KS

PO Box 399
Garden City, KS 67846

White #7-8

Job Ticket: 59427

DST#: 1

ATTN: Jim Musgrove

Test Start: 2014.06.23 @ 05:31:15

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:39:45

Time Test Ended: 13:21:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 48

Interval: 3284.00 ft (KB) To 3346.00 ft (KB) (TVD)

Reference Elevations: 1873.00 ft (KB)

Total Depth: 3346.00 ft (KB) (TVD)

1865.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8321 Outside

Press@RunDepth: 835.36 psig @ 3285.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.23

End Date:

2014.06.23

Last Calib.:

2014.06.23

Start Time: 05:31:16

End Time:

13:21:45

Time On Btm:

2014.06.23 @ 08:37:15

Time Off Btm:

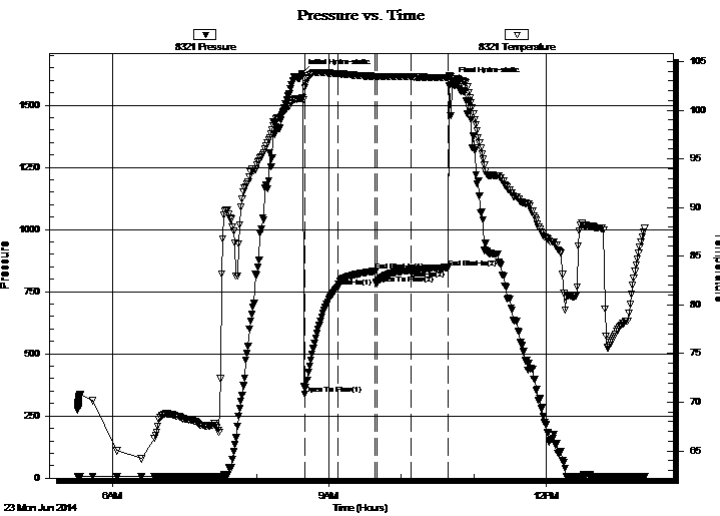
2014.06.23 @ 10:42:15

TEST COMMENT: 30- IF- BOB 30 secs

30- IS- No blow

30- FF- BOB 2 mins

30- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1628.56	101.21	Initial Hydro-static
3	338.50	102.32	Open To Flow (1)
30	767.33	103.73	Shut-In(1)
61	832.41	103.45	End Shut-In(1)
62	781.29	103.42	Open To Flow (2)
91	835.36	103.42	Shut-In(2)
122	847.53	103.35	End Shut-In(2)
125	1593.64	103.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.07
340.00	SOCM, 5%O 95%M	4.64
1575.00	MW, 10%M 90%W	21.52

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior, Inc.

8-16S-10W Ellsworth, KS

PO Box 399
Garden City, KS 67846

White #7-8

Job Ticket: 59427

DST#: 1

ATTN: Jim Musgrove

Test Start: 2014.06.23 @ 05:31:15

Tool Information

Drill Pipe:	Length: 3285.00 ft	Diameter: 3.75 inches	Volume: 44.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - 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: 77000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 47000.00 lb
Depth to Top Packer:	3284.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	62.00 ft			
Tool Length:	82.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3265.00	
Shut In Tool	5.00			3270.00	
Hydraulic tool	5.00			3275.00	
Packer	5.00			3280.00	20.00 Bottom Of Top Packer
Packer	4.00			3284.00	
Stubb	1.00			3285.00	
Recorder	0.00	8372	Inside	3285.00	
Recorder	0.00	8321	Outside	3285.00	
Perforations	24.00			3309.00	
Change Over Sub	1.00			3310.00	
Drill Pipe	32.00			3342.00	
Change Over Sub	1.00			3343.00	
Bullnose	3.00			3346.00	62.00 Bottom Packers & Anchor

Total Tool Length: 82.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

8-16S-10W Ellsworth, KS

PO Box 399
Garden City, KS 67846

White #7-8

Job Ticket: 59427

DST#: 1

ATTN: Jim Musgrove

Test Start: 2014.06.23 @ 05:31:15

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:

22000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	CO	0.068
340.00	SOCM, 5%O 95%M	4.645
1575.00	MW, 10%M 90%W	21.516

Total Length: 1920.00 ft Total Volume: 26.229 bbl

Num Fluid Samples: 0

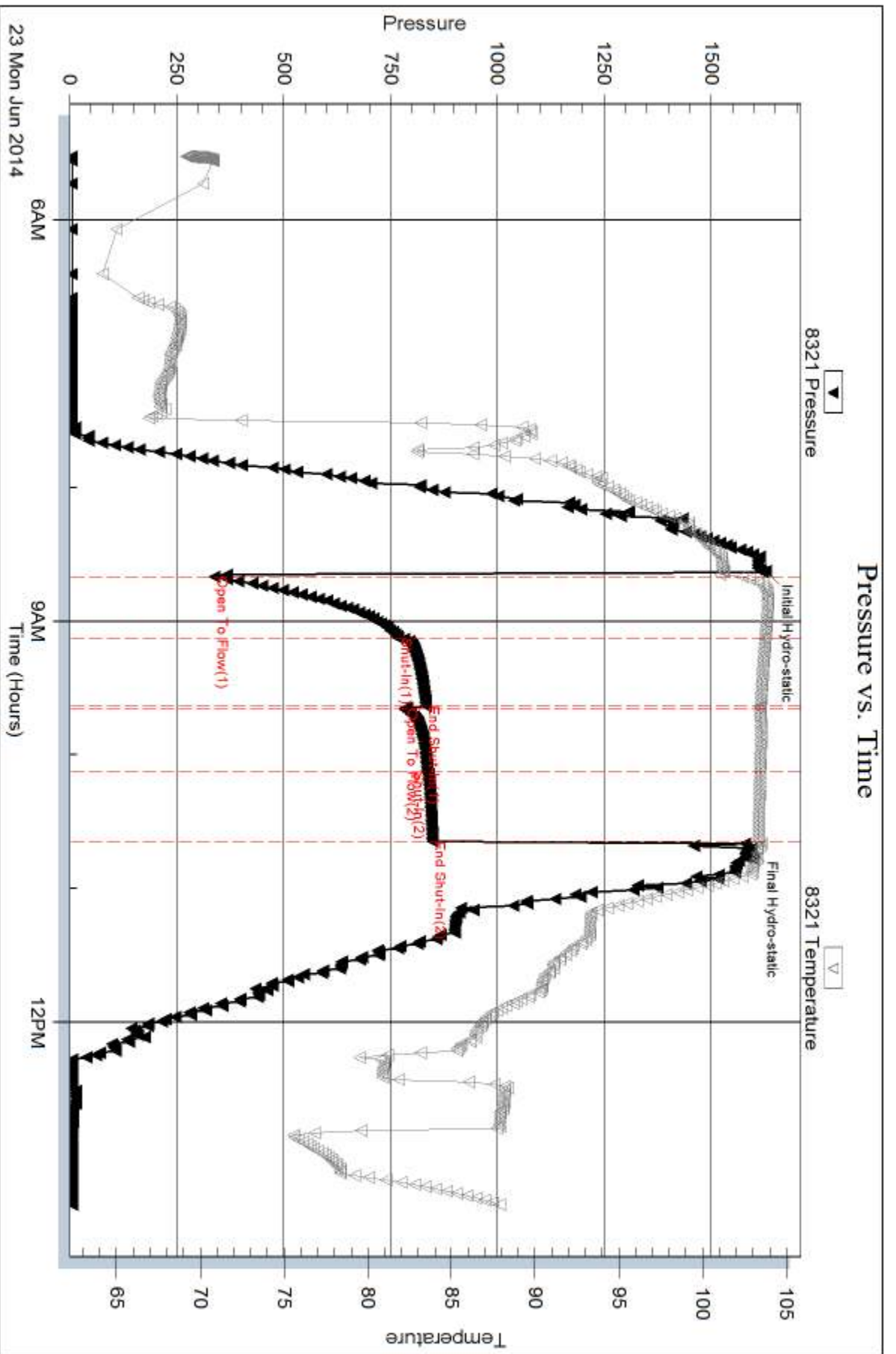
Num Gas Bombs: 0

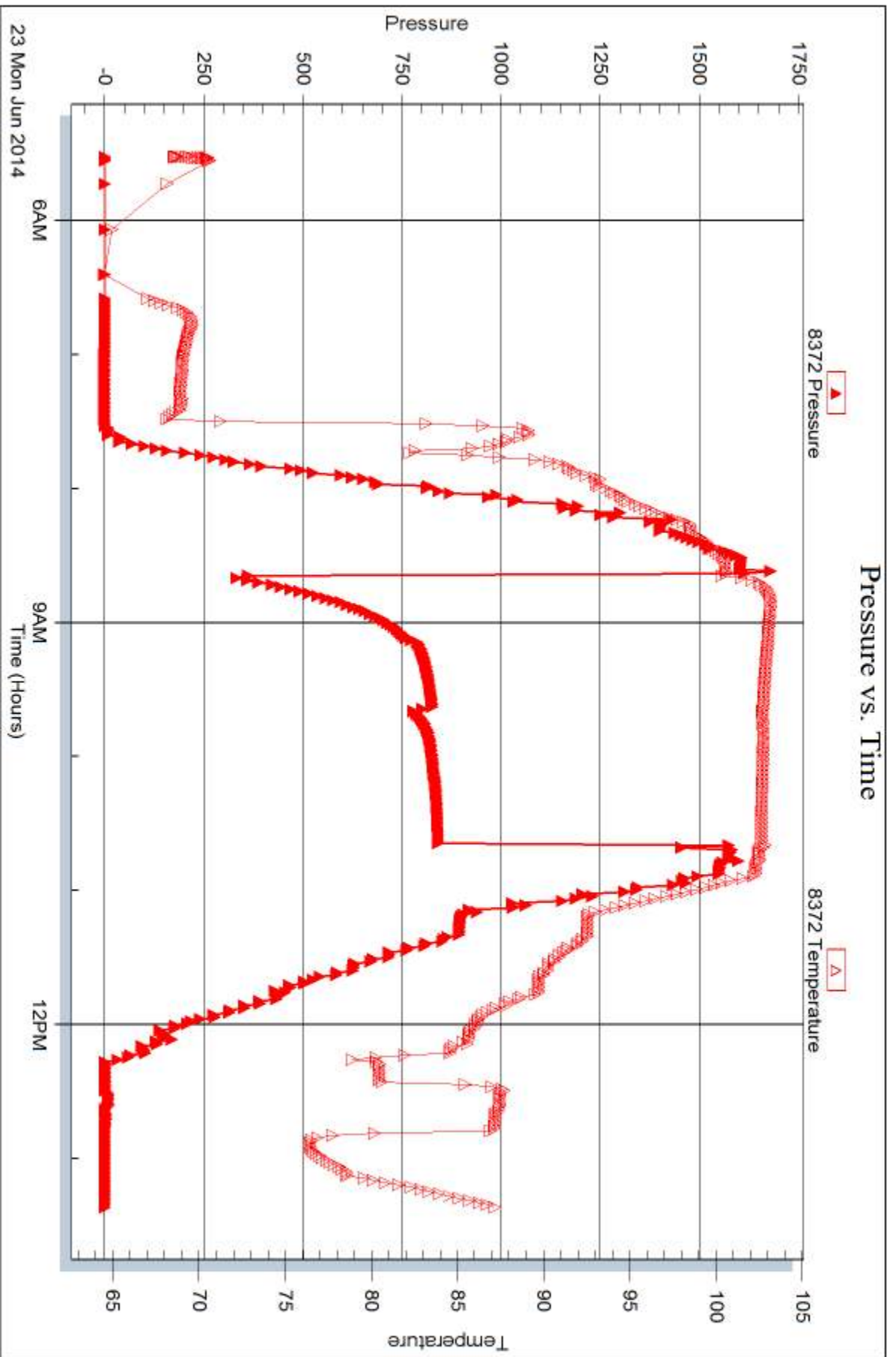
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **American Warrior, Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Jim Musgrove

White #7-8

8-16S-10W Ellsworth, KS

Start Date: 2014.06.24 @ 04:59:15

End Date: 2014.06.24 @ 13:18:15

Job Ticket #: 59428 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.26 @ 13:14:19



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior, Inc.
PO Box 399
Garden City, KS 67846
ATTN: Jim Musgrove

8-16S-10W Ellsworth, KS

White #7-8

Job Ticket: 59428 **DST#: 2**
Test Start: 2014.06.24 @ 04:59:15

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:18:45
Time Test Ended: 13:18:15
Interval: **3324.00 ft (KB) To 3338.00 ft (KB) (TVD)**
Total Depth: 3446.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 1873.00 ft (KB)
1865.00 ft (CF)
KB to GR/CF: 8.00 ft

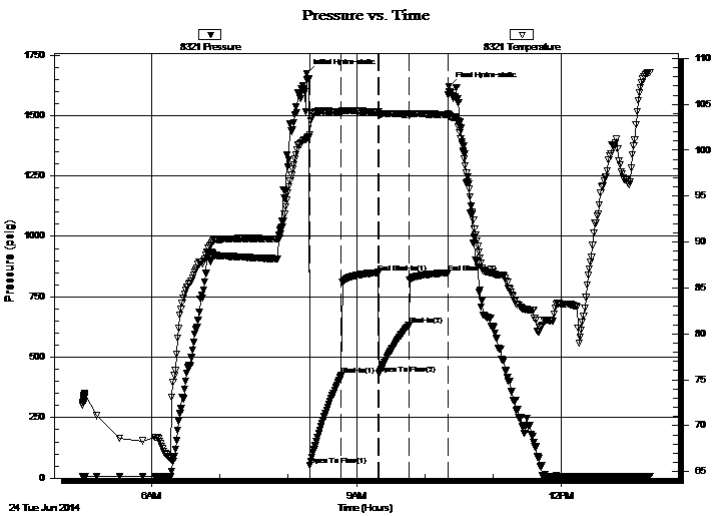
Serial #: 8321

Outside

Press@RunDepth: 634.36 psig @ 3325.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.06.24 End Date: 2014.06.24 Last Calib.: 2014.06.24
Start Time: 04:59:16 End Time: 13:18:15 Time On Btm: 2014.06.24 @ 08:16:15
Time Off Btm: 2014.06.24 @ 10:21:15

TEST COMMENT: 30- IF- BOB 1 min
30- IS- No blow
30- FF- BOB 3 mins
30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1674.96	101.28	Initial Hydro-static
3	53.57	101.67	Open To Flow (1)
31	425.58	104.12	Shut-In(1)
63	850.68	104.13	End Shut-In(1)
64	431.82	103.99	Open To Flow (2)
90	634.36	103.89	Shut-In(2)
124	849.45	103.86	End Shut-In(2)
125	1620.18	103.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	CO	0.27
465.00	GMCOw, 10%G 15%M 25%O 50%W	6.35
945.00	MW w / oil scum on top, 5%M 95%W	12.91
0.00	20' GIP	0.00

* 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.

8-16S-10W Ellsworth, KS

PO Box 399
Garden City, KS 67846

White #7-8

Job Ticket: 59428

DST#: 2

ATTN: Jim Musgrove

Test Start: 2014.06.24 @ 04:59:15

Tool Information

Drill Pipe:	Length: 3317.00 ft	Diameter: 3.75 inches	Volume: 45.31 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - 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: 70000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3324.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	3338.00 ft			
Interval between Packers:	14.00 ft			
Tool Length:	140.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3310.00	
Shut In Tool	5.00			3315.00	
Hydraulic tool	5.00			3320.00	
Packer	4.00			3324.00	15.00 Bottom Of Top Packer
Stubb	1.00			3325.00	
Recorder	0.00	8321	Outside	3325.00	
Recorder	0.00	8372	Inside	3325.00	
Perforations	9.00			3334.00	
Blank Off Sub	1.00			3335.00	
Blank Spacing	3.00			3338.00	
Packer	2.00			3340.00	14.00 Tool Interval
Packer	5.00			3345.00	
Recorder	0.00	8647	Below	3345.00	
Perforations	4.00			3349.00	
Change Over Sub	1.00			3350.00	
Drill Pipe	95.00			3445.00	
Change Over Sub	1.00			3446.00	
Bullnose	3.00			3449.00	111.00 Bottom Packers & Anchor

Total Tool Length: 140.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior, Inc.

8-16S-10W Ellsworth, KS

PO Box 399
Garden City, KS 67846

White #7-8

Job Ticket: 59428

DST#: 2

ATTN: Jim Musgrove

Test Start: 2014.06.24 @ 04:59:15

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:

19000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	CO	0.273
465.00	GMCOW, 10%G 15%M 25%O 50%W	6.352
945.00	MW w / oil scum on top, 5%M 95%W	12.909
0.00	20' GIP	0.000

Total Length: 1430.00 ft

Total Volume: 19.534 bbl

Num Fluid Samples: 0

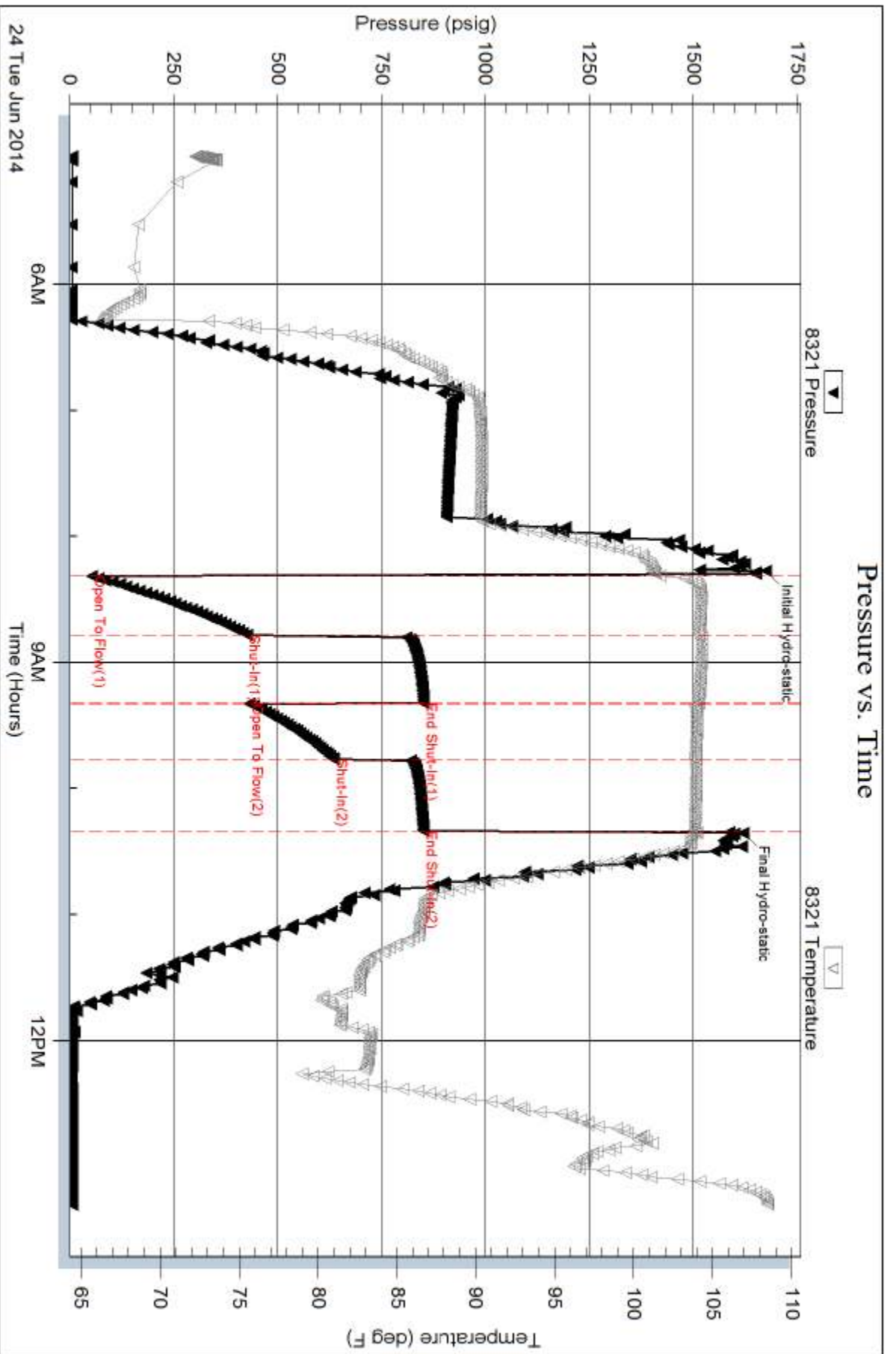
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



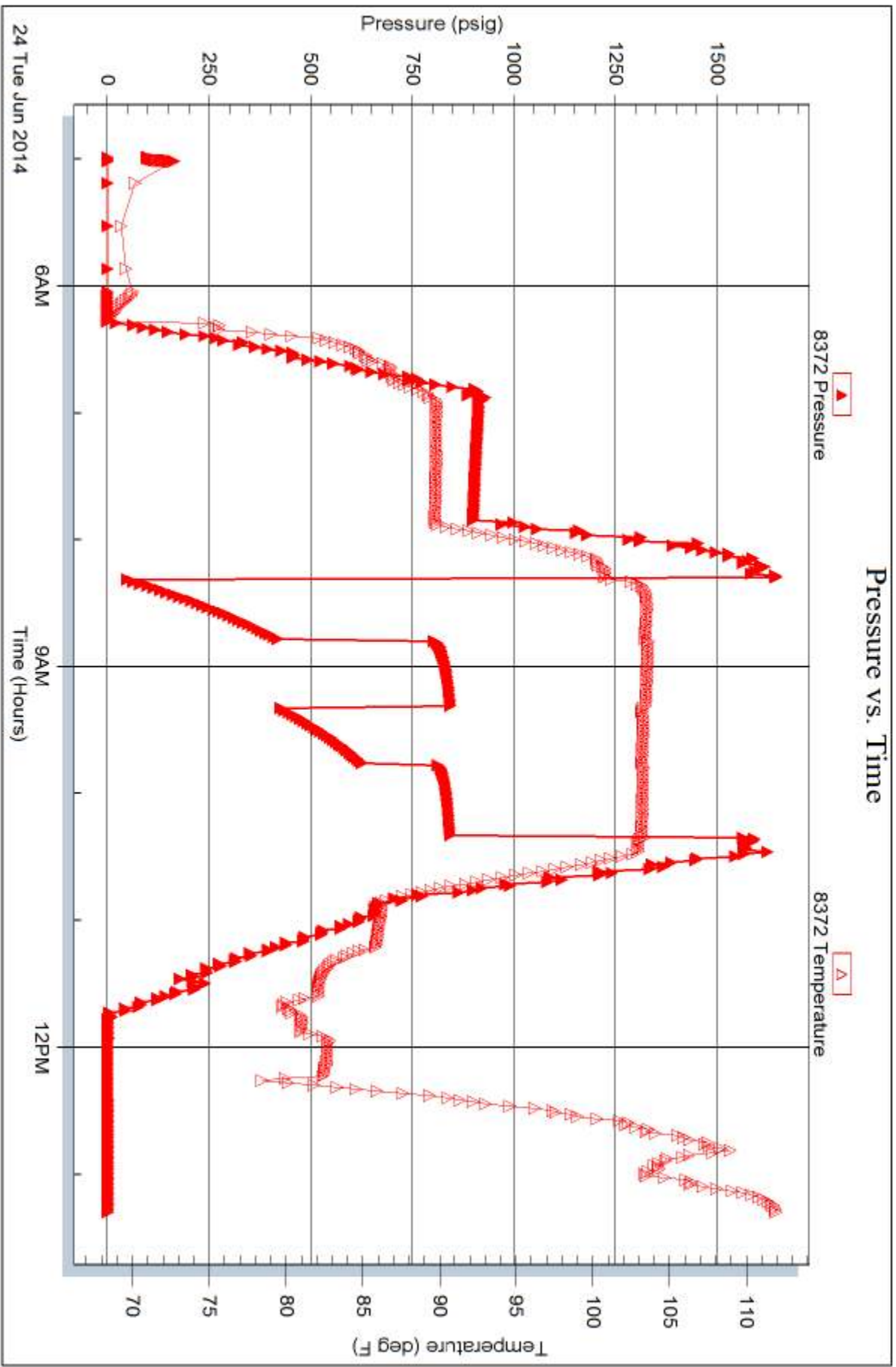
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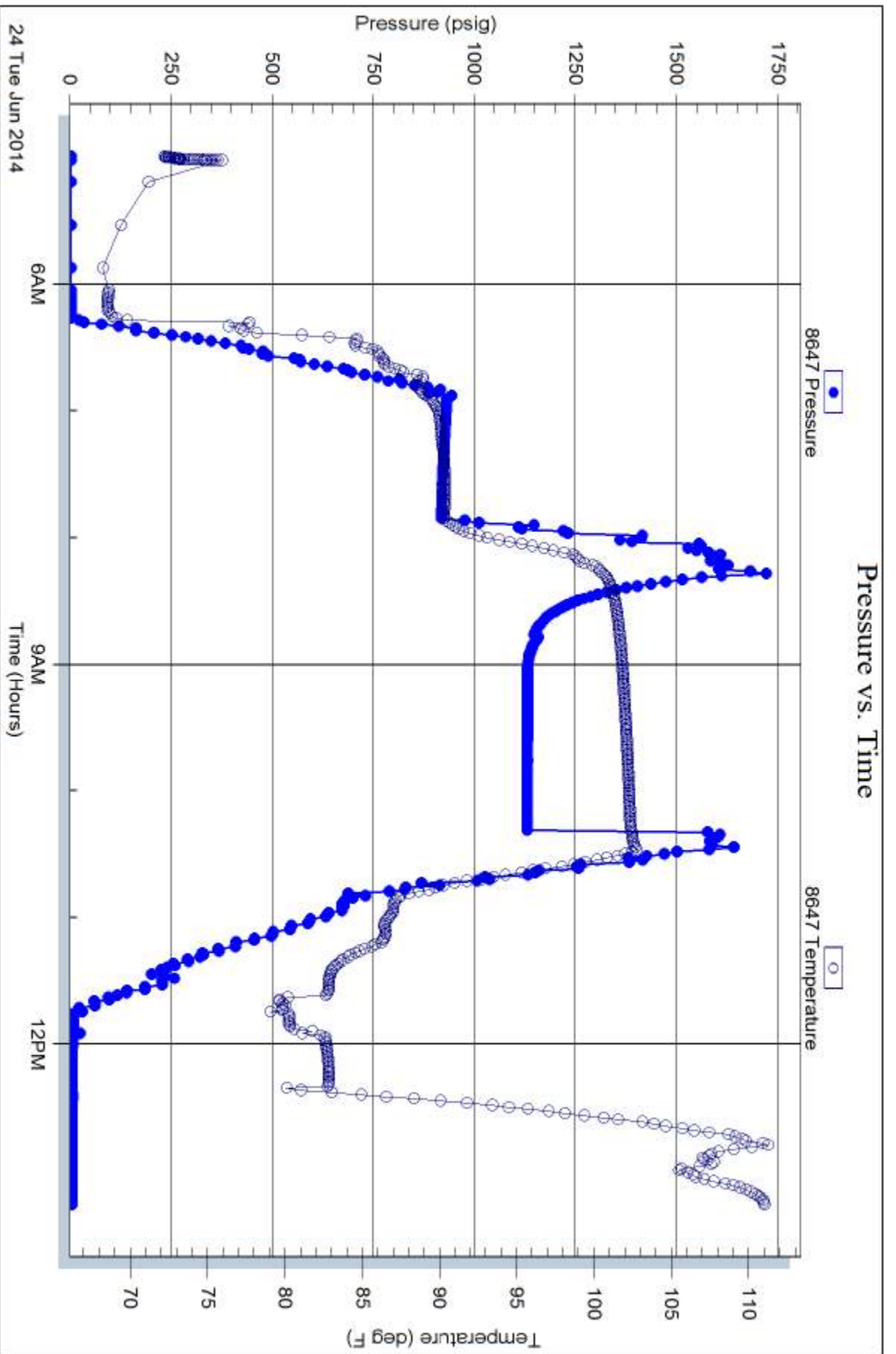
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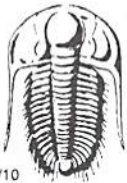
American Warrior, Inc.

White #7-8

DST Test Number: 2







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59427

Well Name & No. White #7-8 Test No. 1 Date 6/23/14
 Company American Warriors, Inc Elevation 1872 KB 1865 GL
 Address 3118 Cummings Rd. PO Box 399 Garden City KS 67846
 Co. Rep / Geo. Tom Musgrove Rig Duke #8
 Location: Sec. 8 Twp. 16S Rge. 10W Co. Ellsworth State KS

Interval Tested 3284-3346 Zone Tested Arbuckle
 Anchor Length 62' Drill Pipe Run 3285 Mud Wt. 9.1
 Top Packer Depth 3279 Drill Collars Run --- Vis 47
 Bottom Packer Depth 3284 Wt. Pipe Run --- WL 10.0
 Total Depth 3346 Chlorides 5000 ppm System LCM Tr

Blow Description IF - BOB 30 secs
FSI - No blow
FF - BOB 2 mins
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>CO</u>	<u>100</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>340</u>	<u>SOCM</u>	<u>5</u>	<u>0</u>	<u>95</u>	<u>0</u>
<u>1575</u>	<u>MW</u>	<u>0</u>	<u>90</u>	<u>10</u>	<u>0</u>

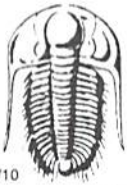
Rec Total 1920 BHT 103° Gravity --- API RW 33 @ 76 ° F Chlorides 23,000 ppm

(A) Initial Hydrostatic 1629 Test 1150 T-On Location 0515
 (B) First Initial Flow 339 Jars _____ T-Started 0531
 (C) First Final Flow 267 Safety Joint _____ T-Open 0838
 (D) Initial Shut-In 832 Circ Sub _____ T-Pulled 1038
 (E) Second Initial Flow 781 Hourly Standby _____ T-Out 1321
 (F) Second Final Flow 835 Mileage 140 RT 217 Comments _____
 (G) Final Shut-In 848 Sampler _____
 (H) Final Hydrostatic 1594 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 30 Sub Total 0
 Initial Shut-In 30 Total 1367
 Final Flow 30 MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1367

Approved By _____ Our Representative Brannan Lonsdale

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. 59428

Well Name & No. White #7-8 Test No. 2 Date 6/24/14
 Company American Warrior, Inc. Elevation 1872 KB 1865 GL
 Address 3118 Cummings Rd, PO Box 399 Garden City, KS 67846
 Co. Rep / Geo. Jim Musgrove Rig Duke #8
 Location: Sec. 8 Twp. 16S Rge. 10W Co. Elkworth State KS

Interval Tested 3324-3338 Zone Tested Airbuckle
 Anchor Length 14' Tail: 111 Drill Pipe Run 3317 Mud Wt. 9.3
 Top Packer Depth 3324 Drill Collars Run --- Vis 56
 Bottom Packer Depth 3338-3343 Wt. Pipe Run --- WL 8.0
 Total Depth 3446 Chlorides 4900 ppm System LCM Tr.
 Blow Description IF-BOB 1min
ISI - No blow
FF-BOB 3mins
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>CO</u>				
<u>465</u>	<u>GMLOW</u>	<u>10%</u>	<u>25%</u>	<u>50%</u>	<u>15%</u>
<u>945</u>	<u>NW, vls cum of oil on top</u>			<u>95%</u>	<u>5%</u>
	<u>20' GIP</u>				

Rec Total 1430 BHT 104° Gravity --- API RW .28 @ 85° F Chlorides 19,000 ppm

(A) Initial Hydrostatic <u>1675</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0430</u>
(B) First Initial Flow <u>54</u>	<input type="checkbox"/> Jars	T-Started <u>0459</u>
(C) First Final Flow <u>426</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0818</u>
(D) Initial Shut-In <u>851</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1018</u>
(E) Second Initial Flow <u>432</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1318</u>
(F) Second Final Flow <u>634</u>	<input checked="" type="checkbox"/> Mileage <u>140 RT 217</u>	Comments
(G) Final Shut-In <u>849</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1620</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1967</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1967</u>	

Approved By _____ Our Representative Brannan Lonsdale
 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.