



DRILL STEM TEST REPORT

Prepared For: **American Warrior**

PO Box 399
Garden City, KS 67846

ATTN: Jason Alm

SNS #1-7

7-20s-20w. Pawnee,KS

Start Date: 2014.03.24 @ 07:00:00

End Date: 2014.03.24 @ 14:15:00

Job Ticket #: 56168 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

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American Warrior
7-20s-20w. Pawnee,KS
SNS #1-7
DST # 1
Mississippi
2014.03.24



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

7-20s-20w. Pawnee, KS

SNS #1-7

Job Ticket: 56168 **DST#: 1**

Test Start: 2014.03.24 @ 07:00:00

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:49:30 Tester: Bob Hamel
 Time Test Ended: 14:15:00 Unit No: 67
 Interval: **4379.00 ft (KB) To 4388.00 ft (KB) (TVD)** Reference Elevations: 2241.00 ft (KB)
 Total Depth: 4388.00 ft (KB) (TVD) 2235.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

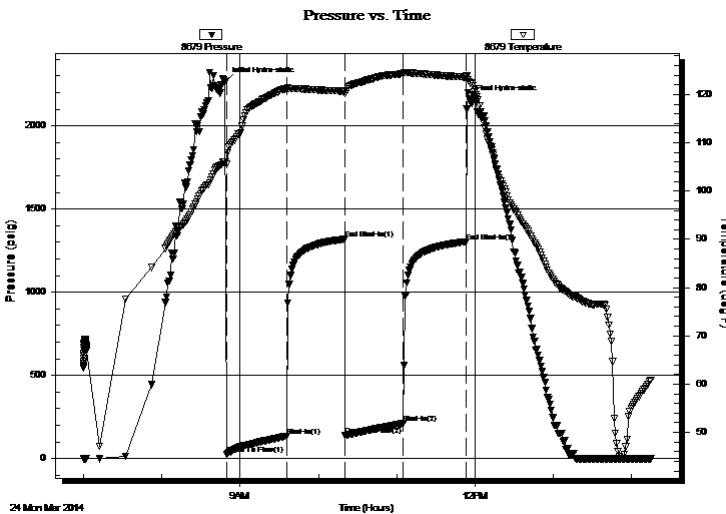
Serial #: 8679

Inside

Press@RunDepth: 211.20 psig @ 4380.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.03.24 End Date: 2014.03.24 Last Calib.: 2014.03.24
 Start Time: 07:00:01 End Time: 14:15:00 Time On Btm: 2014.03.24 @ 08:48:30
 Time Off Btm: 2014.03.24 @ 11:55:30

TEST COMMENT: I.F. - 45 - BOB in 21 min
 I.S.I. - 45 - No blow back
 F.F. - 45 - BOB in 26 min
 F.S.I. - 45 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2264.94	105.95	Initial Hydro-static
1	26.94	105.59	Open To Flow (1)
47	135.12	121.21	Shut-In(1)
92	1319.91	120.70	End Shut-In(1)
92	138.90	120.20	Open To Flow (2)
137	211.20	124.34	Shut-In(2)
185	1304.56	123.62	End Shut-In(2)
187	2160.91	122.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
435.00	M,W, 10% MUD 90% WATER	4.95
43.00	O,C,W, 10% OIL 90% WATER	0.60
25.00	CLEAN OIL	0.35

Gas Rates

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



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TOOL DIAGRAM

American Warrior

7-20s-20w. Pawnee, KS

PO Box 399
Garden City, KS 67846

SNS #1-7

Job Ticket: 56168

DST#: 1

ATTN: Jason Alm

Test Start: 2014.03.24 @ 07:00:00

Tool Information

Drill Pipe:	Length: 4256.00 ft	Diameter: 3.80 inches	Volume: 59.70 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 126.00 ft	Diameter: 2.25 inches	Volume: 0.62 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 60.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4379.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	29.00 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			4360.00	
Shut In Tool	5.00			4365.00	
Hydraulic tool	5.00			4370.00	
Packer	4.00			4374.00	20.00 Bottom Of Top Packer
Packer	5.00			4379.00	
Stubb	1.00			4380.00	
Recorder	0.00	6625	Outside	4380.00	
Recorder	0.00	8679	Inside	4380.00	
Perforations	4.00			4384.00	
Bullnose	4.00			4388.00	9.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



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FLUID SUMMARY

American Warrior

7-20s-20w. Pawnee, KS

PO Box 399
Garden City, KS 67846

SNS #1-7

Job Ticket: 56168

DST#: 1

ATTN: Jason Alm

Test Start: 2014.03.24 @ 07:00:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35.4 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

30000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
435.00	M,W, 10% MUD 90% WATER	4.954
43.00	O,C,W, 10% OIL 90% WATER	0.603
25.00	CLEAN OIL	0.351

Total Length: 503.00 ft Total Volume: 5.908 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. .32 @ 51.4 degF

API 35.4 @ 60 DEG.

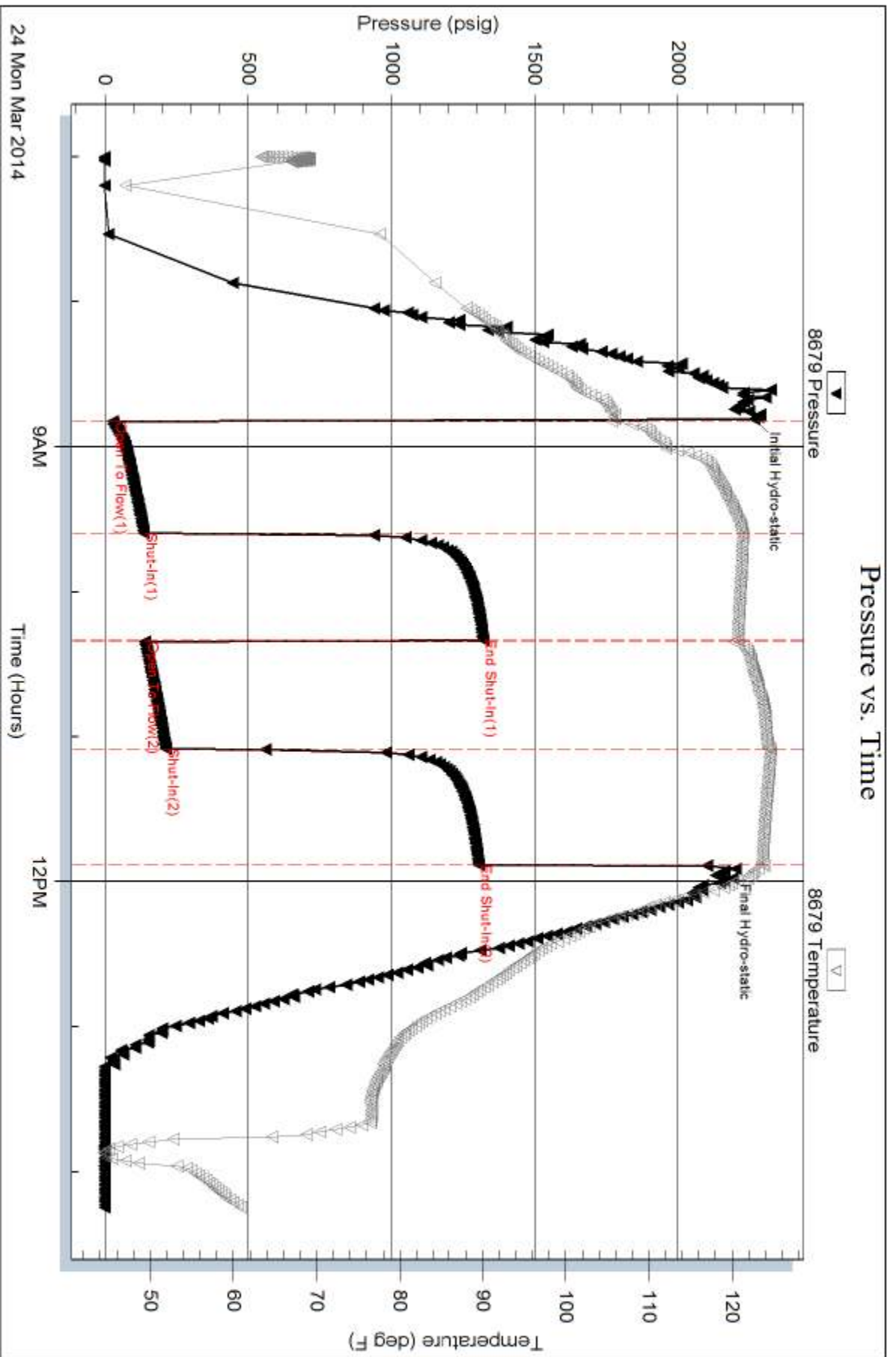
Serial #: 8679

Inside

American Warrior

SNS #1-7

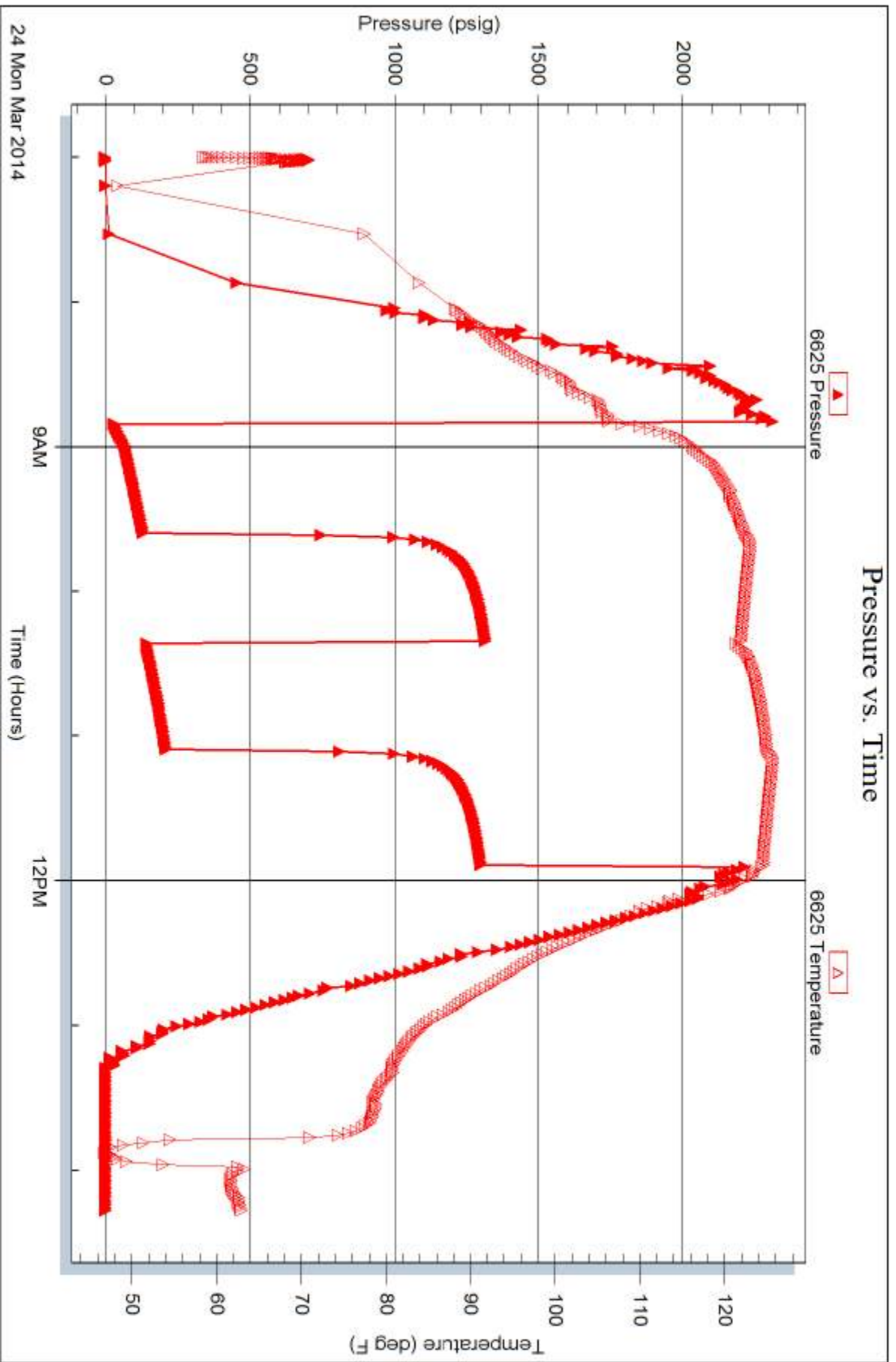
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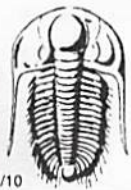


Trilobite Testing, Inc

Ref. No: 56168

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56168**

Well Name & No. SNS #1-7 Test No. 1 Date 3-24-14
 Company American Warrior, INC. Elevation 2241 KB 2235 GL
 Address 3118 Cummings S. RD. P.O. Box 399 Garden City KS. 67846
 Co. Rep / Geo. Jason Alm Rig Retro Mark Rig #1
 Location: Sec. 7 Twp. 20 S Rge. 20 W Co. Pawnee State KS.

Interval Tested 4379-4388 Zone Tested MISS.
 Anchor Length 9' Drill Pipe Run 4256. Mud Wt. 9.6
 Top Packer Depth 4374 Drill Collars Run 126 Vis 70
 Bottom Packer Depth 4379 Wt. Pipe Run — WL 8.0
 Total Depth 4388 Chlorides 6,600 ppm System LCM 0

Blow Description I.F. - 45 - 1/2" INT Blow Built to (B.O.B. in 21 min.)
F.S.I. - 45 - No B.B.
F.F. - 45 - 1/2" INT Blow Built to (B.O.B. in 16 min.)
F.S.I. - 45 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
25'	C/O	100			
43'	O.C.W	10		90	
435'	M.W			90	10

Rec Total 505' BHT 122 Gravity 35.4 API RW .32 @ 51.4 °F Chlorides 30000 ppm

(A) Initial Hydrostatic 2,265 Test 1250 T-On Location 05:50:00
 (B) First Initial Flow 27 Jars 250 T-Started 07:00:00
 (C) First Final Flow 135 Safety Joint 75 T-Open 09:08
 (D) Initial Shut-In 1,320 Circ Sub _____ T-Pulled 12:08:00
 (E) Second Initial Flow 139 Hourly Standby _____ T-Out 14:30:00
 (F) Second Final Flow 211 Mileage 108/R.T. 167.40 Comments _____
 (G) Final Shut-In 1,305 Sampler _____ "Thank you"
 (H) Final Hydrostatic 2,161 Straddle _____ Ruined Shale Packer _____
 Ruined Packer 320

Initial Open 45 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 2062.40
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1742.40

Approved By _____ Our Representative [Signature]

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