

DRILL STEM TEST REPORT

Prepared For: **American Warrior**
PO Box 399
Garden City, KS 67846

ATTN: Kurt Talbott / Jim M

Vokland #2-32

32-18s-9w Rice,KS

Start Date: 2012.12.28 @ 21:39:15

End Date: 2012.12.29 @ 05:56:30

Job Ticket #: 49646 DST #: 1

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

Printed: 2012.12.31 @ 09:37:08

American Warrior
32-18s-9w Rice,KS
Vokland #2-32
DST # 1
Conglomerate Sand/Ar
2012.12.28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior

32-18s-9w Rice, KS

PO Box 399
Garden City, KS 67846

Vokland #2-32

Job Ticket: 49646

DST#: 1

ATTN: Kurt Talbott / Jim M

Test Start: 2012.12.28 @ 21:39:15

GENERAL INFORMATION:

Formation: **Conglomerate Sand/Ar**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:46:15

Time Test Ended: 05:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Leal Cason

Unit No: 45

Interval: 3173.00 ft (KB) To 3240.00 ft (KB) (TVD)

Reference Elevations: 1720.00 ft (KB)

Total Depth: 3240.00 ft (KB) (TVD)

1712.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 400.86 psig @ 3174.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.28

End Date:

2012.12.29

Last Calib.:

2012.12.29

Start Time: 21:39:16

End Time:

05:56:30

Time On Btm:

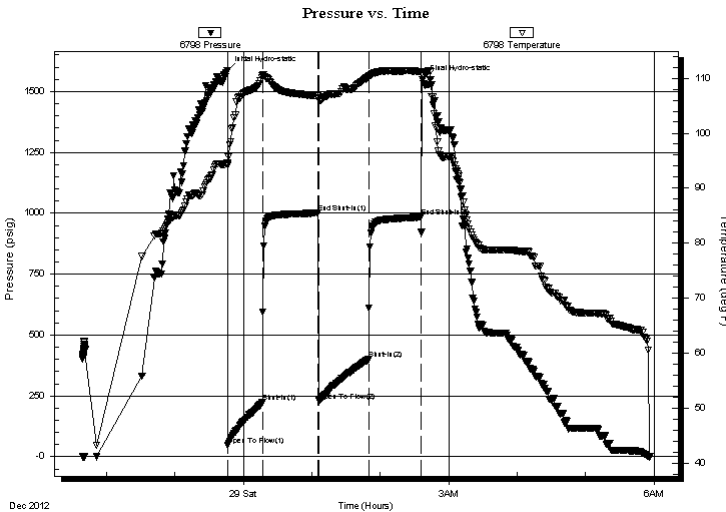
2012.12.28 @ 23:46:00

Time Off Btm:

2012.12.29 @ 02:37:00

TEST COMMENT: IF: Strong Blow , BOB in 5 minutes
IS: No Blow Back
FF: Strong Blow , BOB in 6 minutes
FS: No Blow Back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1586.86	94.55	Initial Hydro-static
1	47.10	94.15	Open To Flow (1)
31	222.82	110.37	Shut-In(1)
80	1001.08	106.73	End Shut-In(1)
81	230.09	106.27	Open To Flow (2)
124	400.86	110.22	Shut-In(2)
170	984.49	111.21	End Shut-In(2)
171	1547.91	111.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	235 GIP	0.00
186.00	OCM 15%O 85%M	2.61
372.00	GMCO 20%G 40%M 40%O	5.22
372.00	Gassy Oil 10%G 90%O	5.22

Gas Rates

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



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TOOL DIAGRAM

American Warrior

32-18s-9w Rice,KS

PO Box 399
Garden City, KS 67846

Vokland #2-32

Job Ticket: 49646

DST#: 1

ATTN: Kurt Talbott / Jim M

Test Start: 2012.12.28 @ 21:39:15

Tool Information

Drill Pipe:	Length: 3180.00 ft	Diameter: 3.80 inches	Volume: 44.61 bbl	Tool Weight:	2100.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	44000.00 lb
			<u>Total Volume: 44.61 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3173.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	67.00 ft				
Tool Length:	87.00 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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Shut In Tool	5.00			3158.00	
Hydraulic tool	5.00			3163.00	
Packer - Shale	5.00			3168.00	
Packer	5.00			3173.00	20.00 Bottom Of Top Packer
Stubb	1.00			3174.00	
Recorder	0.00	6798	Inside	3174.00	
Recorder	0.00	8367	Outside	3174.00	
Perforations	4.00			3178.00	
Change Over Sub	1.00			3179.00	
Drill Pipe	32.00			3211.00	
Change Over Sub	1.00			3212.00	
Perforations	25.00			3237.00	
Bullnose	3.00			3240.00	67.00 Anchor Tool

Total Tool Length: 87.00



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FLUID SUMMARY

American Warrior

32-18s-9w Rice,KS

PO Box 399
Garden City, KS 67846

Vokland #2-32

Job Ticket: 49646

DST#: 1

ATTN: Kurt Talbott / Jim M

Test Start: 2012.12.28 @ 21:39:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	235 GIP	0.000
186.00	OCM 15%O 85%M	2.609
372.00	GMCO 20%G 40%M 40%O	5.218
372.00	Gassy Oil 10%G 90%O	5.218

Total Length: 930.00 ft Total Volume: 13.045 bbl

Num Fluid Samples: 0

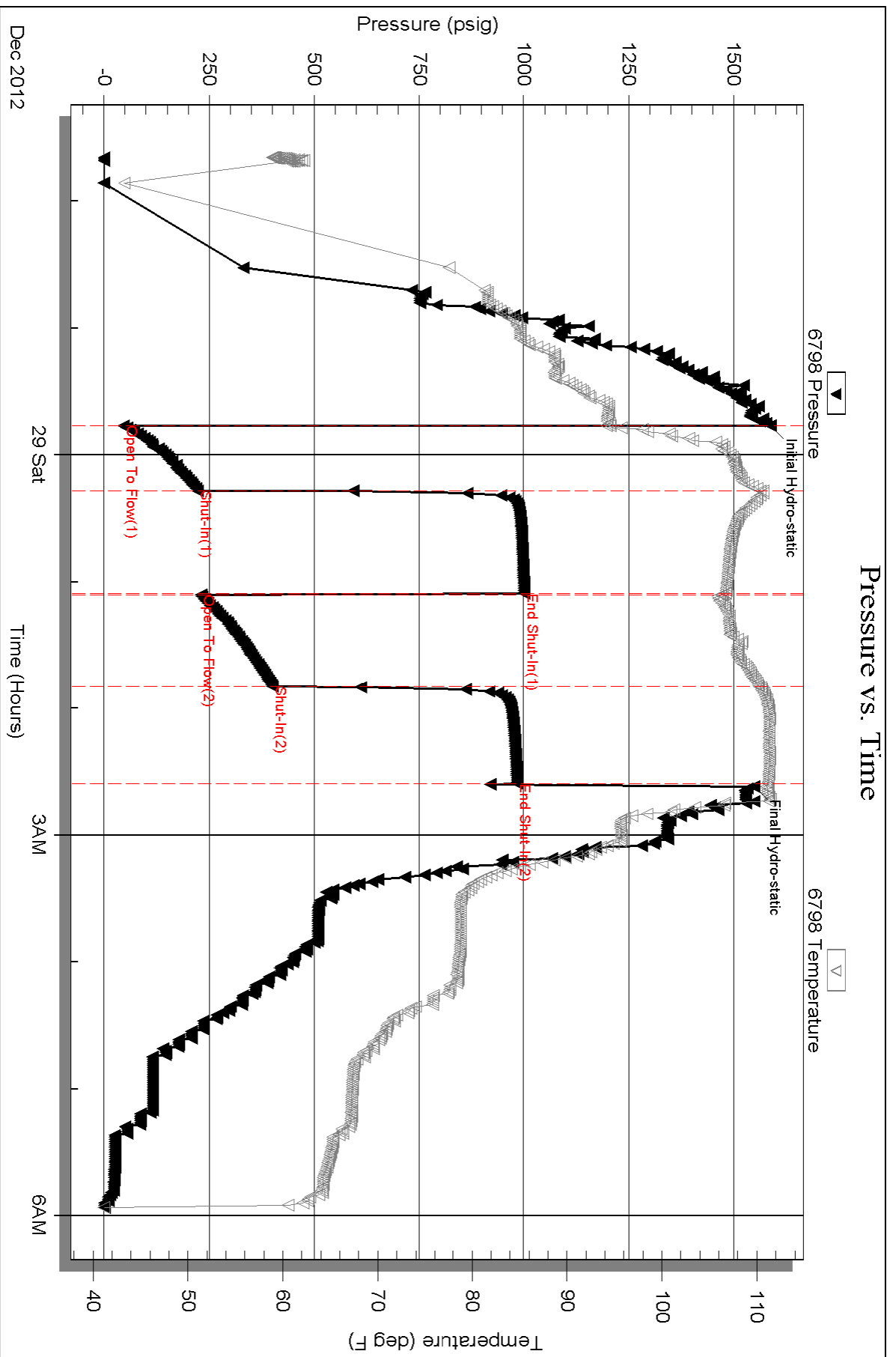
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity w as 30 @ 22 degrees

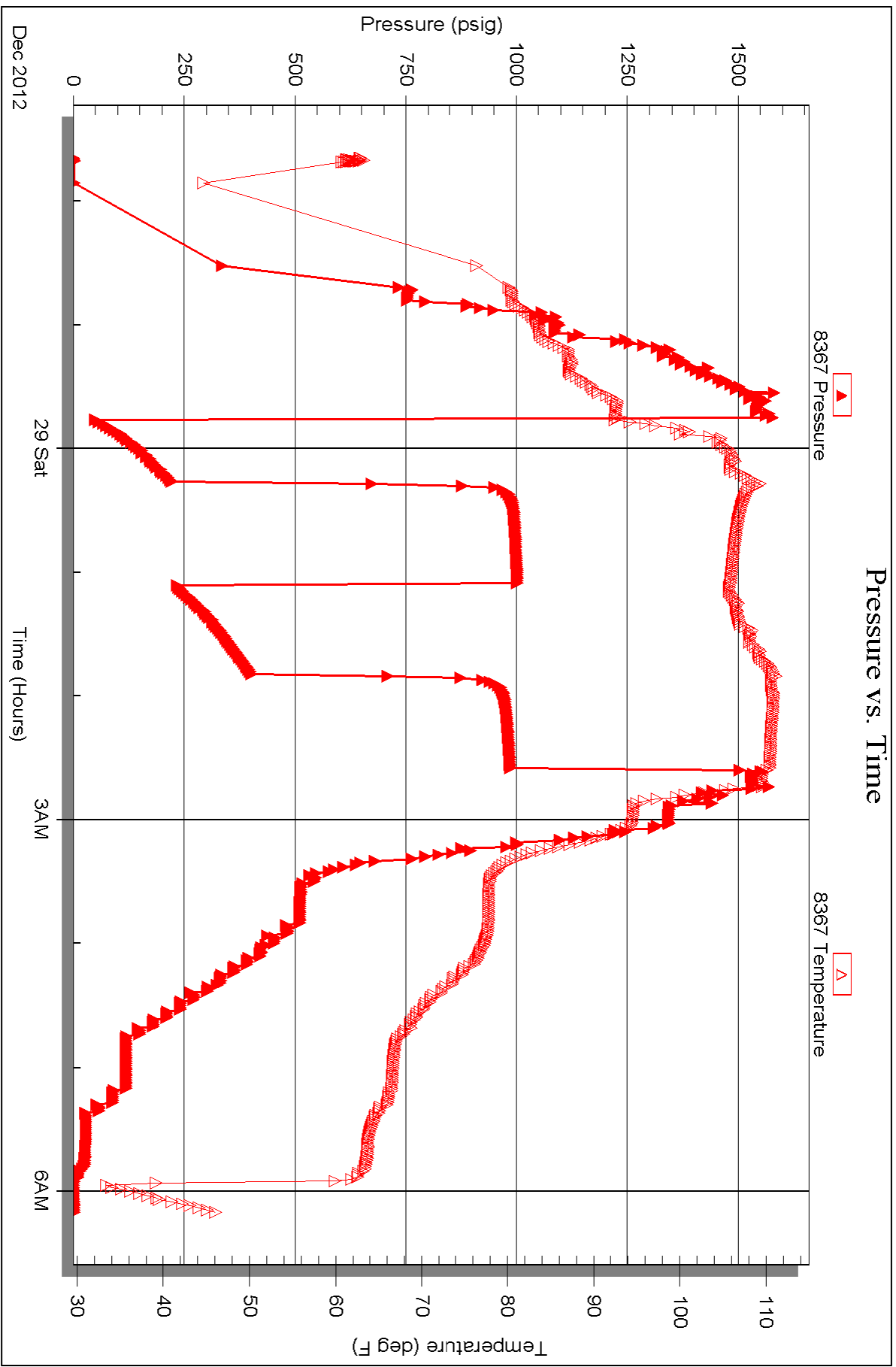


Serial #: 8367

Outside American Warrior

Vokland #2-32

DST Test Number: 1



Well Name & No. Vokland 2-32 Test No. 1 Date 12/28/12
 Company American warrior Elevation 1720 KB 1712 GL
 Address PO BOX 399 Garden City, KS 67846
 Co. Rep / Geo. Kurt Talbot / Jim Musgrove Rig Duke 8
 Location: Sec. 32 Twp. 18S Rge. 9W Co. Rice State KS

Interval Tested 3173 - 3240 Zone Tested conglomerate sand + Arbuckle
 Anchor Length 67 Drill Pipe Run 3180 Mud Wt. 9.1
 Top Packer Depth 3168 Drill Collars Run 0 Vis 43
 Bottom Packer Depth 3173 Wt. Pipe Run 0 WL 9.2
 Total Depth 3240 Chlorides 7600 ppm System LCM

Blow Description IF: Strong Blow, BOB in 5 minutes
ISI: NO Blow Back
FF: Strong Blow BOB in 6 minutes
FSI: NO Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>235</u>	<u>GTP</u>				
<u>372</u>	<u>Gassy oil</u>	<u>10</u>	<u>90</u>		
<u>372</u>	<u>GMCO</u>	<u>20</u>	<u>40</u>		<u>40</u>
<u>186</u>	<u>OCM</u>		<u>15</u>		<u>85</u>

Rec Total 930 BHT 111° Gravity 33.8 API RW N/C @ N/C °F Chlorides N/C ppm

(A) Initial Hydrostatic 1587 Test 1150 T-On Location 21:00
 (B) First Initial Flow 47 Jars T-Started 21:39
 (C) First Final Flow 223 Safety Joint T-Open 23:46
 (D) Initial Shut-In 1601 Circ Sub T-Pulled 02:35
 (E) Second Initial Flow 230 Hourly Standby T-Out 05:56
 (F) Second Final Flow 401 Mileage (150) 232.50 Comments
 (G) Final Shut-In 984 Sampler
 (H) Final Hydrostatic 1548 Straddle
 Shale Packer 250 Ruined Shale Packer
 Extra Packer Ruined Packer
 Extra Recorder Extra Copies
 Day Standby Sub Total 0
 Accessibility Total 1632.50
 Sub Total 1632.50 MP/DST Disc't

Approved By _____ Our Representative [Signature]

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