



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Anslover #1-20

20-18s-21w Ness,KS

Start Date: 2014.06.14 @ 04:25:00

End Date: 2014.06.14 @ 12:04:30

Job Ticket #: 54058 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.06.18 @ 13:09:38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc
PO Box 399
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ATTN: Jason Alm

20-18s-21w Ness, KS

Anslover #1-20

Job Ticket: 54058

DST#: 1

Test Start: 2014.06.14 @ 04:25:00

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:42:15

Time Test Ended: 12:04:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: 4276.00 ft (KB) To 4284.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 4284.00 ft (KB) (TVD)

2174.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8648

Inside

Press@RunDepth: 36.96 psig @ 4281.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.14

End Date:

2014.06.14

Last Calib.:

2014.06.14

Start Time: 04:25:05

End Time:

12:04:29

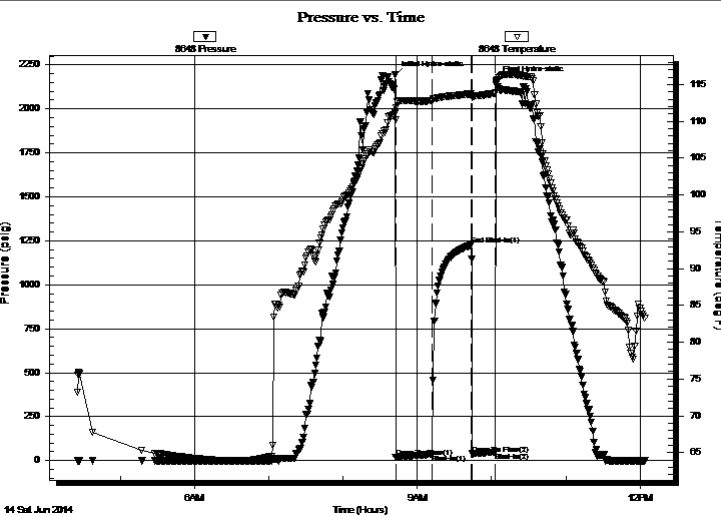
Time On Btm:

2014.06.14 @ 08:42:00

Time Off Btm:

2014.06.14 @ 10:03:30

TEST COMMENT: 30 - IF- 1/4" blow
30 - IS- No return
20 - FF- Surface blow for 20 minutes ****Pulled Tool*****



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2191.76	111.21	Initial Hydro-static
1	17.31	110.18	Open To Flow (1)
30	36.96	112.80	Shut-In(1)
62	1227.58	113.73	End Shut-In(1)
62	38.31	113.27	Open To Flow (2)
81	49.24	113.81	Shut-In(2)
82	2158.97	115.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	MW - Oil scum, 50%M, 50%W	0.15
60.00	MW - Oil spots, 30%M, 70%W	0.30

Gas Rates

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



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TOOL DIAGRAM

American Warrior Inc
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20-18s-21w Ness,KS
Anslover #1-20
Job Ticket: 54058 **DST#: 1**
Test Start: 2014.06.14 @ 04:25:00

Tool Information

Drill Pipe:	Length: 4156.00 ft	Diameter: 3.80 inches	Volume: 58.30 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 70000.00 lb
		Total Volume: 58.89 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4276.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	37.00 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			4248.00	
Shut In Tool	5.00			4253.00	
Hydraulic tool	5.00			4258.00	
Jars	5.00			4263.00	
Safety Joint	3.00			4266.00	
Packer	5.00			4271.00	29.00 Bottom Of Top Packer
Packer	5.00			4276.00	
Perforations	5.00			4281.00	
Recorder	0.00	8648	Inside	4281.00	
Recorder	0.00	8940	Outside	4281.00	
Bullnose	3.00			4284.00	8.00 Bottom Packers & Anchor

Total Tool Length: 37.00



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FLUID SUMMARY

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

20-18s-21w Ness,KS
Anslover #1-20
Job Ticket: 54058 **DST#: 1**
Test Start: 2014.06.14 @ 04:25:00

Mud and Cushion Information

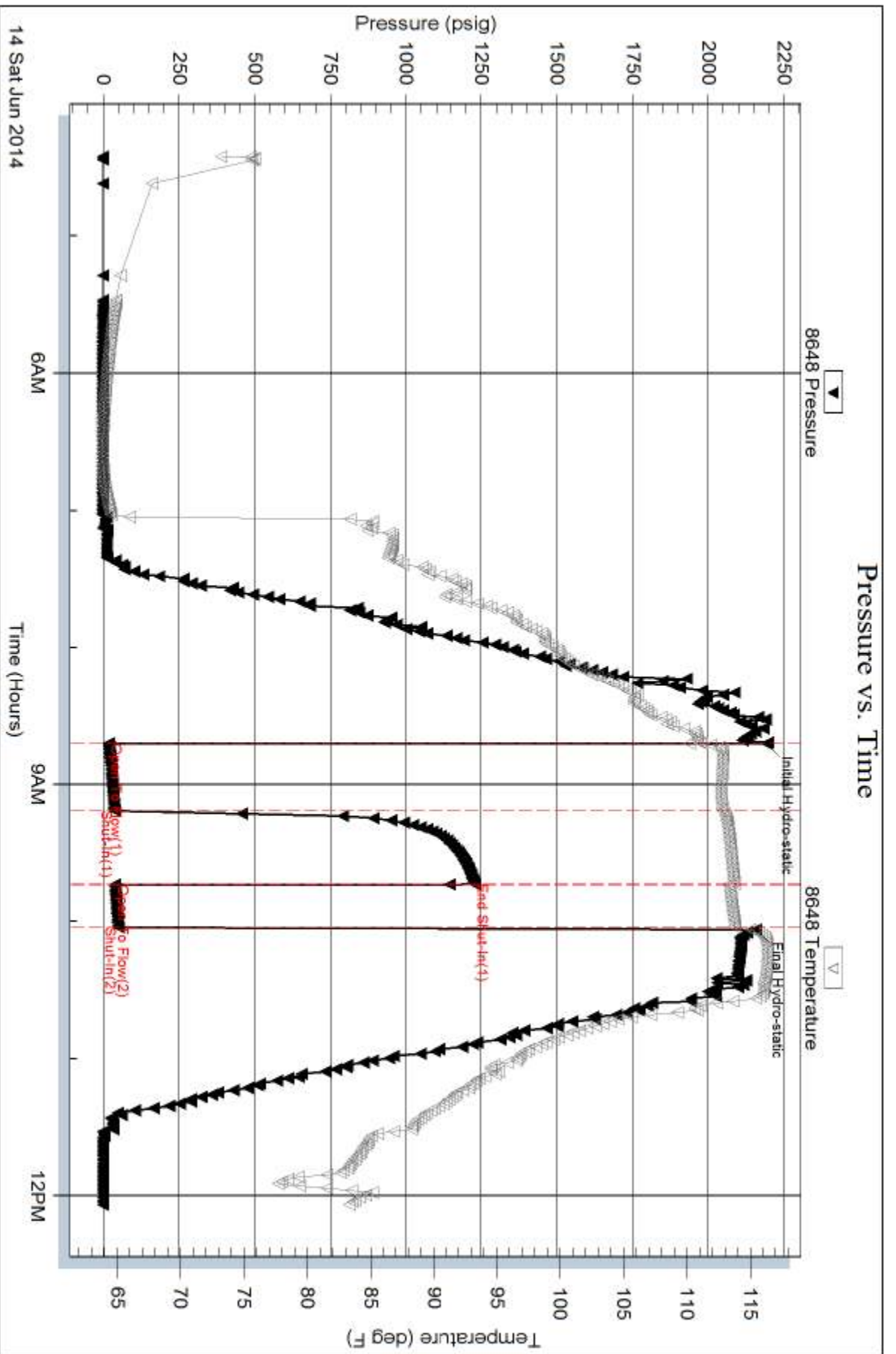
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	24000 ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	MW - Oil scum, 50%M, 50%W	0.148
60.00	MW - Oil spots, 30%M, 70%W	0.295

Total Length: 90.00 ft Total Volume: 0.443 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: Salinity: .27 @ 83 Degrees = 24,000

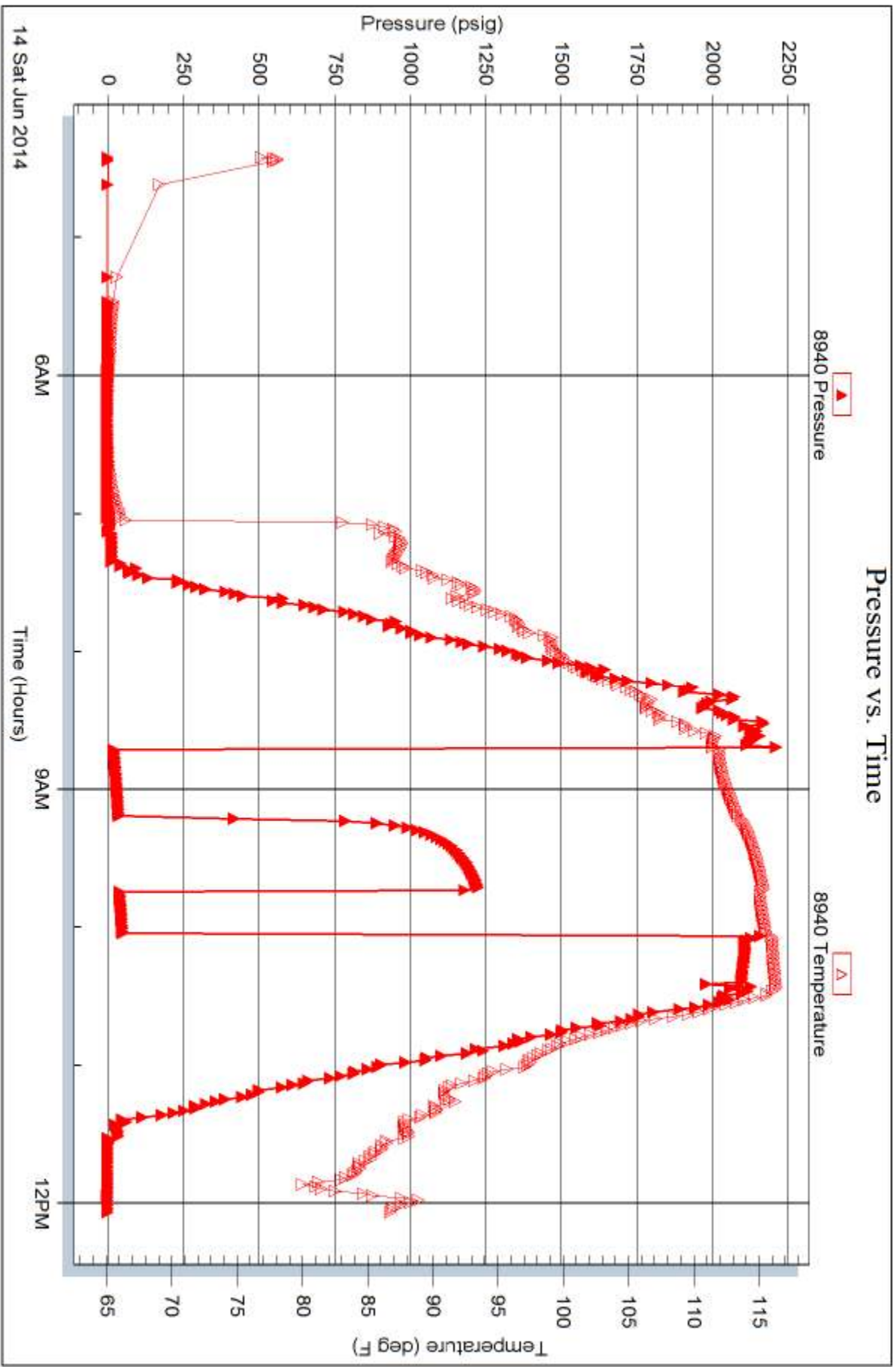


Serial #: 8940

Outside American Warrior Inc

Anslover #1-20

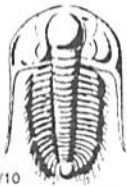
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 54058

Printed: 2014.06.18 @ 13:09:40



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **54058**

Well Name & No. An slover #1-20 Test No. 1 Date 6-14-14
 Company American Warrior INC Elevation 2180 KB 2174 GL
 Address 3118 Cummings Rd, Garden City KS, 67846
 Co. Rep / Geo. Jason Alm Rig Petromark #1
 Location: Sec. 20 Twp. 18s Rge. 21W Co. Ness State KS

Interval Tested 4276-4284 Zone Tested Mississippi
 Anchor Length 8' Drill Pipe Run 4156' Mud Wt. 9.3
 Top Packer Depth 4271 Drill Collars Run 120' Vis 56
 Bottom Packer Depth 4276 Wt. Pipe Run — WL 8.8
 Total Depth 4284 Chlorides 4.500 ppm System LCM —

Blow Description IF-1 1/4" blow
ISI- No return
FF- Surface blow for 20 min. *Pulled Tool*
FSI-

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>MW - oil scum</u>		<u>50</u>	<u>50</u>	
<u>60</u>	<u>MW - oil spots</u>		<u>70</u>	<u>30</u>	

Rec Total 90 BHT 113° Gravity — API RW .27 @ 83° F Chlorides 24,000 ppm

(A) Initial Hydrostatic <u>2191</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0403</u>
(B) First Initial Flow <u>17</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0425</u>
(C) First Final Flow <u>36</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>0842</u>
(D) Initial Shut-In <u>1227</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1002</u>
(E) Second Initial Flow <u>38</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:04</u>
(F) Second Final Flow <u>49</u>	<input checked="" type="checkbox"/> Mileage <u>104RT</u> <u>161.20</u>	Comments
(G) Final Shut-In <u>—</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2158</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30
 Initial Shut-In 30
 Final Flow 20
 Final Shut-In —

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total 1736.20

Sub Total 0
 Total 1736.20
 MP/DST Disc't

Approved By _____ Our Representative Cody Blech

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