

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

P.O. Box 399
Garden City, KS 67846

ATTN: Scott Corsair

33-21s-12w Staff. KS

Alpers #2-33

Start Date: 2005.05.31 @ 04:34:29
End Date: 2005.05.31 @ 13:57:14
Job Ticket #: 20749 DST #: 1

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

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Alpers #2-33

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Job Ticket: 20749 **DST#: 1**

Test Start: 2005.05.31 @ 04:34:29

GENERAL INFORMATION:

Formation: **Upper Lansing, KC**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:53:14
Time Test Ended: 13:57:14

Test Type: Conventional Bottom Hole
Tester: Jake Fahrenbruch
Unit No: 19

Interval: 3283.00 ft (KB) To 3370.00 ft (KB) (TVD)
Total Depth: 3370.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

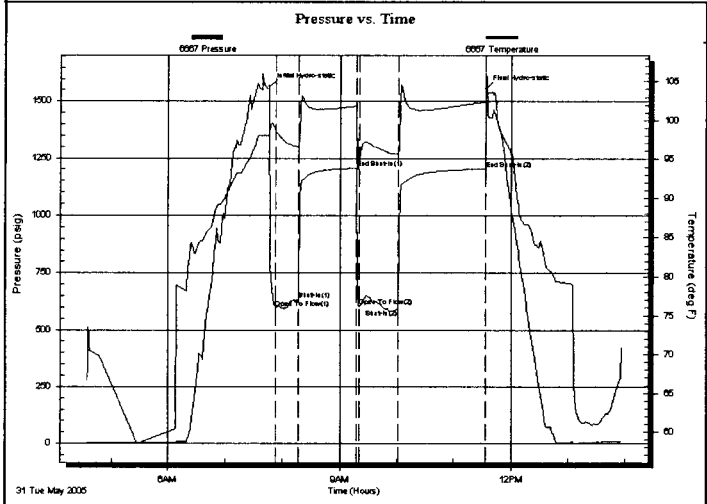
Reference Elevations: 1873.00 ft (KB)
1864.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 6667 **Inside**

Press@RunDepth: 590.56 psig @ 3284.00 ft (KB)
Start Date: 2005.05.31 End Date: 2005.05.31
Start Time: 04:34:34 End Time: 13:57:14

Capacity: 7000.00 psig
Last Calib.: 2005.05.31
Time On Btm: 2005.05.31 @ 07:46:29
Time Off Btm: 2005.05.31 @ 11:33:29

TEST COMMENT: IF: Very strong blow . BOB 15sec. GTS 1min. FTS 18min.
ISI: Bled off 20min. Blow back @2".
FF: Very strong blow . BOB Immediately. FTS 5min.
FSI: Bled off 20min. Blow back @3".



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1565.10	97.97	Initial Hydro-static
7	594.40	98.45	Open To Flow (1)
30	632.13	96.46	Shut-In(1)
92	1205.88	101.83	End Shut-In(1)
95	602.98	94.94	Open To Flow (2)
135	590.56	95.59	Shut-In(2)
227	1202.67	102.35	End Shut-In(2)
227	1557.70	106.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	Gsy MWCO 40%g12%m13%w 35%o	2.05
0.00	No check on RW or gravity.	0.00
0.00	0	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.88	93.00	2305.37
Last Gas Rate		0.00	
Max. Gas Rate	0.88	112.00	2713.21

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TOOL DIAGRAM

American Warrior

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Alpers #2-33

33-21s-12w Staff. KS

Job Ticket: 20749 **DST#: 1**

Test Start: 2005.05.31 @ 04:34:29

Tool Information

Drill Pipe:	Length:	3287.00 ft	Diameter:	3.75 inches	Volume:	44.90 bbl	Tool Weight:		21000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		64000.00 lb
					Total Volume:	44.90 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		24.00 ft					String Weight:	Initial	60000.00 lb
Depth to Top Packer:		3283.00 ft						Final	60000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		87.00 ft							
Tool Length:		107.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3268.00		
Hydraulic tool	5.00			3273.00		
Packer	5.00			3278.00	20.00	Bottom Of Top Packer
Packer	5.00			3283.00		
Stubb	1.00			3284.00		
Recorder	0.00	6667	Inside	3284.00		
Perforations	10.00			3294.00		
Change Over Sub	1.00			3295.00		
Blank Spacing	61.00			3356.00		
Change Over Sub	1.00			3357.00		
Perforations	10.00			3367.00		
Recorder	0.00	6074	Outside	3367.00		
Bullnose	3.00			3370.00	87.00	Bottom Packers & Anchor
Total Tool Length:	**107.00**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

P.O. Box 399
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ATTN: Scott Corsair

Alpers #2-33

33-21s-12w Staff. KS

Job Ticket: 20749 **DST#: 1**

Test Start: 2005.05.31 @ 04:34:29

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:	ppm
Viscosity:	52.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3200.00 ppm				
Filter Cake:	0.04 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Gsy MWCO 40%g12%m13%w 35%o	2.049
0.00	No check on RW or gravity.	0.000
0.00	0	0.000

Total Length: 150.00 ft Total Volume: 2.049 bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: Caraway Laboratory Location: Liberal, KS

Recovery Comments:

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

American Warrior

P.O. Box 399
Garden City, KS 67846

ATTN: Scott Corsair

Alpers #2-33

33-21s-12w Staff. KS

Job Ticket: 20749 **DST#: 1**

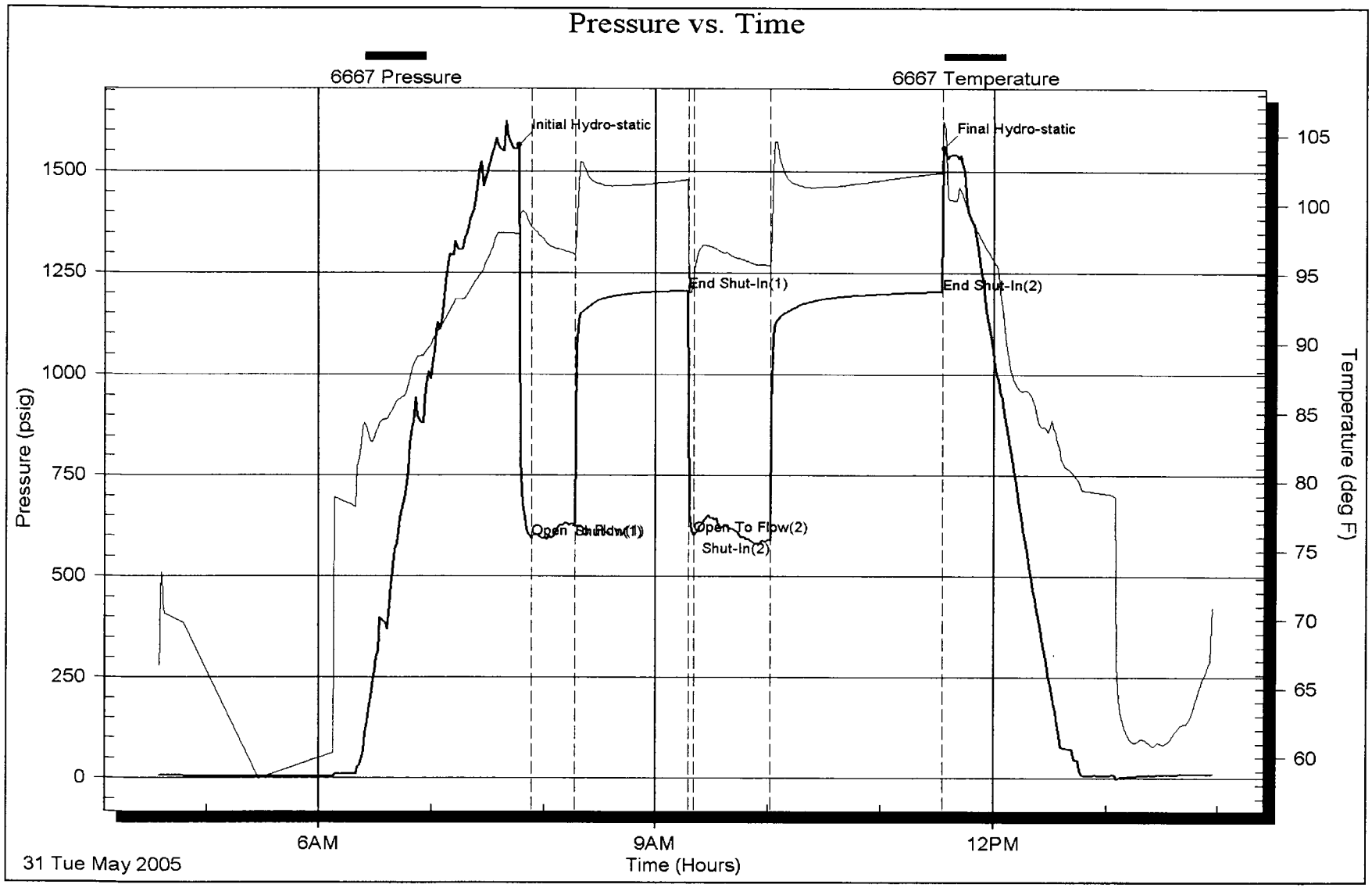
Test Start: 2005.05.31 @ 04:34:29

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
1	5	0.88	93.00	2305.37
1	5	0.88	93.00	2305.37
1	15	0.88	112.00	2713.21
2	5	1.00	60.00	2138.91
0	0	-999999.00	0.00	-999999.00


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
Pressure (psig)
Temperature (deg F)
1500
1250
1000
750
500
250
0
105
100
95
90
85
80
75
70
65
60
6AM
9AM
12PM
31 Tue May 2005
Time (Hours)

7584

TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

№ 20749

05/03

Test Ticket

Well Name & No. Alpers #2-33 Test No. 1 Date 5-31-05

Company American Warrior Inc. Zone Tested Upper Lansing KC

Address P.O. Box 399 Garden City, KS 67846-0399 Elevation 1873 KB 1864 GL

Co. Rep / Geo. Scott Corsair Cont. Duke Drlg Co. Rig #8 Est. Ft. of Pay — Por. — %

Location: Sec. 33 Twp. 21s Rge. 12w Co. Stafford State Kansas

No. of Copies — Disbtribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 3283-3370 Initial Str Wt./Lbs. 60000 Unseated Str Wt/Lbs. 60000

Anchor Length 87 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs 64000

Top Packer Depth 3278 Tool Weight 2100

Bottom Packer Depth 3283 Hole Size 7 7/8" YES Rubber Size 6 3/4" YES

Total Depth 3370 Wt. Pipe Run NONE Drill Collar Run NONE

Mud Wt. 8.6 LCM 0 Vis. 52 WL 8.0 Drill Pipe Size 4½" XH Ft. Run ~~87~~ 3287

Blow Description IF: Very Strong Blow. BOB 15sec. GTS 1min. FTS 18min.
ISI: Bled off 20 min. Blowback @ 2".
FF: Very Strong Blow. BOB Immediately. FTS 5min.
FSI: Bled off 20 min. Blowback @ 3".

Recovery - Total Feet 150 GIP AFFP Ft. in DC NONE Ft. in DP

Rec. 150 Feet of 40%g 60y MWCO 40 %gas 35 %oil 13 %water 12 %mud

Rec. — Feet of — %gas — %oil — %water — %mud

Rec. — Feet of — %gas — %oil — %water — %mud

Rec. — Feet of gas sample taken %gas — %oil — %water — %mud

Rec. — Feet of — %gas — %oil — %water — %mud

BHT 102.35 °F Gravity NC °API D @ — °F Corrected Gravity — °API

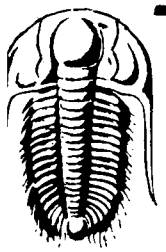
RW NC @ — °F Chlorides — ppm Recovery — Chlorides 3200 ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud		1565 PSI	Recorder No.	6667	Test	980
(B) First Initial Flow Pressure		594 PSI	(depth)	3284	Elec. Rec.	
(C) First Final Flow Pressure		632 PSI	Recorder No.	6074	Jars	
(D) Initial Shut-In Pressure		1206 PSI	(depth)	3367	Safety Jt.	
(E) Second Initial Flow Pressure		603 PSI	Recorder No.	—	Circ Sub	NC
(F) Second Final Flow Pressure		591 PSI	(depth)	—	Sampler	
(G) Final Shut-In Pressure		1203 PSI	**Initial Opening**	30	Straddle	
(Q) Final Hydrostatic Mud		1558 PSI	Initial Shut-In	60	Ext. Packer	
			Final Flow	45	Shale Packer	
			Final Shut-In	75	Mileage	76 76
			T-On Location	04:15	Sub Total:	1024
			T-Started	04:34	Std. By	1¼ ~~hrs~~ FS 37.50
			T-Open	07:46	Other	
			T-Pulled	11:33	Total:	$1061.50
			T-Out	13:30		

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.

Approved By —

Our Representative Jacob E. Schumacher



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

American Warrior (OPERATOR) | Alpers #2-33 (WELL NAME AND NO.) | 1 (DST NO.)

3283 - 3370

Initial Flow Upper Lansing Kansas City

Min.	Ins. of Water PSIG	Orifice Size	CF/D	Min.	Ins. of Water PSIG	Orifice Size	CF/D
5	93 psi	7/8"	2,305,000	5	60 psi	1"	2,139,000
10	108 psi	7/8"	2,627,000		Fluid to surface		
15	112 psi	7/8"	2,713,000				
18	Fluid to surface.						
	Gas sample taken.						

Remarks:

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

