



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Fairchild #1-17

17-14s-35w Logan,KS

Start Date: 2017.07.23 @ 06:27:37

End Date: 2017.07.23 @ 12:58:07

Job Ticket #: 63858 DST #: 1

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

Printed: 2017.07.27 @ 11:37:08



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc

17-14s-35w Logan,KS

PO Box 399
Garden City, KS 67846

Fairchild #1-17

Job Ticket: 63858

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.07.23 @ 06:27:37

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:05:37

Time Test Ended: 12:58:07

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4123.00 ft (KB) To 4153.00 ft (KB) (TVD)

Reference Elevations: 3227.00 ft (KB)

Total Depth: 4153.00 ft (KB) (TVD)

3220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8166 Outside

Press@RunDepth: 73.21 psig @ 4124.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.07.23

End Date: 2017.07.23

Last Calib.: 2017.07.23

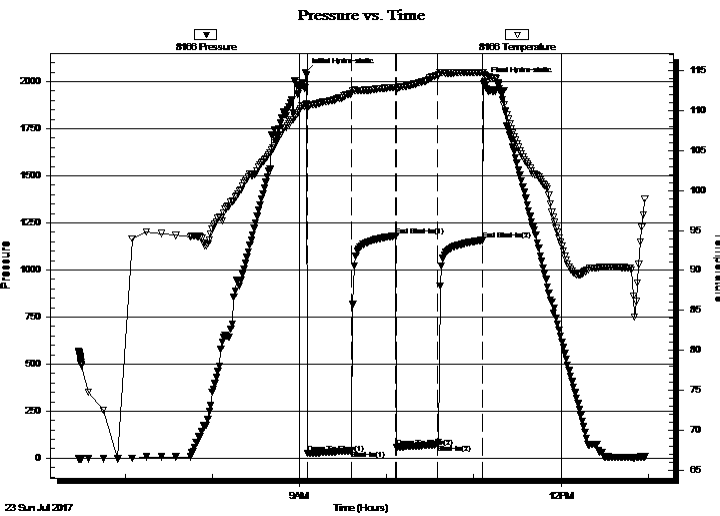
Start Time: 06:27:42

End Time: 12:58:06

Time On Btm: 2017.07.23 @ 09:04:07

Time Off Btm: 2017.07.23 @ 11:07:07

TEST COMMENT: IF: 1/4" blow built to 3"
IS: No return.
FF: Surface blow built to 2"
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2049.06	110.73	Initial Hydro-static
2	25.87	110.45	Open To Flow (1)
32	40.10	112.16	Shut-In(1)
62	1181.04	112.93	End Shut-In(1)
63	58.29	112.66	Open To Flow (2)
91	73.21	114.44	Shut-In(2)
122	1157.72	114.80	End Shut-In(2)
123	1998.35	114.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 20%w 80%m	0.36
90.00	w cm 5%w 95%m	0.55

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: Luke Thompson

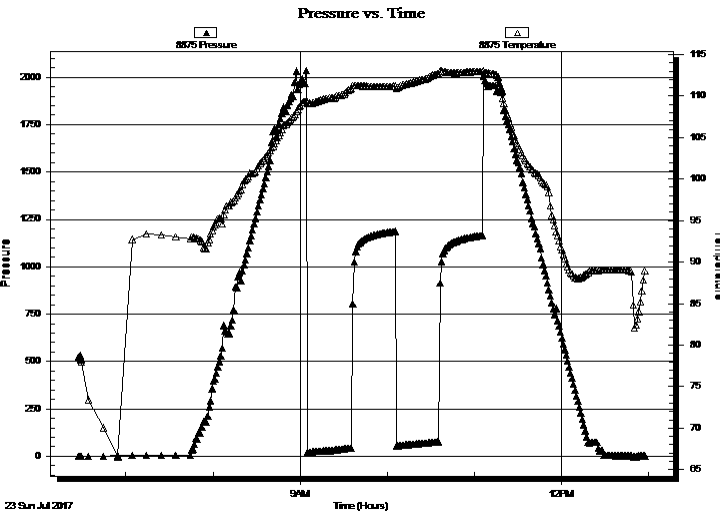
17-14s-35w Logan, KS
Fairchild #1-17
 Job Ticket: 63858 **DST#: 1**
 Test Start: 2017.07.23 @ 06:27:37

GENERAL INFORMATION:

Formation: **LKC D**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 09:05:37 Tester: Brandon Turley
 Time Test Ended: 12:58:07 Unit No: 79
 Interval: **4123.00 ft (KB) To 4153.00 ft (KB) (TVD)** Reference Elevations: 3227.00 ft (KB)
 Total Depth: 4153.00 ft (KB) (TVD) 3220.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8875 Inside
 Press@RunDepth: psig @ 4124.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.07.23 End Date: 2017.07.23 Last Calib.: 2017.07.23
 Start Time: 06:27:26 End Time: 12:57:50 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 3"
 IS: No return.
 FF: Surface blow built to 2"
 FS: No return.



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	w cm 20% w 80% m	0.36
90.00	w cm 5% w 95% m	0.55

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

17-14s-35w Logan,KS

PO Box 399
Garden City, KS 67846

Fairchild #1-17

Job Ticket: 63858

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.07.23 @ 06:27:37

Tool Information

Drill Pipe:	Length: 3789.00 ft	Diameter: 3.88 inches	Volume: 55.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.50 inches	Volume: 1.89 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4123.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	57.00 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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Stubb	1.00			4097.00	
Shut In Tool	5.00			4102.00	
Hydraulic tool	5.00			4107.00	
Jars	5.00			4112.00	
Safety Joint	2.00			4114.00	
Packer	5.00			4119.00	27.00 Bottom Of Top Packer
Packer	4.00			4123.00	
Stubb	1.00			4124.00	
Recorder	0.00	8875	Inside	4124.00	
Recorder	0.00	8166	Outside	4124.00	
Perforations	24.00			4148.00	
Bullnose	5.00			4153.00	30.00 Bottom Packers & Anchor

Total Tool Length: 57.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

17-14s-35w Logan,KS

PO Box 399
Garden City, KS 67846

Fairchild #1-17

Job Ticket: 63858

DST#: 1

ATTN: Luke Thompson

Test Start: 2017.07.23 @ 06:27:37

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

16000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	w cm 20%w 80%m	0.364
90.00	w cm 5%w 95%m	0.546

Total Length: 150.00 ft Total Volume: 0.910 bbl

Num Fluid Samples: 0

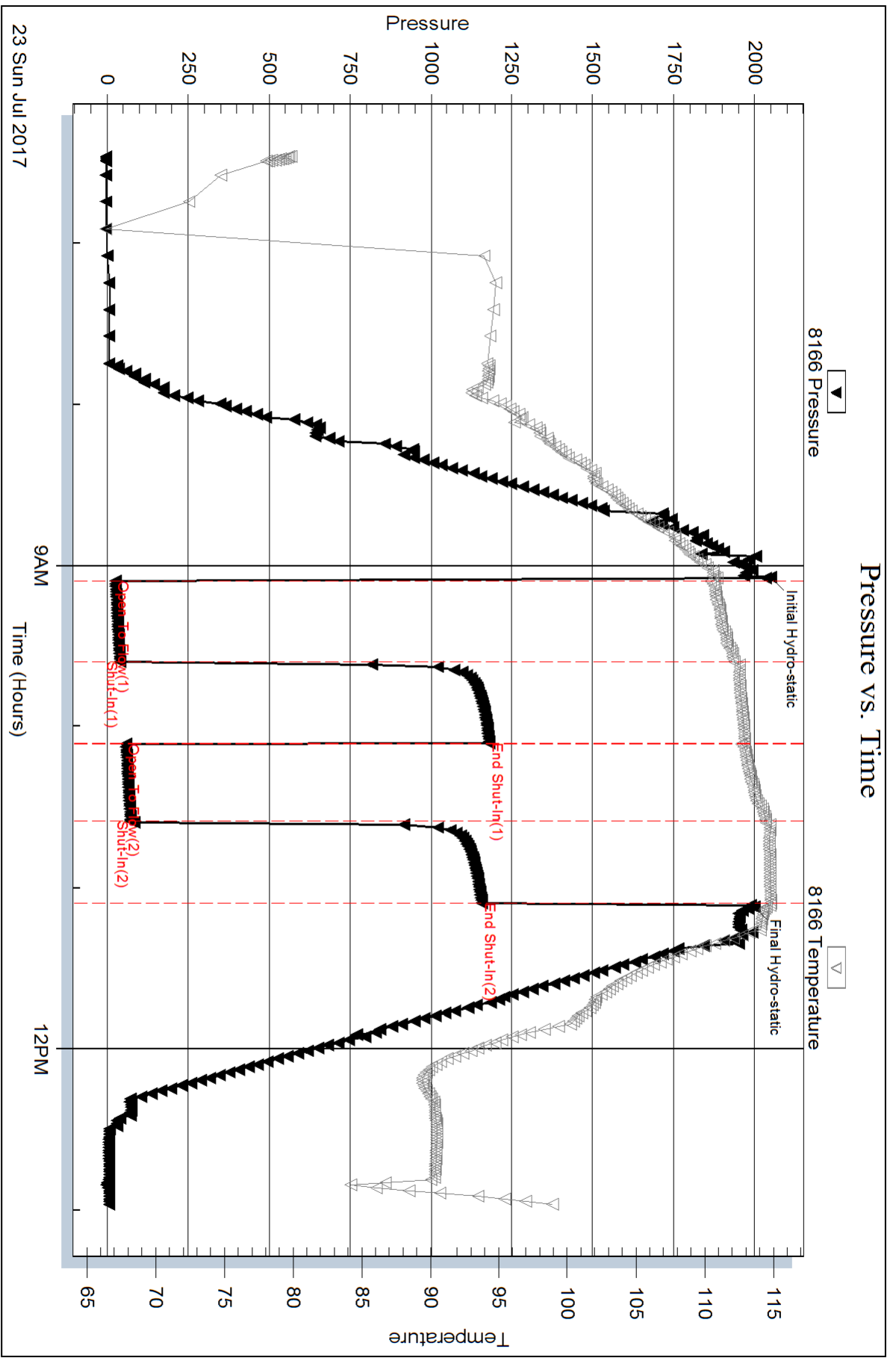
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .30@96=16000



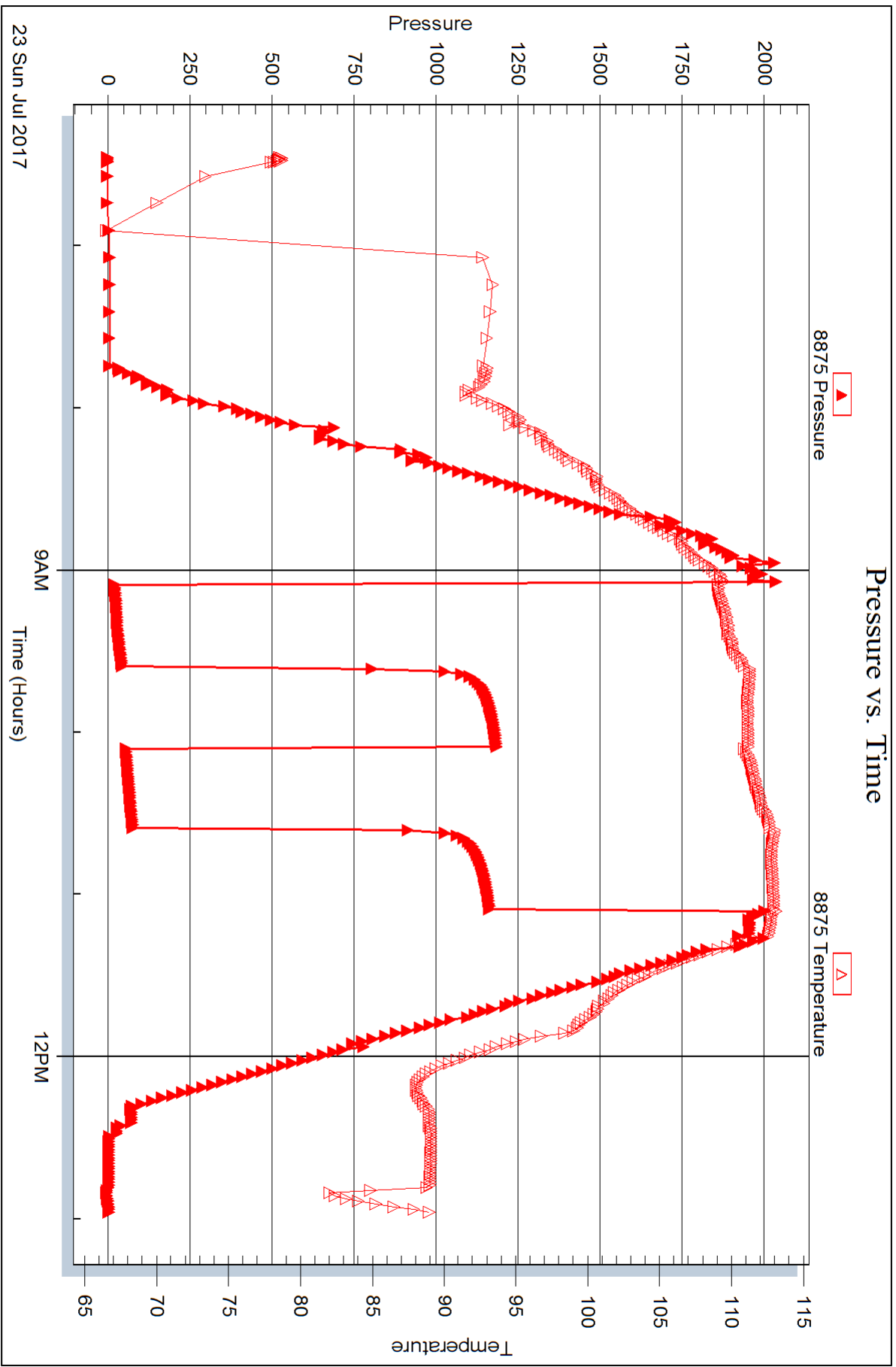
Serial #: 8875

Inside

American Warrior Inc

Fairchild #1-17

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc**

PO Box 399
Garden City, KS 67846

ATTN: Luke Thompson

Fairchild #1-17

17-14s-35w Logan,KS

Start Date: 2017.07.24 @ 18:40:31

End Date: 2017.07.25 @ 02:37:01

Job Ticket #: 63859 DST #: 2

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

Printed: 2017.07.27 @ 11:35:56



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc
PO Box 399
Garden City, KS 67846
ATTN: Luke Thompson

17-14s-35w Logan,KS
Fairchild #1-17
Job Ticket: 63859 **DST#: 2**
Test Start: 2017.07.24 @ 18:40:31

GENERAL INFORMATION:

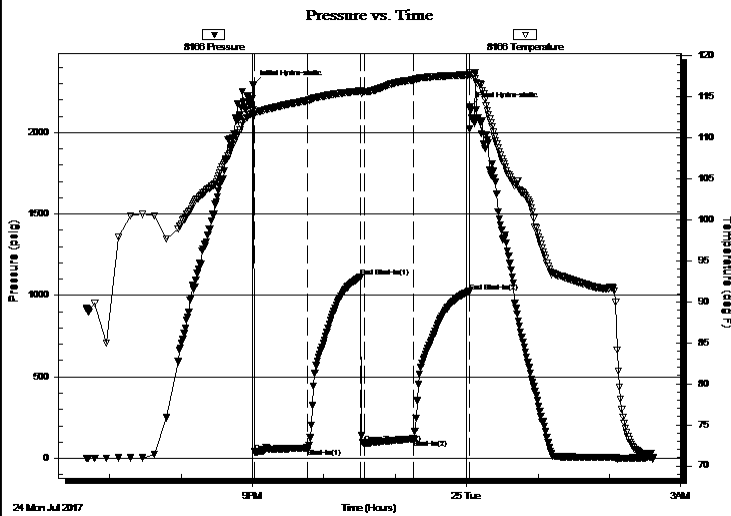
Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 21:01:31
Time Test Ended: 02:37:01
Interval: **4403.00 ft (KB) To 4470.00 ft (KB) (TVD)**
Total Depth: 4470.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Reset)
Tester: Brandon Turley
Unit No: 79
Reference Elevations: 3227.00 ft (KB)
3220.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8166

Outside

Press@RunDepth: 119.51 psig @ 4404.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2017.07.24 End Date: 2017.07.25 Last Calib.: 2017.07.25
Start Time: 18:40:36 End Time: 02:37:00 Time On Btm: 2017.07.24 @ 21:00:31
Time Off Btm: 2017.07.25 @ 00:03:01

TEST COMMENT: IF: 1/4" blow built to 7"
IS: No return.
FF: Surface blow built to 7"
FS: Surface blow built to 1/2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2292.38	113.47	Initial Hydro-static
1	38.92	112.81	Open To Flow (1)
46	63.78	114.57	Shut-In(1)
91	1111.17	115.72	End Shut-In(1)
94	89.47	115.63	Open To Flow (2)
135	119.51	117.07	Shut-In(2)
182	1024.00	117.69	End Shut-In(2)
183	2158.79	117.89	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
157.00	gocm 10%g 10%o 80%m	0.95
94.00	go 30%g 70%o	0.57
0.00	252 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc

17-14s-35w Logan, KS

PO Box 399
Garden City, KS 67846

Fairchild #1-17

Job Ticket: 63859 **DST#: 2**

ATTN: Luke Thompson

Test Start: 2017.07.24 @ 18:40:31

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:01:31

Time Test Ended: 02:37:01

Interval: **4403.00 ft (KB) To 4470.00 ft (KB) (TVD)**

Total Depth: 4470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Reference Elevations: 3227.00 ft (KB)

3220.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8875 Inside

Press@RunDepth: psig @ 4404.00 ft (KB)

Start Date: 2017.07.24

End Date: 2017.07.25

Capacity: 8000.00 psig

Last Calib.: 2017.07.25

Start Time: 18:40:32

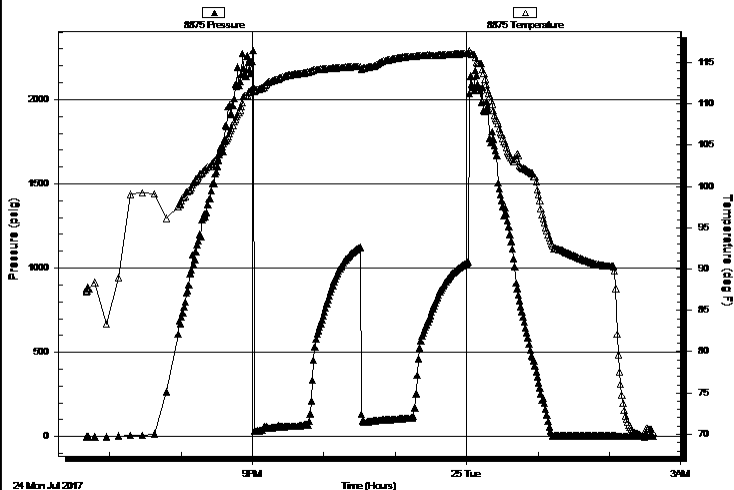
End Time: 02:36:56

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 1/4" blow built to 7"
IS: No return.
FF: Surface blow built to 7"
FS: Surface blow built to 1/2"

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
157.00	gocm 10%g 10%o 80%m	0.95
94.00	go 30%g 70%o	0.57
0.00	252 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc

17-14s-35w Logan,KS

PO Box 399
Garden City, KS 67846

Fairchild #1-17

Job Ticket: 63859

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.07.24 @ 18:40:31

Tool Information

Drill Pipe:	Length: 4075.00 ft	Diameter: 3.88 inches	Volume: 59.59 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 311.00 ft	Diameter: 2.50 inches	Volume: 1.89 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 61.48 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	62000.00 lb
Depth to Top Packer:	4403.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	67.00 ft				
Tool Length:	94.00 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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Stubb	1.00			4377.00	
Shut In Tool	5.00			4382.00	
Hydraulic tool	5.00			4387.00	
Jars	5.00			4392.00	
Safety Joint	2.00			4394.00	
Packer	5.00			4399.00	27.00 Bottom Of Top Packer
Packer	4.00			4403.00	
Stubb	1.00			4404.00	
Recorder	0.00	8875	Inside	4404.00	
Recorder	0.00	8166	Outside	4404.00	
Perforations	27.00			4431.00	
Change Over Sub	1.00			4432.00	
Drill Pipe	32.00			4464.00	
Change Over Sub	1.00			4465.00	
Bullnose	5.00			4470.00	67.00 Bottom Packers & Anchor

Total Tool Length: 94.00



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc

17-14s-35w Logan,KS

PO Box 399
Garden City, KS 67846

Fairchild #1-17

Job Ticket: 63859

DST#: 2

ATTN: Luke Thompson

Test Start: 2017.07.24 @ 18:40:31

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
157.00	gocm 10%g 10%o 80%m	0.953
94.00	go 30%g 70%o	0.571
0.00	252 GIP	0.000

Total Length: 251.00 ft Total Volume: 1.524 bbl

Num Fluid Samples: 0

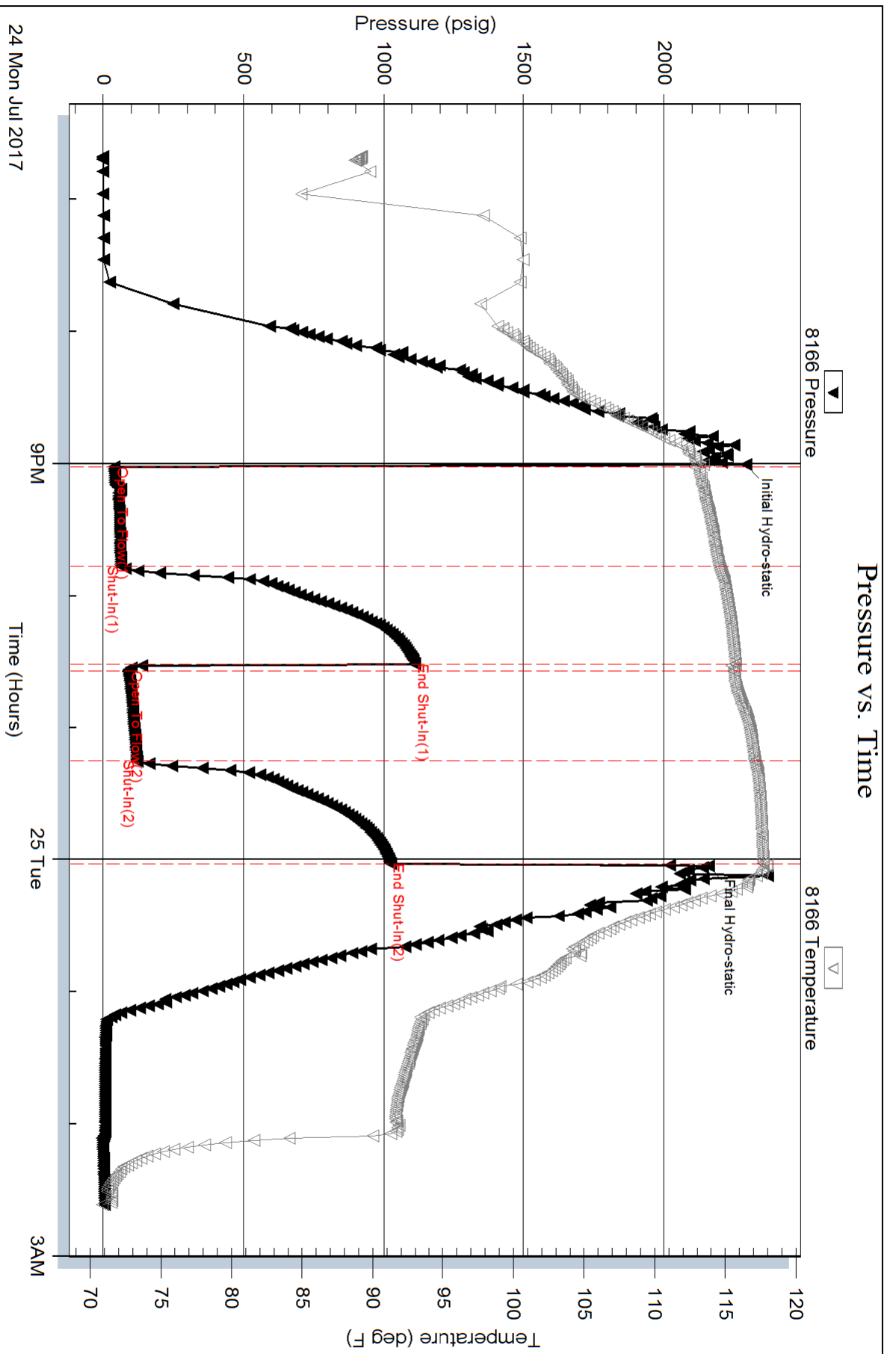
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 32@80=30



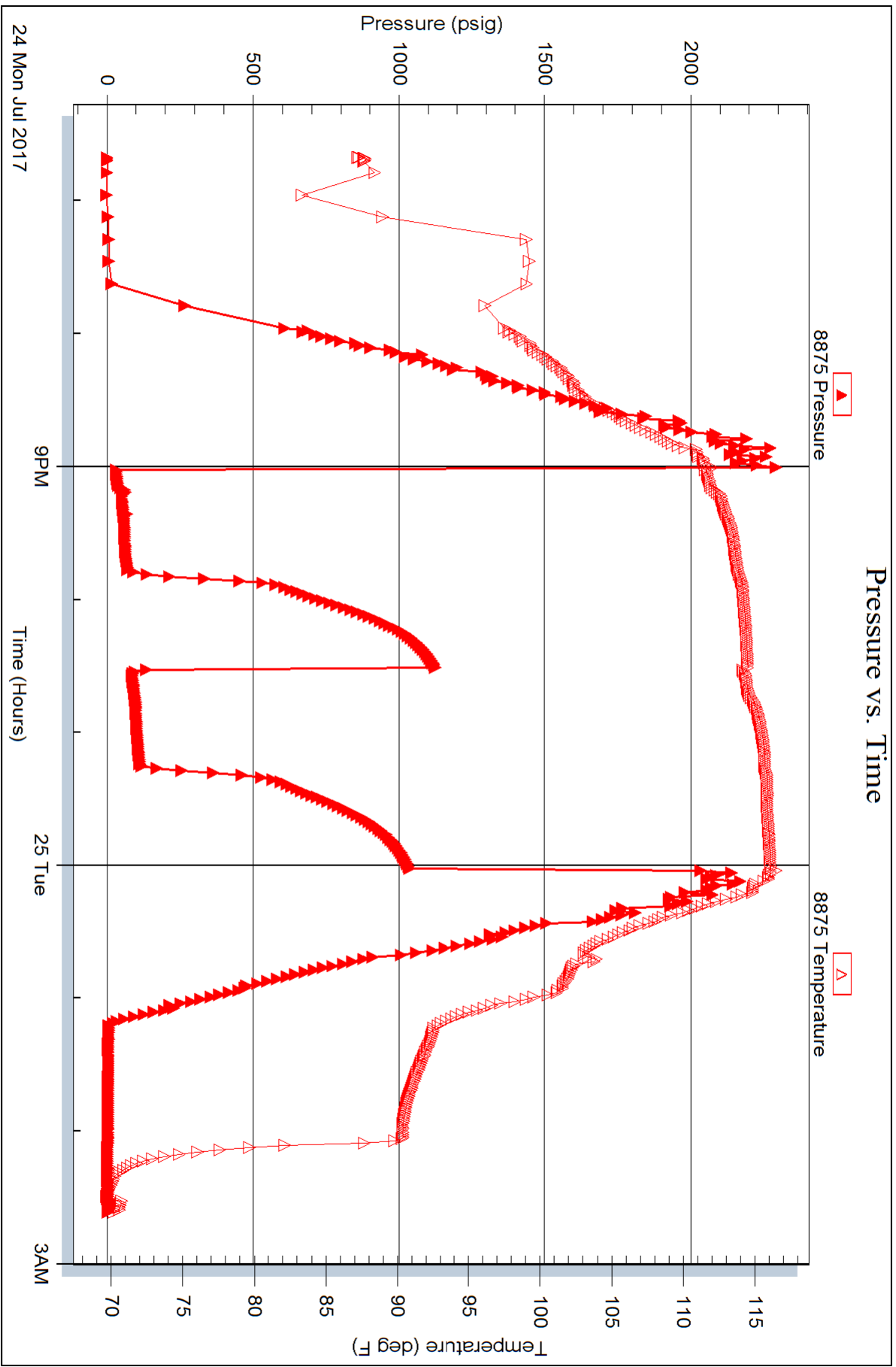
Serial #: 8875

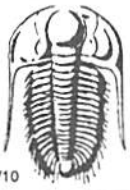
Inside

American Warrior Inc

Fairchild #1-17

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **63858**

Well Name & No. Fairchild 1-17 Test No. 1 Date 7-23-17
 Company American Warrior Inc Elevation 3227 KB 3220 GL
 Address P.O. Box 399 Garden city, KS 67846
 Co. Rep / Geo. Luke Thompson Rig Discovery #1
 Location: Sec. 17 Twp. 14S Rge. 35W Co. Logan State KS

Interval Tested 4123 4153 Zone Tested Lansing D
 Anchor Length 30 Drill Pipe Run _____ Mud Wt. 9.0
 Top Packer Depth 4118 Drill Collars Run 3789 Vis 50
 Bottom Packer Depth 4123 Wt. Pipe Run 311 WL 6.8
 Total Depth 4153 Chlorides 3000 ppm System LCM 2

Blow Description IF: 1/4 blow built to 3.
IS: NO return,
FF: surface blow built to 2.
FS: NO return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>wcm</u>		<u>5</u>	<u>95</u>	
<u>60</u>	<u>wcm</u>		<u>20</u>	<u>80</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 150 BHT 114 Gravity _____ API RW .30 @ 96 °F Chlorides 16,000 ppm

(A) Initial Hydrostatic 2049 Test 1150 T-On Location 5:20
 (B) First Initial Flow 25 Jars 250 T-Started 6:27
 (C) First Final Flow 40 Safety Joint 75 T-Open 9:55
 (D) Initial Shut-In 1081 Circ Sub NIL T-Pulled 11:05
 (E) Second Initial Flow 58 Hourly Standby _____ T-Out 13:00
 (F) Second Final Flow 73 Mileage 142 - 106.50 Comments _____
 (G) Final Shut-In 1157 Sampler _____
 (H) Final Hydrostatic 1998 Straddle _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 30 Ruined Packer _____
 Final Flow 30 Extra Packer _____
 Final Shut-In 30 Extra Recorder _____
 Sub Total 1581.50 Day Standby _____
 Total 1581.50 Accessibility _____
 MP/DST Disc't _____

Approved By [Signature] 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. **63859**

Well Name & No. Fairchild 1-17 Test No. 2 Date 7-24-17
 Company American Warrior Inc Elevation 3227 KB 3220 GL
 Address _____
 Co. Rep / Geo. Luke Thompson Rig Discovery #1
 Location: Sec. 17 Twp. 145 Rge. 35W Co. Logan State KS

Interval Tested 4403 4470 Zone Tested Marmaton
 Anchor Length _____ 67 Drill Pipe Run 4075 Mud Wt. 9.3
 Top Packer Depth _____ 4398 Drill Collars Run _____ Vis 54
 Bottom Packer Depth _____ 4403 Wt. Pipe Run 311 WL 8.8
 Total Depth _____ 4470 Chlorides 5000 ppm System LCM 1
 Blow Description IF: 1/4 blow built to 7,
IS: No return.
FF: Surface blow built to 7.
FS: Surface blow built to 1/2.

Rec	Feet of	%gas	%oil	%water	%mud
<u>94</u>	<u>90</u>	<u>30</u>	<u>70</u>		
<u>157</u>	<u>90cm</u>	<u>10</u>	<u>10</u>		<u>80</u>
	<u>252 GFP</u>				

Rec Total 251 BHT 117 Gravity 30 API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2292</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>16:55</u>
(B) First Initial Flow <u>38</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>18:40</u>
(C) First Final Flow <u>63</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>21:00</u>
(D) Initial Shut-In <u>1111</u>	<input checked="" type="checkbox"/> Circ Sub <u>NIC</u>	T-Pulled <u>00:00</u>
(E) Second Initial Flow <u>89</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:35</u>
(F) Second Final Flow <u>119</u>	<input checked="" type="checkbox"/> Mileage <u>142-x</u> 213	Comments <u>loaded on 7-26</u>
(G) Final Shut-In <u>1024</u>	<input type="checkbox"/> Sampler	<u>at 16:30</u>
(H) Final Hydrostatic <u>2158</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>800</u>
Final Flow <u>45</u>	<input checked="" type="checkbox"/> Day Standby 1.5d 2h	Total <u>2488</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't _____
	Sub Total <u>1688</u>	

Approved By _____ Our Representative [Signature]

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