



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Marlin #1-32

32-18s-21w Ness,KS

Start Date: 2014.09.13 @ 18:03:00

End Date: 2014.09.14 @ 01:24:15

Job Ticket #: 59349 DST #: 1

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

Printed: 2014.09.17 @ 10:57:35



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

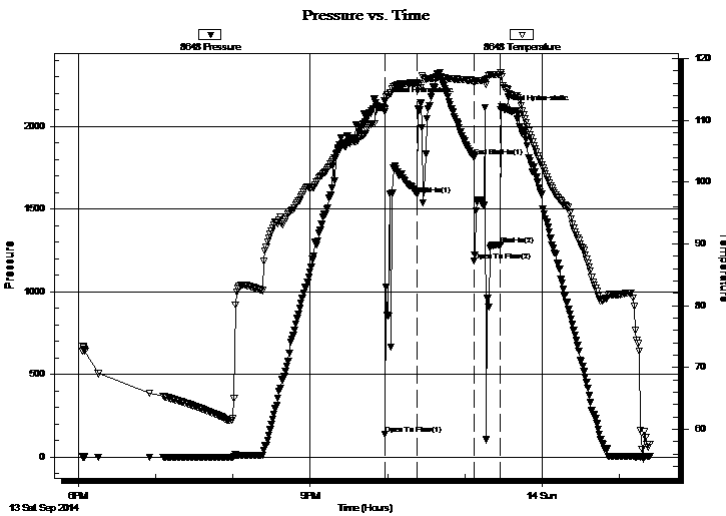
32-18s-21w Ness, KS
Marlin #1-32
Job Ticket: 59349 **DST#: 1**
Test Start: 2014.09.13 @ 18:03:00

GENERAL INFORMATION:

Formation: **Miss**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:58:15
Time Test Ended: 01:24:15
Interval: **4248.00 ft (KB) To 4258.00 ft (KB) (TVD)**
Total Depth: 4258.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 73
Reference Elevations: 2159.00 ft (KB)
2151.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8648 Inside
Press@RunDepth: 1587.09 psig @ 4249.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.13 End Date: 2014.09.14 Last Calib.: 2014.09.14
Start Time: 18:03:05 End Time: 01:24:14 Time On Btm: 2014.09.13 @ 21:58:00
Time Off Btm: 2014.09.13 @ 23:28:00

TEST COMMENT: 40 - IF- 1 1/2" blow , dying, flushed tool at 30 min. Surging for 5 minutes, dying off. shut in at 40 minutes
30 - IS- No return
20 - FF- surged and died, flushed tool after 10 minutes, surged for 5 minutes and died. Pulled tool at 20 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2149.15	111.88	Initial Hydro-static
1	137.73	111.38	Open To Flow (1)
25	1587.09	116.00	Shut-In(1)
69	1813.85	116.45	End Shut-In(1)
70	1187.87	116.10	Open To Flow (2)
90	1284.74	117.41	Shut-In(2)
90	2101.70	117.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	Mud, 100%M	0.61

Gas Rates

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



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DRILL STEM TEST REPORT

TOOL DIAGRAM

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

32-18s-21w Ness, KS
Marlin #1-32
Job Ticket: 59349 **DST#: 1**
Test Start: 2014.09.13 @ 18:03:00

Tool Information

Drill Pipe:	Length: 4216.00 ft	Diameter: 3.80 inches	Volume: 59.14 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: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 59.29 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4248.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	10.00 ft			
Tool Length:	38.00 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			4221.00	
Shut In Tool	5.00			4226.00	
Hydraulic tool	5.00			4231.00	
Jars	5.00			4236.00	
Safety Joint	3.00			4239.00	
Packer	5.00			4244.00	28.00 Bottom Of Top Packer
Packer	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8648	Inside	4249.00	
Recorder	0.00	8940	Outside	4249.00	
Perforations	6.00			4255.00	
Bullnose	3.00			4258.00	10.00 Bottom Packers & Anchor

Total Tool Length: 38.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

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

32-18s-21w Ness,KS
Marlin #1-32
Job Ticket: 59349 **DST#: 1**
Test Start: 2014.09.13 @ 18:03:00

Mud and Cushion Information

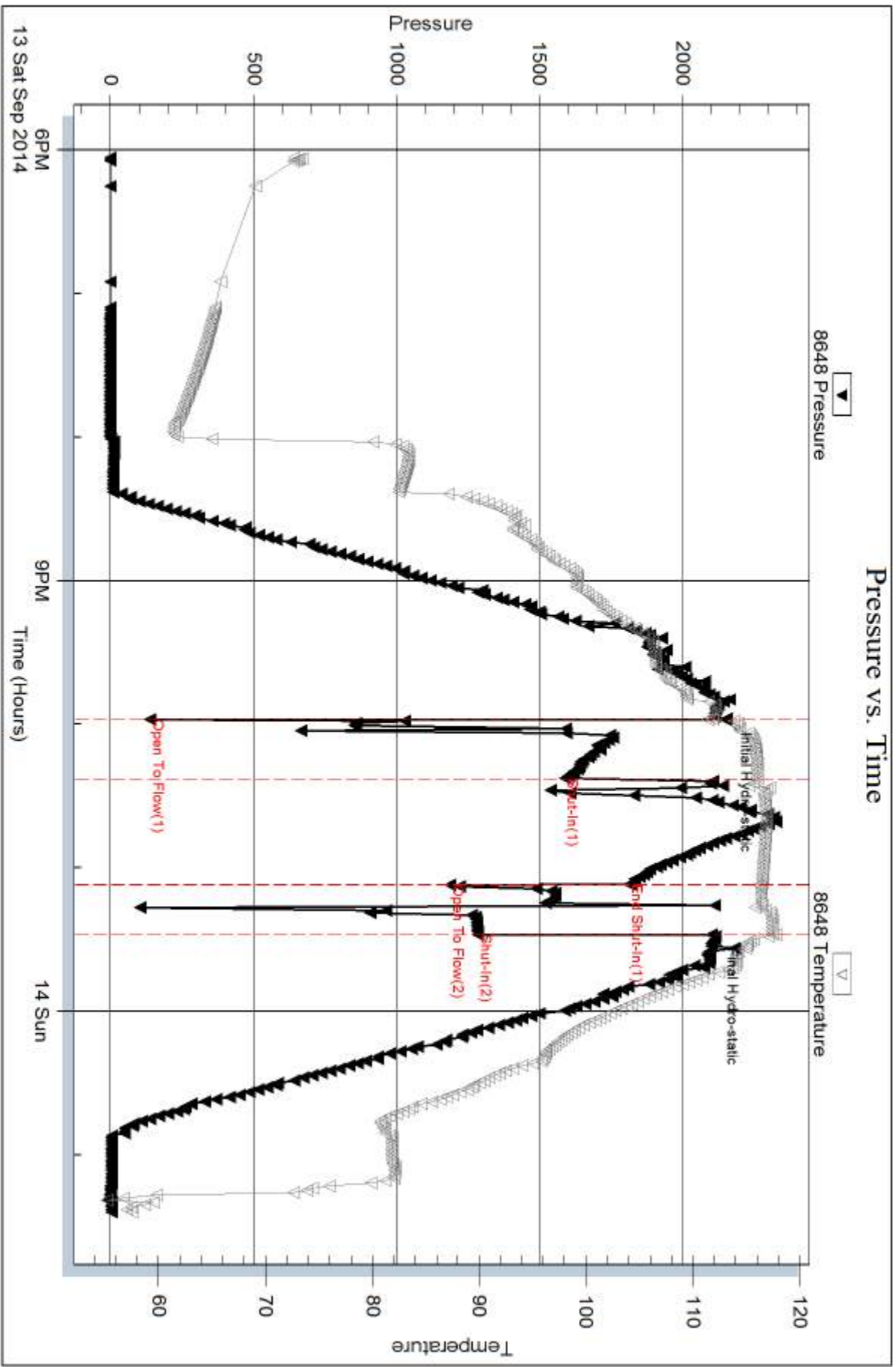
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	Mud, 100%M	0.610

Total Length: 63.00 ft Total Volume: 0.610 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

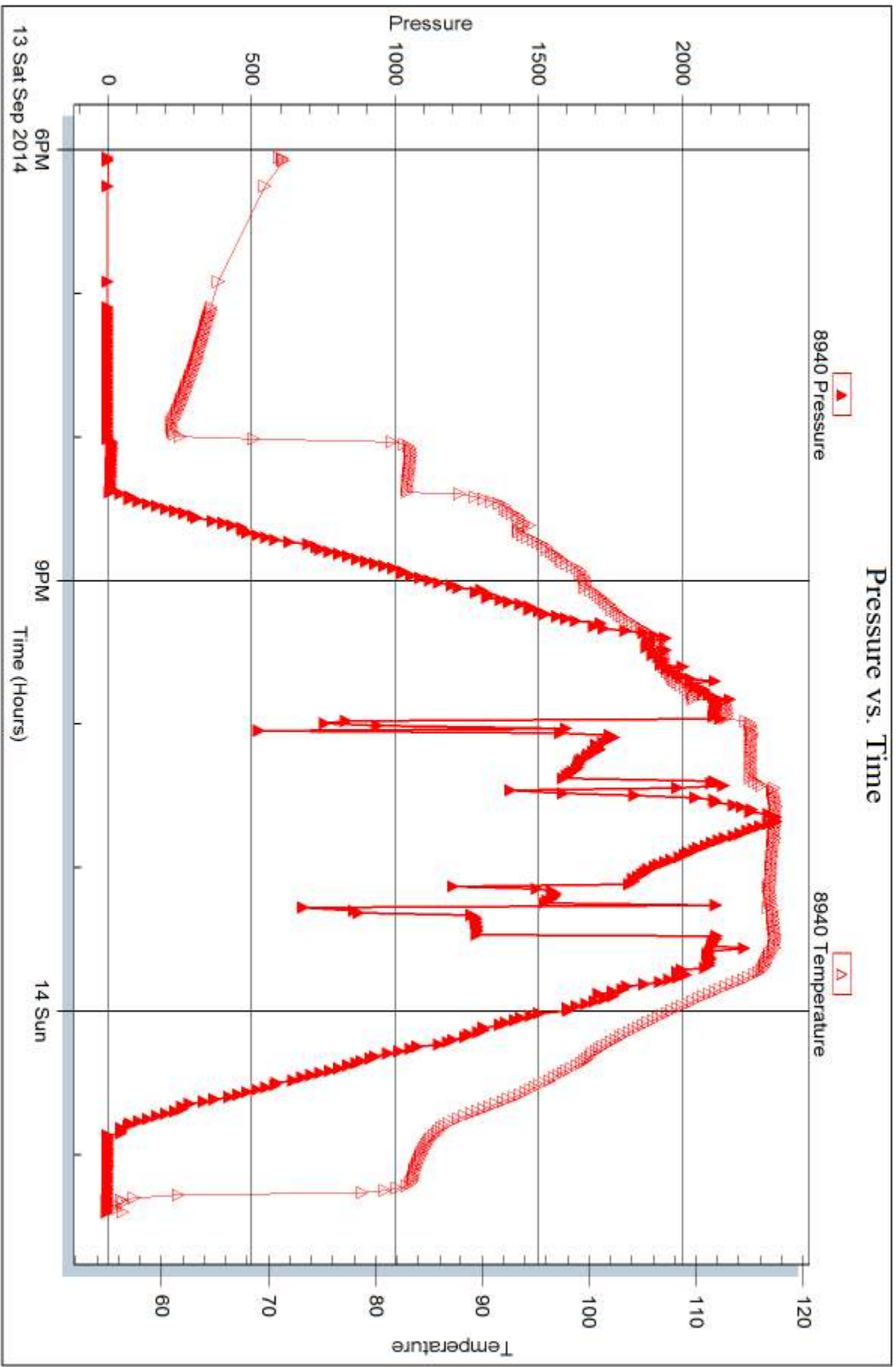


Serial #: 8940

Outside American Warrior Inc

Marlin #1-32

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 59349

Printed: 2014.09.17 @ 10:57:37



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Marlin #1-32

32-18s-21w Ness,KS

Start Date: 2014.09.14 @ 06:34:00

End Date: 2014.09.14 @ 12:39:30

Job Ticket #: 59350 DST #: 2

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

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**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

32-18s-21w Ness, KS

Marlin #1-32

Job Ticket: 59350

DST#: 2

Test Start: 2014.09.14 @ 06:34:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:26:45

Time Test Ended: 12:39:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: 4249.00 ft (KB) To 4260.00 ft (KB) (TVD)

Reference Elevations: 2159.00 ft (KB)

Total Depth: 4260.00 ft (KB) (TVD)

2151.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8648

Inside

Press@RunDepth: 123.32 psig @ 4250.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.14

End Date:

2014.09.14

Last Calib.:

2014.09.14

Start Time: 06:34:05

End Time:

12:39:29

Time On Btm:

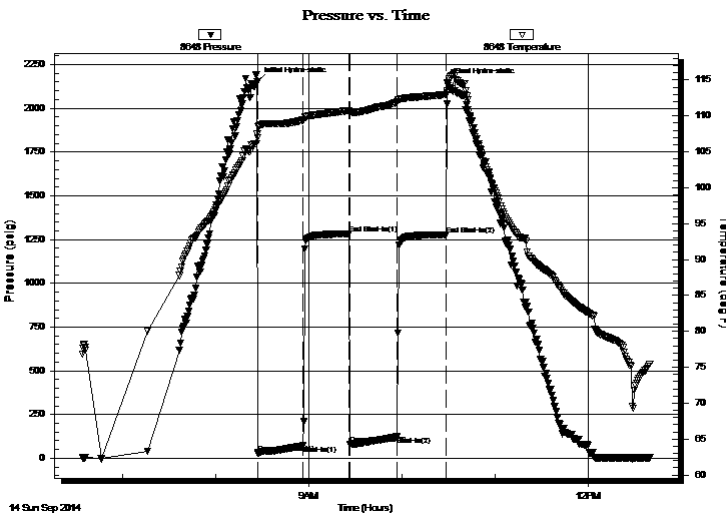
2014.09.14 @ 08:26:30

Time Off Btm:

2014.09.14 @ 10:29:00

TEST COMMENT: 30 - IF- B.O.B. in 14 minutes
30 - IS- 1/2" blow
30 - FF- B.O.B. in 21 minutes
30 - FS- Surface return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.39	107.43	Initial Hydro-static
1	28.33	106.94	Open To Flow (1)
30	73.43	109.42	Shut-In(1)
60	1283.18	110.76	End Shut-In(1)
60	79.98	110.35	Open To Flow (2)
90	123.32	111.92	Shut-In(2)
122	1279.04	112.96	End Shut-In(2)
123	2147.74	113.52	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GSOCM, 10%O, 20%G, 70%M	0.60
217.00	GO, 40%G, 60%O	3.04

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

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

32-18s-21w Ness,KS
Marlin #1-32
Job Ticket: 59350 **DST#: 2**
Test Start: 2014.09.14 @ 06:34:00

Tool Information

Drill Pipe:	Length: 4215.00 ft	Diameter: 3.80 inches	Volume: 59.13 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: 30000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 59.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4249.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 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			4222.00	
Shut In Tool	5.00			4227.00	
Hydraulic tool	5.00			4232.00	
Jars	5.00			4237.00	
Safety Joint	3.00			4240.00	
Packer	5.00			4245.00	28.00 Bottom Of Top Packer
Packer	4.00			4249.00	
Stubb	1.00			4250.00	
Recorder	0.00	8648	Inside	4250.00	
Recorder	0.00	8940	Outside	4250.00	
Perforations	7.00			4257.00	
Bullnose	3.00			4260.00	11.00 Bottom Packers & Anchor

Total Tool Length: 39.00



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FLUID SUMMARY

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

32-18s-21w Ness,KS
Marlin #1-32
Job Ticket: 59350 **DST#: 2**
Test Start: 2014.09.14 @ 06:34:00

Mud and Cushion Information

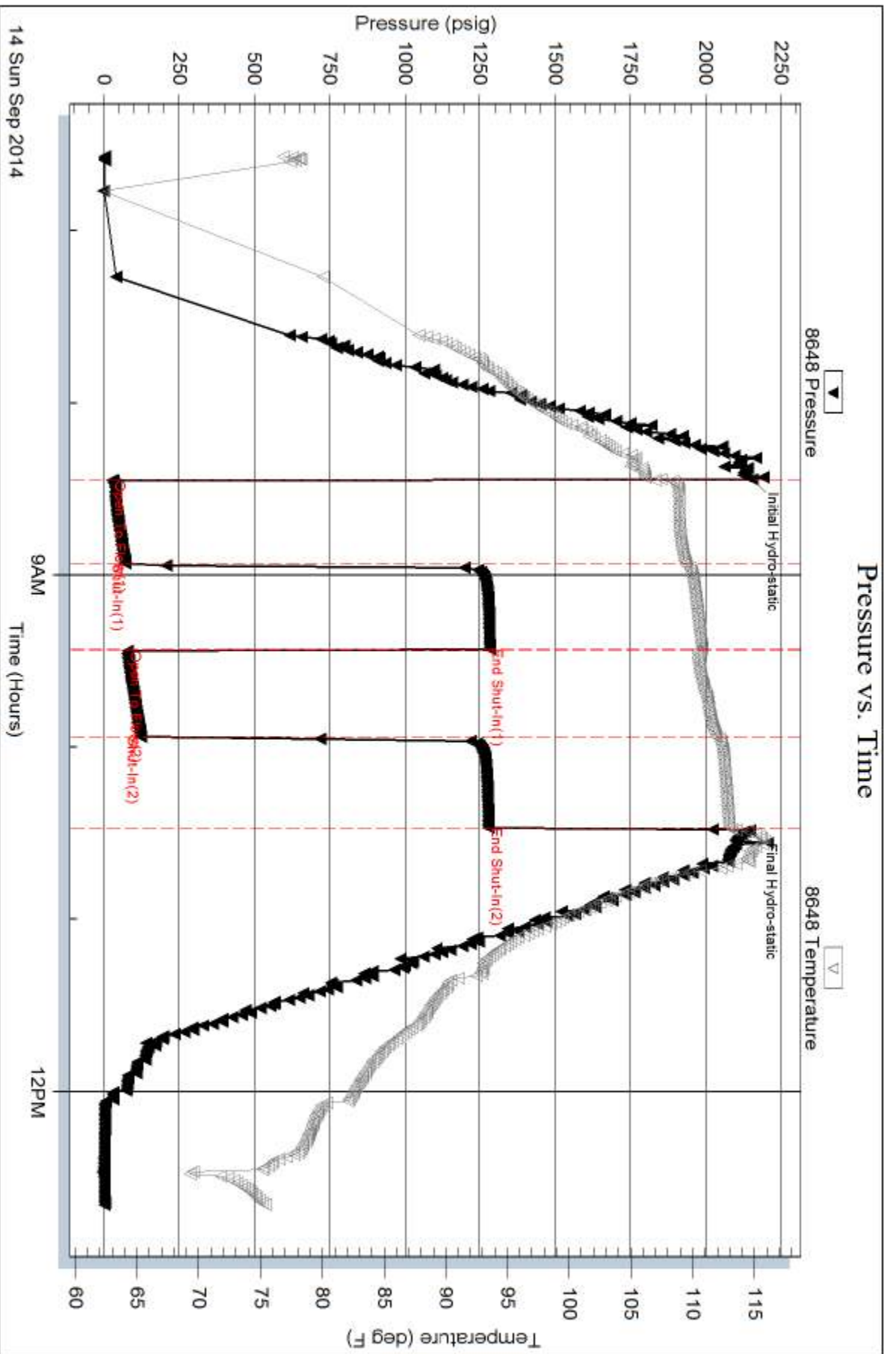
Mud Type: Gel Chem	Cushion Type:	Oil API: 40 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 3600.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GSOCM, 10%O, 20%G, 70%M	0.596
217.00	GO, 40%G, 60%O	3.044

Total Length: 279.00 ft Total Volume: 3.640 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Gravity: 42 @ 80 Degrees = 40

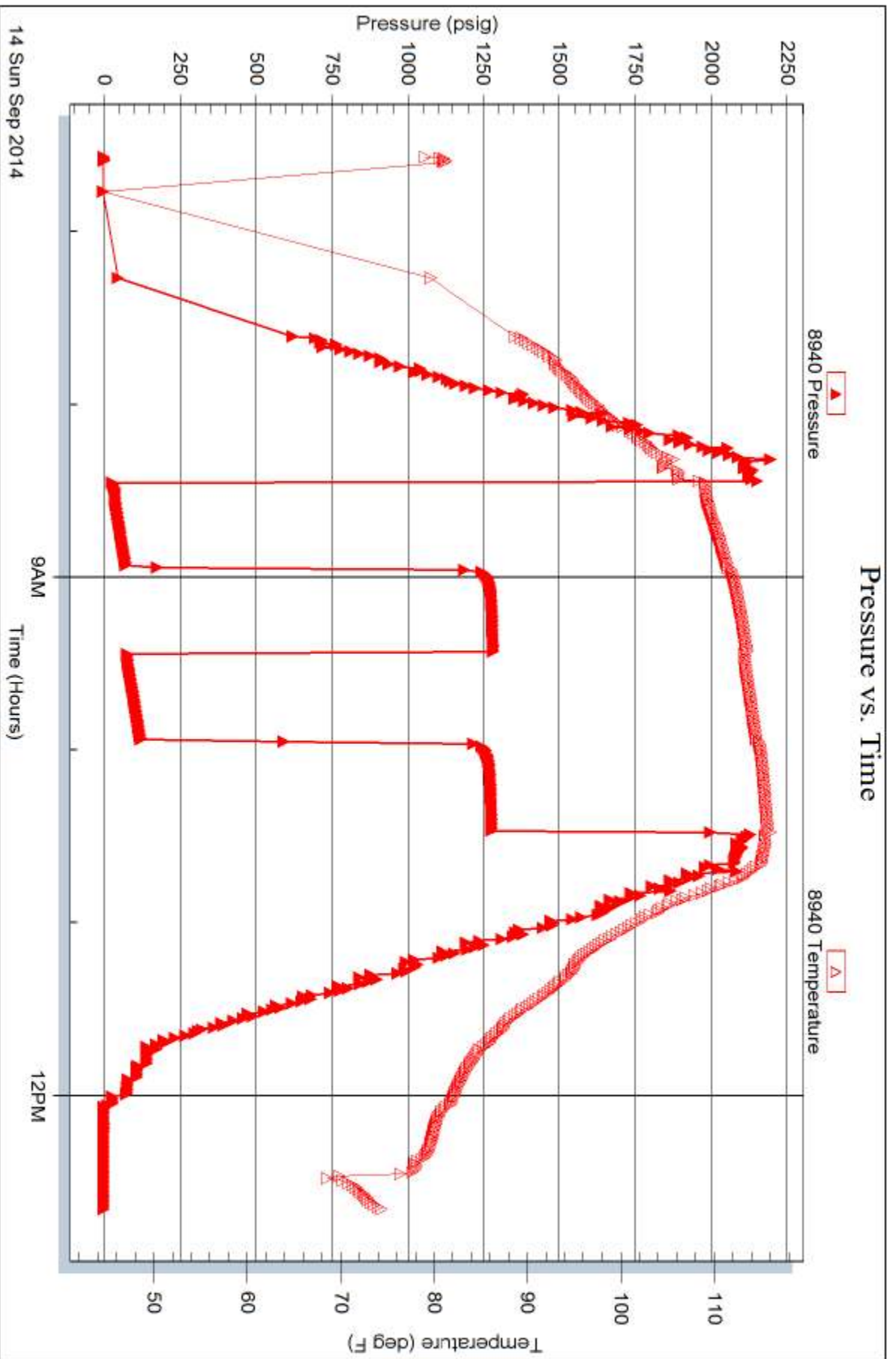


Serial #: 8940

Outside American Warrior Inc

Marlin #1-32

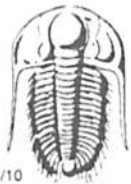
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 59350

Printed: 2014.09.17 @ 10:55:29



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 59349

Well Name & No. Marlin # 1-32 Test No. 1 Date 9-13-14
 Company American Warrior Inc Elevation 2159 KB 2151 GL
 Address Po Box 399, Garden City KS, 67846
 Co. Rep / Geo. Jason Alm Rig Discovery #3
 Location: Sec. 32 Twp. 18E Rge. 21W Co. Ness State KS

Interval Tested 4248-4258 Zone Tested Miss
 Anchor Length 10' Drill Pipe Run 4216 Mud Wt. 9.4
 Top Packer Depth 4243 Drill Collars Run 30 Vis 50
 Bottom Packer Depth 4248 Wt. Pipe Run — WL 8.8
 Total Depth 4258 Chlorides 3600 ppm System LCM 1-

Blow Description IF- slid 10', 1 1/2" blow, dying. Flushed tool @ 30 min. Surging shut in @ 40 min.
ISI- No return
FF- surged & died, Flushed tool @ 10 min. Surged for 5 min. & died. Pulled tool @ 20 minutes
FSI-

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</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 <u>65</u>	Feet of	%gas	%oil	%water	%mud

Rec Total 63' BHT 117° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2149</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>1742</u>
(B) First Initial Flow <u>137</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1803</u>
(C) First Final Flow <u>1587</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2157</u>
(D) Initial Shut-In <u>1813</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>2337</u>
(E) Second Initial Flow <u>1887</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0124</u>
(F) Second Final Flow <u>1284</u>	<input checked="" type="checkbox"/> Mileage <u>120RT</u> 186	Comments <u>slid 10'</u>
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2101</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>40</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>20 Pull</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In	<input type="checkbox"/> Day Standby	Total <u>1561</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1561</u>	

Approved By _____ Our Representative Cody Bloodorn

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. **59350**

Well Name & No. Marlin # 1-32 Test No. 2 Date 9-14-14
 Company American Warrior Inc Elevation 2159 KB 2151
 Address Po Box 399, Garden City ks, 67846
 Co. Rep / Geo. Jason Alm Rig Discovery # 3
 Location: Sec. 32 Twp. 18S Rge. 2/W Co. Ness State KS

Interval Tested 4249-4260 Zone Tested Miss
 Anchor Length 11' Drill Pipe Run 4215' Mud Wt. 9.4
 Top Packer Depth 4244 Drill Collars Run 30' Vis 50
 Bottom Packer Depth 4249 Wt. Pipe Run — WL 8.8
 Total Depth 4260 Chlorides 3600 ppm System LCM 1

Blow Description IF- B.O.B. in 14 minutes
ISF- 1/2" blow
FF- B.O.B. in 21 minutes
FSI- Surface return

Rec <u>62</u>	Feet of <u>6500M</u>	<u>20%</u> gas	<u>10%</u> oil	%water	<u>70</u> %
Rec <u>217</u>	Feet of <u>60</u>	<u>40%</u> gas	<u>60%</u> oil	%water	%
Rec	Feet of	%gas	%oil	%water	%
Rec	Feet of <u>248</u>	<u>G.I.P.</u>			
Rec	Feet of	%gas	%oil	%water	%

Rec Total 279' BHT 112° Gravity 40 API RW — @ — ° F Chlorides —
 (A) Initial Hydrostatic 2154 Test 1250 T-On Location 0625
 (B) First Initial Flow 28 Jars 250 T-Started 0634
 (C) First Final Flow 73 Safety Joint 75 T-Open 0827
 (D) Initial Shut-In 1283 Circ Sub — T-Pulled 1027
 (E) Second Initial Flow 79 Hourly Standby — T-Out 1239
 (F) Second Final Flow 123 Mileage 120RT 186 Comments 42@80° = 40
 (G) Final Shut-In 1279 Sampler — Gra
 (H) Final Hydrostatic 2147 Straddle —
 Ruined Shale Packer —
 Ruined Packer —
 Extra Copies —

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Extra Recorder — Sub Total 0
 Day Standby — Total 1761
 Accessibility 1761 MP/DST Disc't —
 Sub Total —

Approved By _____ Our Representative Cody B

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 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.