



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Denise #2-33

33-17s-21w Ness,KS

Start Date: 2015.07.25 @ 14:55:00

End Date: 2015.07.25 @ 23:35:45

Job Ticket #: 64706 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.07.27 @ 08:41:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

33-17s-21w Ness, KS
Denise #2-33
 Job Ticket: 64706 **DST#: 1**
 Test Start: 2015.07.25 @ 14:55:00

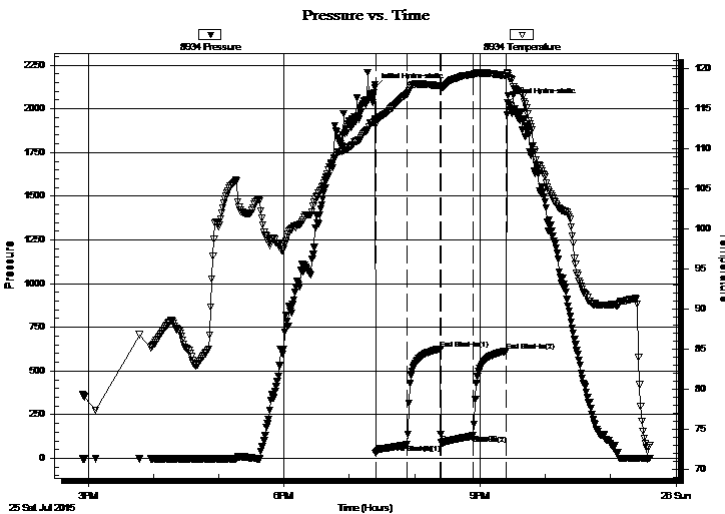
GENERAL INFORMATION:

Formation: **Cherokee A Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:24:00
 Time Test Ended: 23:35:45
 Interval: **4134.00 ft (KB) To 4165.00 ft (KB) (TVD)**
 Total Depth: 4165.00 ft (KB) (TVD)
 Hole Diameter: 7.99 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 81
 Reference Elevations: 2173.00 ft (KB)
 2165.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 130.75 psig @ 4162.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.25 End Date: 2015.07.25 Last Calib.: 2015.07.25
 Start Time: 14:55:05 End Time: 23:35:45 Time On Btm: 2015.07.25 @ 19:23:15
 Time Off Btm: 2015.07.25 @ 21:25:30

TEST COMMENT: IF-BOB in 28 min
 IS-Surface blow
 FF-8in blow
 FS-surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2123.21	113.59	Initial Hydro-static
1	30.29	112.96	Open To Flow (1)
30	80.07	116.84	Shut-In(1)
61	626.27	117.83	End Shut-In(1)
61	88.47	117.56	Open To Flow (2)
91	130.75	119.27	Shut-In(2)
121	614.38	119.10	End Shut-In(2)
123	2034.10	119.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	OS MCW 10%M 90%W	1.41
127.00	VSOWCM 2%O 10%W 88%M	1.78
10.00	SGO 5%G 95%O	0.14
0.00	55ft GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

33-17s-21w Ness,KS

PO Box 399
Garden City KS 67846

Denise #2-33

Job Ticket: 64706

DST#: 1

ATTN: Jason Alm

Test Start: 2015.07.25 @ 14:55:00

Tool Information

Drill Pipe:	Length: 4095.00 ft	Diameter: 3.80 inches	Volume: 57.44 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4134.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	59.00 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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Shut In Tool	5.00			4111.00	
Hydraulic tool	5.00			4116.00	
Jars	5.00			4121.00	
Safety Joint	3.00			4124.00	
Packer	5.00			4129.00	28.00 Bottom Of Top Packer
Packer	5.00			4134.00	
Stubb	1.00			4135.00	
Perforations	27.00			4162.00	
Recorder	0.00	8934	Inside	4162.00	
Recorder	0.00	8736	Outside	4162.00	
Bullnose	3.00			4165.00	31.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

33-17s-21w Ness,KS

PO Box 399
Garden City KS 67846

Denise #2-33

Job Ticket: 64706

DST#: 1

ATTN: Jason Alm

Test Start: 2015.07.25 @ 14:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	OS MCW 10%M 90%W	1.410
127.00	VSOWCM 2%O 10%W 88%M	1.781
10.00	SGO 5%G 95%O	0.140
0.00	55ft GIP	0.000

Total Length: 257.00 ft

Total Volume: 3.331 bbl

Num Fluid Samples: 0

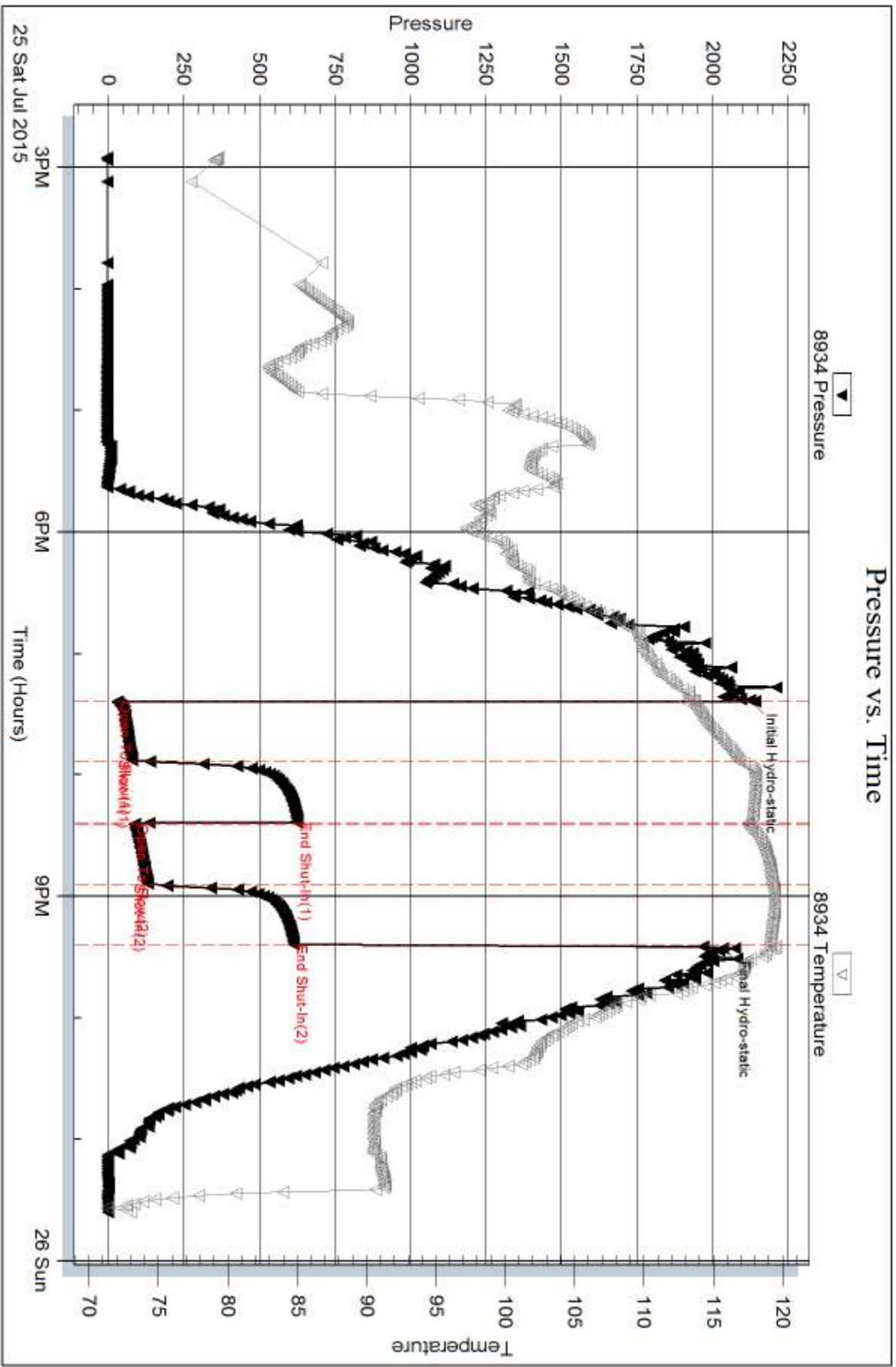
Num Gas Bombs: 0

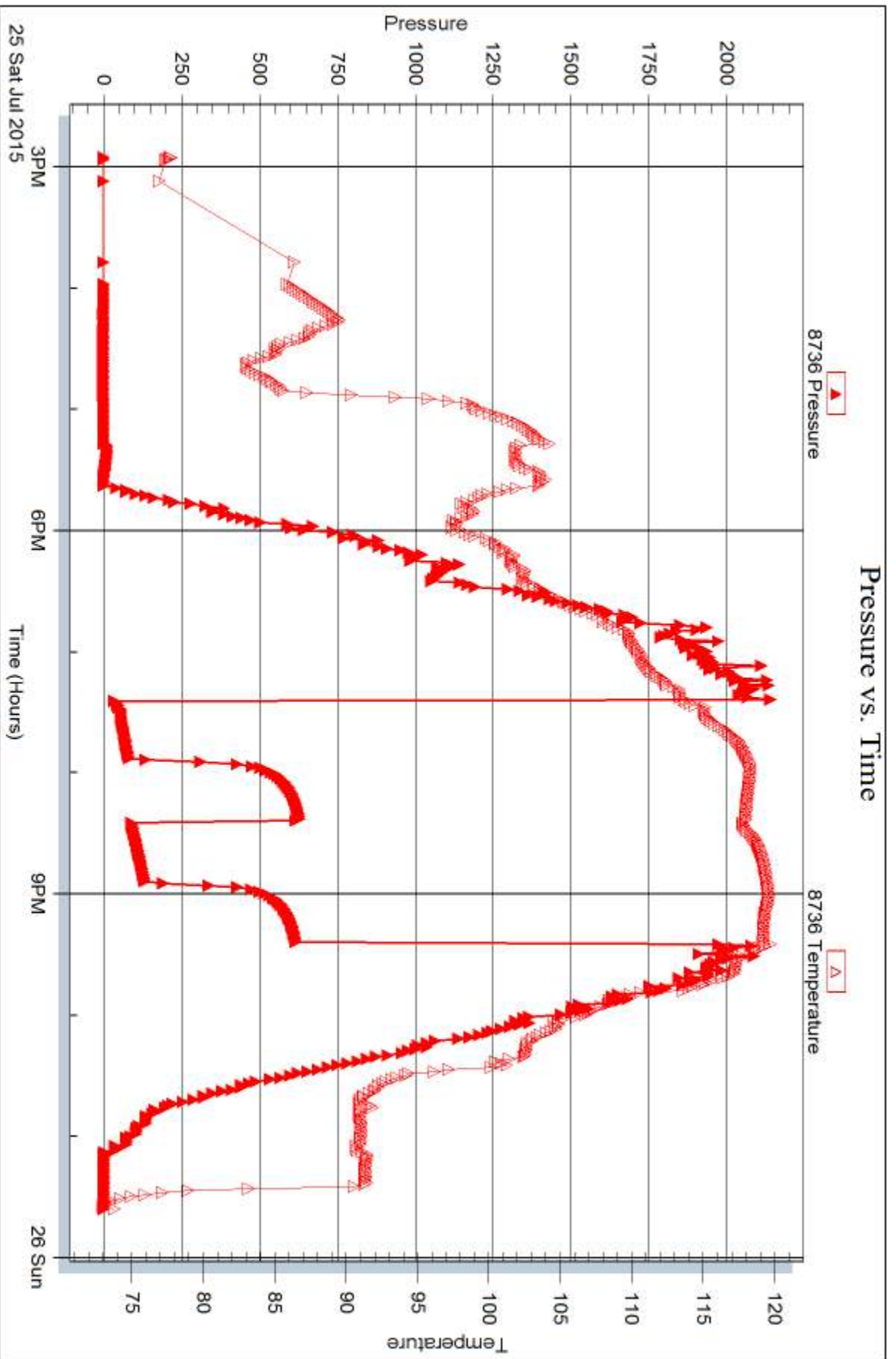
Serial #:

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

Denise #2-33

33-17s-21w Ness,KS

Start Date: 2015.07.26 @ 09:15:00

End Date: 2015.07.26 @ 17:21:45

Job Ticket #: 64707 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.07.27 @ 08:40:38



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

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

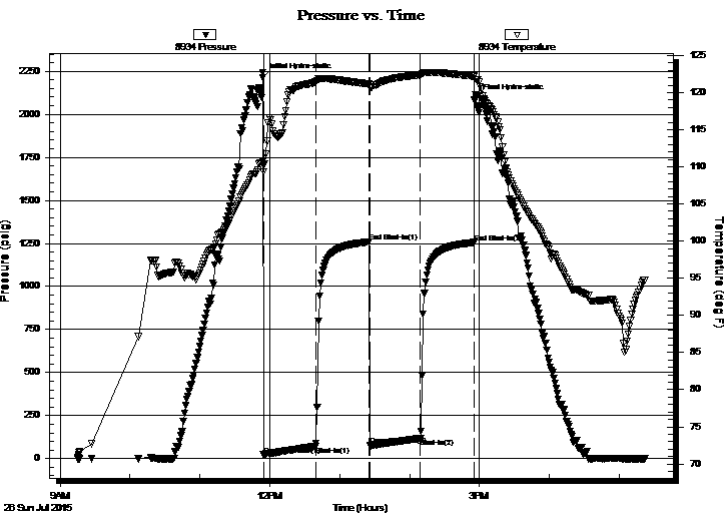
33-17s-21w Ness, KS
Denise #2-33
 Job Ticket: 64707 **DST#: 2**
 Test Start: 2015.07.26 @ 09:15:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:54:30
 Time Test Ended: 17:21:45
 Interval: **4221.00 ft (KB) To 4228.00 ft (KB) (TVD)**
 Total Depth: 4228.00 ft (KB) (TVD)
 Hole Diameter: 7.99 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 81
 Reference Elevations: 2173.00 ft (KB)
 2165.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 118.29 psig @ 4225.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.07.26 End Date: 2015.07.26 Last Calib.: 2015.07.26
 Start Time: 09:15:05 End Time: 17:21:44 Time On Btm: 2015.07.26 @ 11:54:00
 Time Off Btm: 2015.07.26 @ 14:57:00

TEST COMMENT: IF-BOB in 32 min
 IS-Surface blow
 FF-BOB in 45 min
 FS-Surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2213.99	110.64	Initial Hydro-static
1	21.84	109.29	Open To Flow (1)
46	71.27	121.45	Shut-In(1)
92	1258.59	121.14	End Shut-In(1)
92	75.79	120.71	Open To Flow (2)
136	118.29	122.36	Shut-In(2)
182	1255.30	122.20	End Shut-In(2)
183	2093.23	121.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	GO 20%G 80%O	1.13
157.00	OS MCW 25%M 75%W	2.20
0.00	380ft 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.

33-17s-21w Ness,KS

PO Box 399
Garden City KS 67846

Denise #2-33

Job Ticket: 64707

DST#: 2

ATTN: Jason Alm

Test Start: 2015.07.26 @ 09:15:00

Tool Information

Drill Pipe:	Length: 4187.00 ft	Diameter: 3.80 inches	Volume: 58.73 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	4221.00 ft			Final	57000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	7.00 ft				
Tool Length:	35.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4198.00	
Hydraulic tool	5.00			4203.00	
Jars	5.00			4208.00	
Safety Joint	3.00			4211.00	
Packer	5.00			4216.00	28.00 Bottom Of Top Packer
Packer	5.00			4221.00	
Stubb	1.00			4222.00	
Perforations	3.00			4225.00	
Recorder	0.00	8934	Inside	4225.00	
Recorder	0.00	8736	Outside	4225.00	
Bullnose	3.00			4228.00	7.00 Bottom Packers & Anchor

Total Tool Length: 35.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

33-17s-21w Ness,KS

PO Box 399
Garden City KS 67846

Denise #2-33

Job Ticket: 64707

DST#: 2

ATTN: Jason Alm

Test Start: 2015.07.26 @ 09:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3800.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
100.00	GO 20%G 80%O	1.129
157.00	OS MCW 25%M 75%W	2.202
0.00	380ft GIP	0.000

Total Length: 257.00 ft Total Volume: 3.331 bbl

Num Fluid Samples: 0

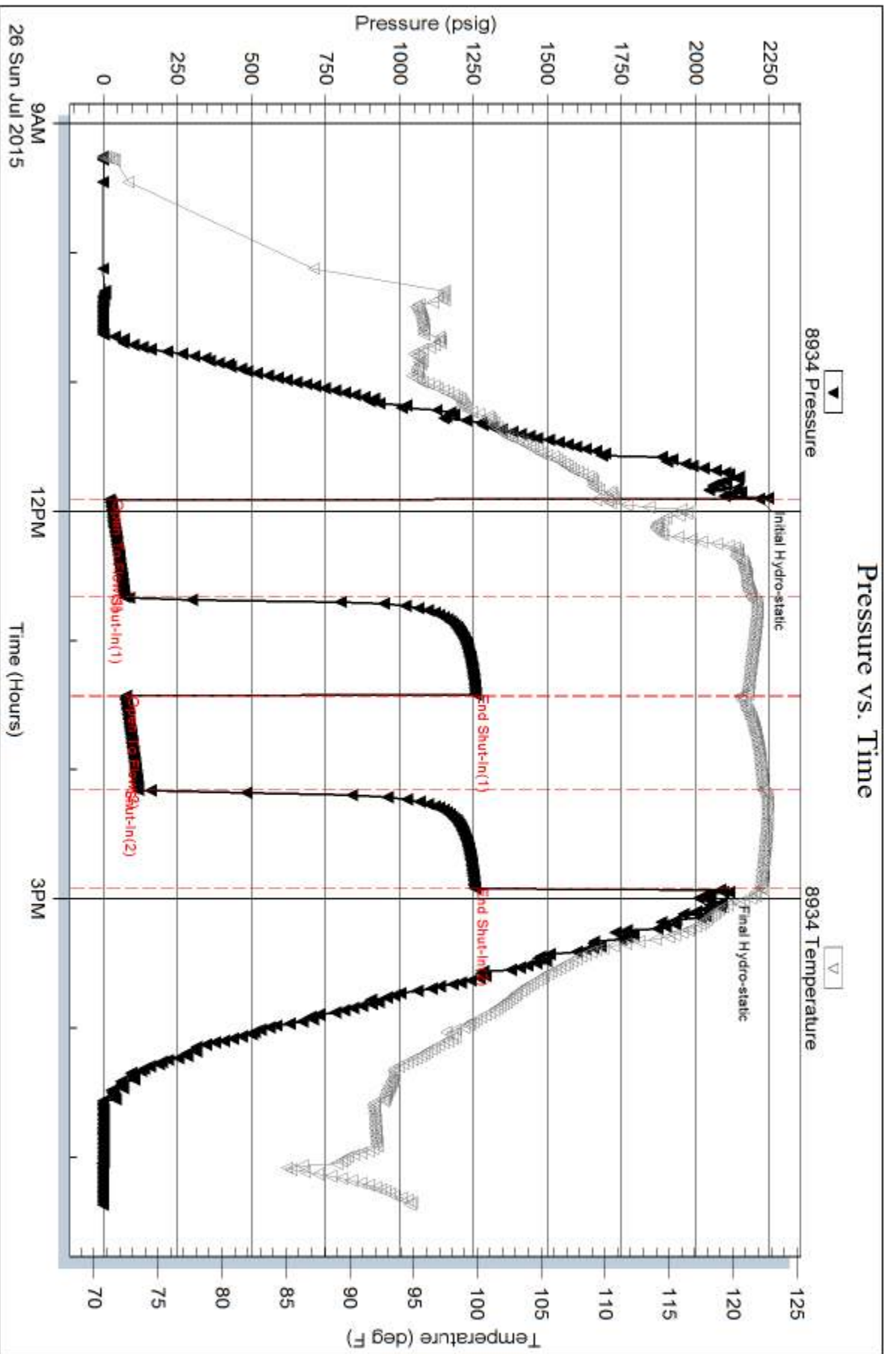
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

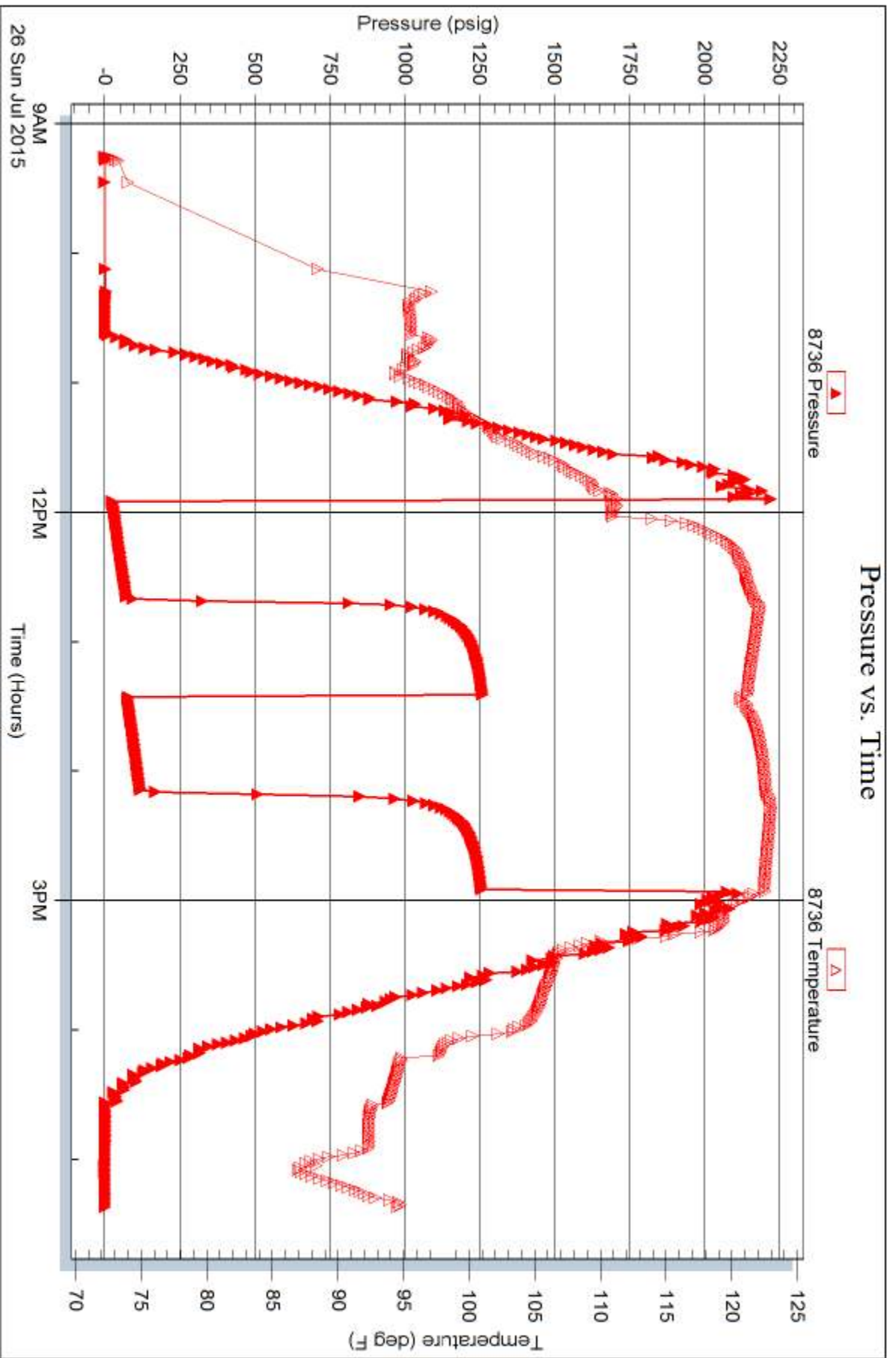


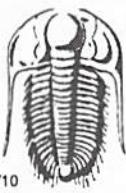
Serial #: 8736

Outside American Warrior Inc.

Denise #2-33

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64706**

Well Name & No. Denise #2-33 Test No. 1 Date 7/25/15
 Company American Warrior, Inc. Elevation 2173 KB 2165 GL
 Address PO BOX 399 Garden City KS 67846
 Co. Rep / Geo. Jason T Alm Rig Discovery #3
 Location: Sec. 33 Twp. 17s Rge. 21w Co. Ness State KS

Interval Tested 34134-4165 Zone Tested cher "A" sd.
 Anchor Length 31 Drill Pipe Run _____ Mud Wt. 9.5
 Top Packer Depth ~~4131~~ 4129 Drill Collars Run 30 Vis 53
 Bottom Packer Depth ~~4136~~ 4134 Wt. Pipe Run _____ WL 8.0
 Total Depth 4165 Chlorides 3,800 ppm System LCM 1#
 Blow Description IF-BOB in
ISI- surface blow
FF- 8in blow
FSF- surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>OS MCW</u>		<u>10</u>	<u>90</u>	
<u>127</u>	<u>VSOWCM</u>	<u>2</u>	<u>10</u>	<u>88</u>	
<u>10</u>	<u>SGO</u>	<u>5</u>	<u>95</u>		
	<u>55ft GIP</u>				

Rec Total 257 BHT 119 Gravity 35 API RW .2 @ 70 °F Chlorides 34000 ppm

(A) Initial Hydrostatic <u>2,123</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>14:00</u>
(B) First Initial Flow <u>30</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>14:55</u>
(C) First Final Flow <u>80</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>19:22</u>
(D) Initial Shut-In <u>626</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>21:22</u>
(E) Second Initial Flow <u>88</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>23:40</u>
(F) Second Final Flow <u>131</u>	<input checked="" type="checkbox"/> Mileage <u>106.7</u>	Comments _____
(G) Final Shut-In <u>614</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>2,034</u>	<input type="checkbox"/> Straddle _____	_____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1581</u>
	Sub Total <u>1581</u>	MP/DST Disc't _____

Approved By _____ Our Representative But. Dow

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. **64707**

Well Name & No. Denise #2-33 Test No. 2 Date 7/26/15
 Company American Warrior, Inc. Elevation 2173 KB 2165 GL
 Address PO Box 399 Garden City KS 67846
 Co. Rep / Geo. Jason Alm Rig Discovery #3
 Location: Sec. 33 Twp. 17s Rge. 21w Co. Ness State KS

Interval Tested 4221-4228 Zone Tested Miss
 Anchor Length 7 Drill Pipe Run - Mud Wt. _____
 Top Packer Depth 4216 Drill Collars Run 30 Vis _____
 Bottom Packer Depth 4221 Wt. Pipe Run - WL _____
 Total Depth 4228 Chlorides _____ ppm System LCM _____
 Blow Description IF - BOB in 32 min
FSI - Surface blow
FF - BOB in 45 min
FSI - Surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>100</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>157</u>	<u>OS MCW</u>			<u>75</u>	<u>25</u>
	<u>380ft GDP</u>				

Rec Total 257 BHT 122 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2214</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>8:50</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:15</u>
(C) First Final Flow <u>71</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:50</u>
(D) Initial Shut-In <u>1,259</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:50</u>
(E) Second Initial Flow <u>76</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:20</u>
(F) Second Final Flow <u>118</u>	<input checked="" type="checkbox"/> Mileage <u>106</u>	Comments _____
(G) Final Shut-In <u>1,255</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2,093</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1581</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1581</u>	

Approved By _____ Our Representative Burst

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.