



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City KS 67846

ATTN: Wyatt Urban

Shadow #6-17

17-28s-30w Gray,KS

Start Date: 2014.03.17 @ 16:48:00

End Date: 2014.03.18 @ 02:26:25

Job Ticket #: 56322 DST #: 1

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

Printed: 2014.03.25 @ 09:36:08



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

American Warrior Inc.
PO Box 399
Garden City KS 67846
ATTN: Wyatt Urban

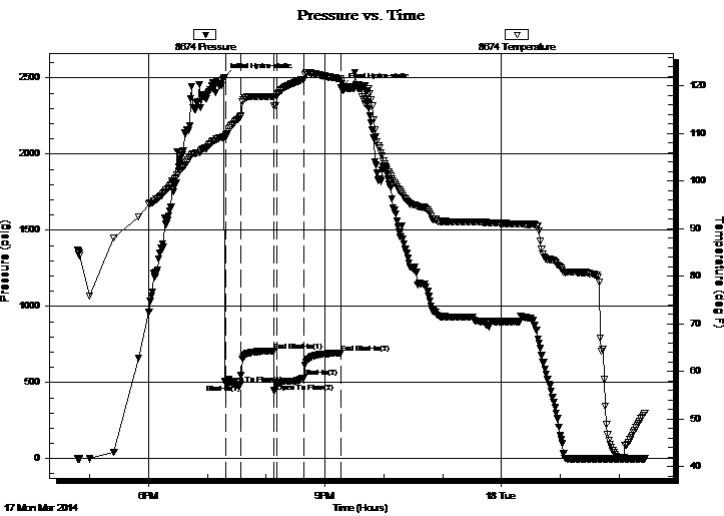
17-28s-30w Gray,KS
Shadow #6-17
Job Ticket: 56322 **DST#: 1**
Test Start: 2014.03.17 @ 16:48:00

GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 19:18:40
Time Test Ended: 02:26:25
Interval: **5051.00 ft (KB) To 5125.00 ft (KB) (TVD)**
Total Depth: 5125.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Will MacLean
Unit No: 72
Reference Elevations: 2818.00 ft (KB)
2805.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8674 Inside
Press@RunDepth: 532.83 psig @ 5052.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.17 End Date: 2014.03.18 Last Calib.: 2014.03.18
Start Time: 16:48:00 End Time: 02:26:25 Time On Btm: 2014.03.17 @ 19:17:10
Time Off Btm: 2014.03.17 @ 21:16:39

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 22 sec Gas to Surface in 8 min
IS- BOB
FF- Strong Surface Blow Built to BOB in 6 sec
FS- BOB



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2502.67	109.20	Initial Hydro-static
2	492.00	109.50	Open To Flow (1)
17	486.79	113.63	Shut-In(1)
51	708.15	117.74	End Shut-In(1)
54	492.60	118.09	Open To Flow (2)
82	532.83	121.44	Shut-In(2)
119	694.91	121.52	End Shut-In(2)
120	2439.69	121.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMCO 4%g 24%m 72%oil	0.61
440.00	20min Sample GMCO 4%g 23%m 73%o	05.63
440.00	15min Sample GMCO 20%g 28%m 52%o	6.17
440.00	10min Sample GMCO 5%g 18%m 77%o	6.17
443.00	5min Sample MGCO 11%m 15%g 74%o	6.21
31.00	OGCM 7%oil 12%g 81%m	0.43

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	30.00	1276.45
Last Gas Rate	1.00	18.00	931.46
Max. Gas Rate	1.00	30.00	1276.45



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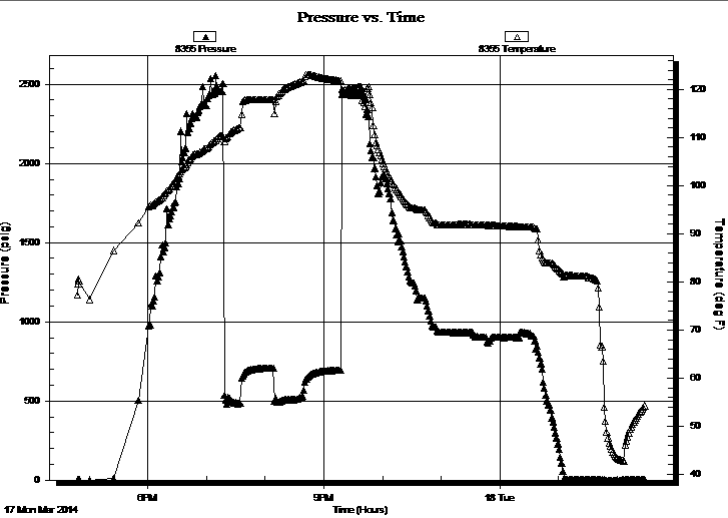
17-28s-30w Gray,KS
Shadow #6-17
Job Ticket: 56322 **DST#: 1**
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GENERAL INFORMATION:

Formation: **Morrow Sand**
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened: 19:18:40 Tester: Will MacLean
Time Test Ended: 02:26:25 Unit No: 72
Interval: 5051.00 ft (KB) To 5125.00 ft (KB) (TVD) Reference Elevations: 2818.00 ft (KB)
Total Depth: 5125.00 ft (KB) (TVD) 2805.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 13.00 ft

Serial #: 8355 Outside
Press@RunDepth: psig @ 5052.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.03.17 End Date: 2014.03.18 Last Calib.: 2014.03.18
Start Time: 16:48:05 End Time: 02:28:15 Time On Btm:
Time Off Btm:

TEST COMMENT: IF- Strong Surface Blow Built to BOB in 22 sec Gas to Surface in 8 min
IS- BOB
FF- Strong Surface Blow Built to BOB in 6 sec
FS- BOB



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

Length (ft)	Description	Volume (bbl)
124.00	GMCO 4%g 24%m 72%oil	0.61
440.00	20min Sample GMCO 4%g 23%m 73%o	5.63
440.00	15min Sample GMCO 20%g 28%m 52%	6.17
440.00	10min Sample GMCO 5%g 18%m 77%	6.17
443.00	5min Sample MGCO 11%m 15%g 74%	6.21
31.00	OGCM 7%oil 12%g 81%m	0.43

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	1.00	30.00	1276.45
Last Gas Rate	1.00	18.00	931.46
Max. Gas Rate	1.00	30.00	1276.45



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

17-28s-30w Gray,KS

PO Box 399
Garden City KS 67846

Shadow #6-17

Job Ticket: 56322

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.03.17 @ 16:48:00

Tool Information

Drill Pipe:	Length: 4870.00 ft	Diameter: 3.80 inches	Volume: 68.31 bbl	Tool Weight:	2000.00 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: 184.00 ft	Diameter: 2.25 inches	Volume: 0.90 bbl	Weight to Pull Loose:	14000.00 lb
			<u>Total Volume: 69.21 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	76000.00 lb
Depth to Top Packer:	5051.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	101.00 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			5025.00	
Shut In Tool	5.00			5030.00	
Hydraulic tool	5.00			5035.00	
Jars	5.00			5040.00	
Safety Joint	2.00			5042.00	
Packer	5.00			5047.00	27.00 Bottom Of Top Packer
Packer	4.00			5051.00	
Stubb	1.00			5052.00	
Recorder	0.00	8355	Outside	5052.00	
Recorder	0.00	8674	Inside	5052.00	
Perforations	3.00			5055.00	
Change Over Sub	1.00			5056.00	
Drill Pipe	63.00			5119.00	
Change Over Sub	1.00			5120.00	
Bullnose	5.00			5125.00	74.00 Bottom Packers & Anchor

Total Tool Length: 101.00



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

17-28s-30w Gray,KS

PO Box 399
Garden City KS 67846

Shadow #6-17

Job Ticket: 56322

DST#: 1

ATTN: Wyatt Urban

Test Start: 2014.03.17 @ 16:48:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 7.98 in³
Resistivity: ohm.m
Salinity: 2800.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 25 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GMCO 4%g 24%m 72%oil	0.610
440.00	20min Sample GMCO 4%g 23%m 73%oil	5.625
440.00	15min Sample GMCO 20%g 28%m 52%oil	6.172
440.00	10min Sample GMCO 5%g 18%m 77%oil	6.172
443.00	5min Sample MGCO 11%m 15%g 74%oil	6.214
31.00	OGCM 7%oil 12%g 81%m	0.435
0.00	3118' of GIP	0.000

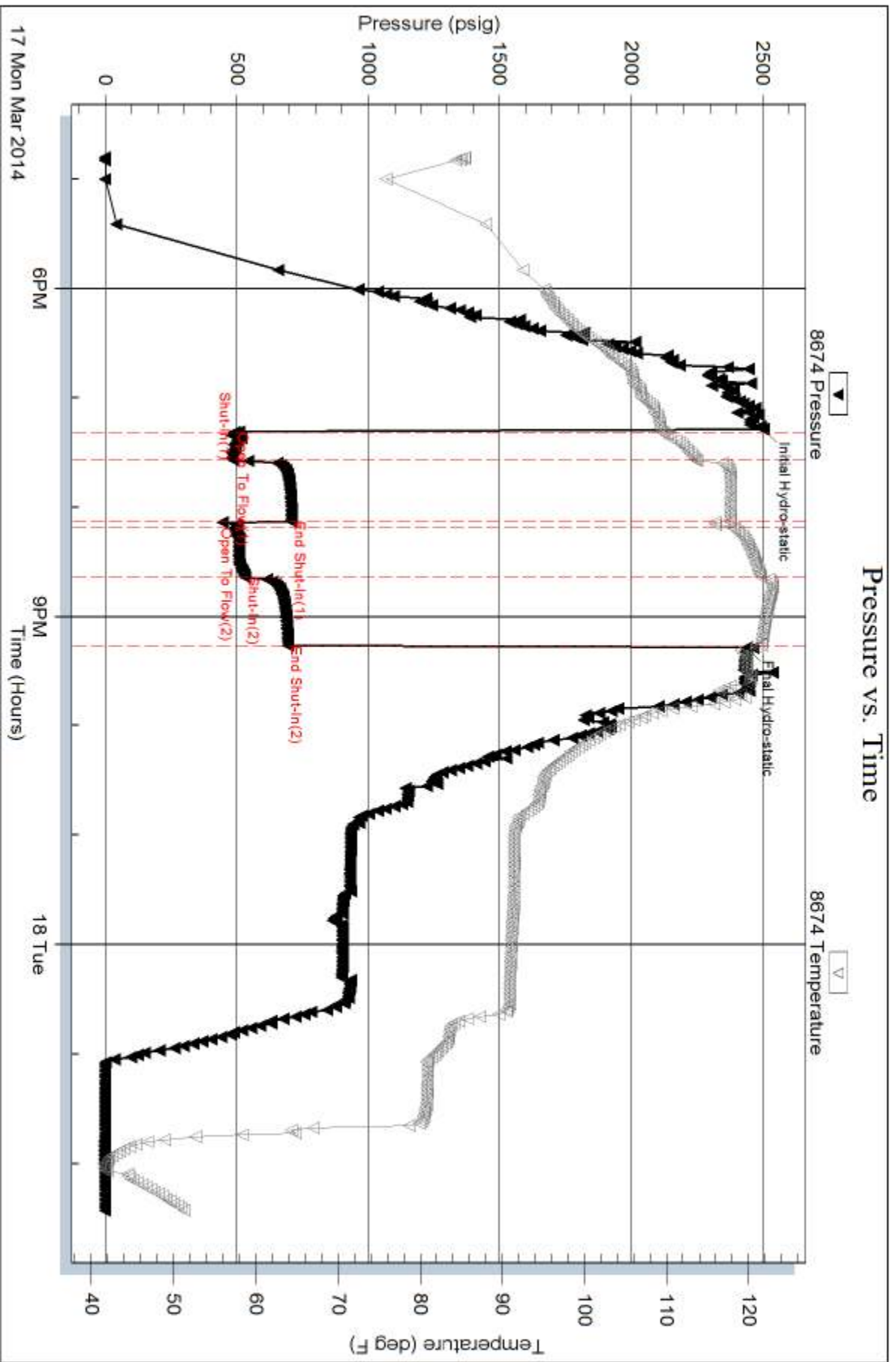
Total Length: 1918.00 ft Total Volume: 25.228 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: API is 24 @ 50f = 25

Pressure vs. Time

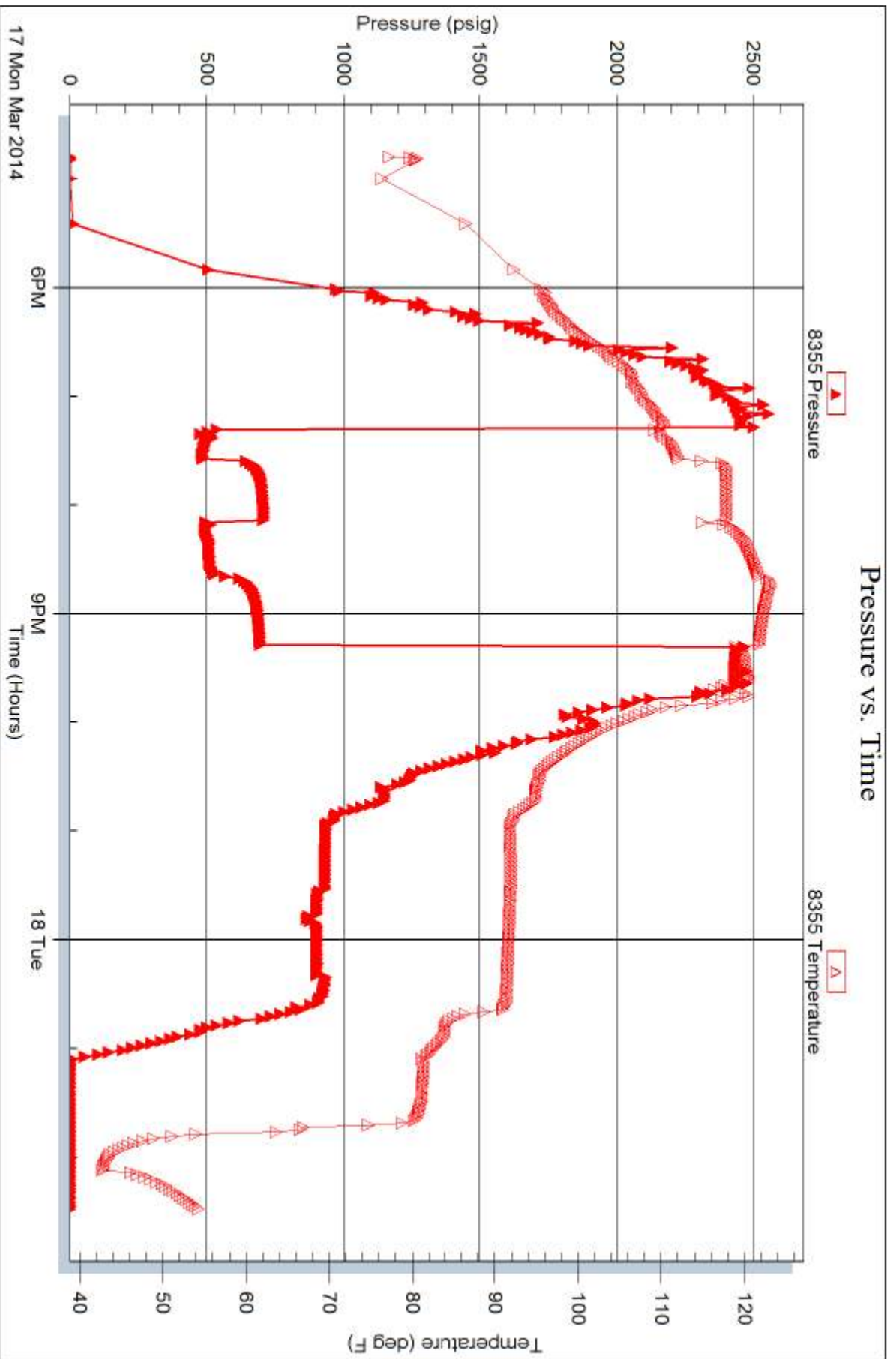


Serial #: 8355

Outside American Warrior Inc.

Shadow #6-17

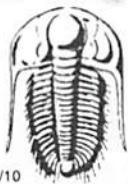
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56322

Printed: 2014.03.25 @ 09:36:11



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **56322**

Well Name & No. Shadow # G-17 Test No. DST #1 Date 3-17-14
 Company American Warrior Elevation 2818 KB 2805 GL
 Address Po Box 399 Garden City KS 67846
 Co. Rep / Geo. Wyatt Rig Duke #9
 Location: Sec. 17 Twp. 28S Rge. 30W Co. Cray State KS

Interval Tested 5051-5125 Zone Tested Marrow Sand
 Anchor Length 74 Drill Pipe Run 4870 Mud Wt. 9.3
 Top Packer Depth 5047 Drill Collars Run 184 Vis 50
 Bottom Packer Depth 5051 Wt. Pipe Run 0 WL 8.0
 Total Depth 5125 Chlorides 2800 ppm System LCM 216

Blow Description IF-Strong Surface Blow Built to BOB in 22 sec Gas to Surface in 8 min
ISI-BOB
FF-Strong Surface Blow Built to BOB in 6 sec
FSI-BOB

Rec	Feet of	Sample	Gas	Oil	Water	Mud
31	00-01	00-01	12 %	7 %	81 %	0 %
443	5 min sample	MGC0	15 %	74 %	11 %	0 %
440	10 min sample	G-MCO	5 %	77 %	18 %	0 %
440	15 min sample	G-MCO	20 %	52 %	28 %	0 %
440	20 min sample	G-MCO	4 %	73 %	23 %	0 %
124		G-MCO	4 %	72 %	24 %	0 %

Rec Total 124 BHT 121 Gravity 25 API RW 72 ° F Chlorides 24 ppm

(A) Initial Hydrostatic 2502 Test 1350 T-On Location 14:10
 (B) First Initial Flow 492 Jars 250 T-Started 16:48
 (C) First Final Flow 486 Safety Joint 75 T-Open 19:18
 (D) Initial Shut-In 708 Circ Sub Dropped Bar 50 T-Pulled _____
 (E) Second Initial Flow 492 Hourly Standby _____ T-Out 2:26
 (F) Second Final Flow 532 Mileage 176 R/T 272.80 Comments 3118' of G-IP
 (G) Final Shut-In 694 Sampler _____
 (H) Final Hydrostatic 2439 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 Sub Total 0
 Total 1997.80
 MP/DST Disc't _____
 Sub Total 1997.80

Approved By _____ Our Representative Wyatt

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.

P.O. Box 1733 • Hays, Kansas 67601

Gas Volume Report

American Warrior
Operator

Shadow # 6-17
Well Name and No.

#1
DST No.

Min.	Insp of Water PSIG	Orifice Size	CF/D	Min.	Insp of Water PSIG	Orifice Size	CF/D
10	30	1	1,276,447	5	16	1	873,964
15	30	1	1,276,447	10	18	1	931,462
				15	18	1	931,462
				20	14	1	816,466

Remarks: