

DRILL STEM TEST REPORT

Prepared For: **American Warrior**

P.O. Box 399
Garden City, KS 67846

ATTN: Al Downing

11-32s-15w

Alexander #2-11

Start Date: 2005.04.28 @ 18:59:14

End Date: 2005.04.29 @ 03:29:14

Job Ticket #: 21414 DST #: 1

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

American Warrior
P.O. Box 399
Garden City, KS 67846
ATTN: Al Downing

Alexander #2-11

11-32s-15w

Job Ticket: 21414

DST#: 1

Test Start: 2005.04.28 @ 18:59:14

GENERAL INFORMATION:

Formation: **Miss.**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 21:37:14

Time Test Ended: 03:29:14

Test Type: Conventional Bottom Hole

Tester: Davy Cline

Unit No: 24

Interval: **4821.00 ft (KB) To 4866.00 ft (KB) (TVD)**

Total Depth: **4866.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2013.00 ft (KB)**

2000.00 ft (CF)

KB to GR/CF: **13.00 ft**

Serial #: 6753

Inside

Press@RunDepth: **45.10 psig @ 4826.00 ft (KB)**

Start Date: **2005.04.28**

End Date: **2005.04.29**

Capacity: **7000.00 psig**

Last Calib.: **2005.04.29**

Start Time: **18:59:15**

End Time: **03:29:14**

Time On Btm: **2005.04.28 @ 21:35:44**

Time Off Btm: **2005.04.29 @ 00:45:59**

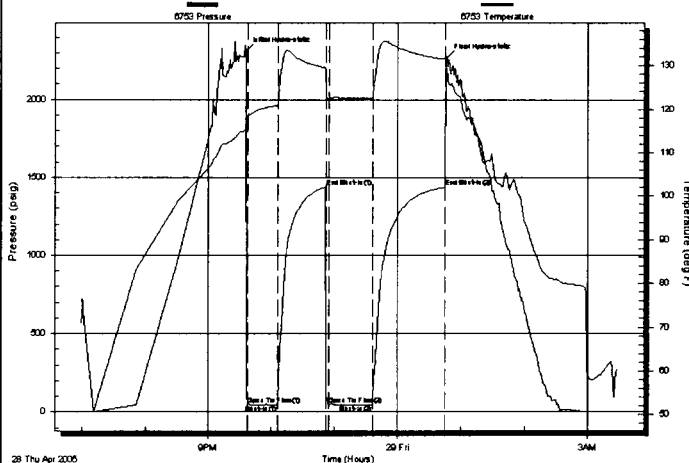
TEST COMMENT: IF: Strong blow. BOB 30 sec. GTS 11 min. Gauged gas.

IS: Bled off. No blow back.

FF: Strong blow. BOB immediately. Gauged gas

FST: Bled off. No blow back.

Pressure vs. Time



PRESSURE SUMMARY

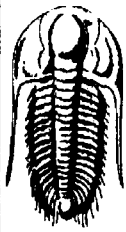
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2311.57	115.51	Initial Hydro-static
2	45.45	116.40	Open To Flow (1)
31	44.00	120.85	Shut-In(1)
76	1438.27	129.49	End Shut-In(1)
79	46.81	122.63	Open To Flow (2)
121	45.10	122.47	Shut-In(2)
189	1436.10	131.44	End Shut-In(2)
191	2269.74	128.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GCM 100% m	0.97
0.00	Gas in all fluid free pipe.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	2.75	115.69
Last Gas Rate	0.50	2.75	115.69
Max. Gas Rate	0.50	9.50	161.22



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DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior

Alexander #2-11

P.O. Box 399
Garden City, KS 67846

11-32s-15w

Job Ticket: 21414

DST#: 1

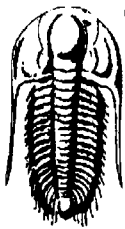
ATTN: Al Downing

Test Start: 2005.04.28 @ 18:59:14

Tool Information

Drill Pipe:	Length: 4613.00 ft	Diameter: 3.25 inches	Volume: 47.33 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: 20000.00 lb
Drill Collar:	Length: 185.00 ft	Diameter: 2.88 inches	Volume: 1.49 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 48.82 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	4821.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	73.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4794.00	
Shut In Tool	5.00			4799.00	
Hydraulic tool	5.00			4804.00	
Jars	5.00			4809.00	
Safety Joint	2.00			4811.00	
Packer	5.00			4816.00	28.00 Bottom Of Top Packer
Packer	5.00			4821.00	
Stubb	1.00			4822.00	
Perforations	3.00			4825.00	
Change Over Sub	1.00			4826.00	
Recorder	0.00	6753	Inside	4826.00	
Blank Spacing	30.00			4856.00	
Change Over Sub	1.00			4857.00	
Perforations	6.00			4863.00	
Recorder	0.00	13400	Outside	4863.00	
Bullnose	3.00			4866.00	45.00 Bottom Packers & Anchor
Total Tool Length:	73.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior

Alexander #2-11

P.O. Box 399
Garden City, KS 67846

11-32s-15w

Job Ticket: 21414

DST#: 1

ATTN: Al Downing

Test Start: 2005.04.28 @ 18:59:14

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: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GCM 100% m	0.967
0.00	Gas in all fluid free pipe.	0.000

Total Length: 120.00 ft

Total Volume: 0.967 bbl

Num Fluid Samples: 0

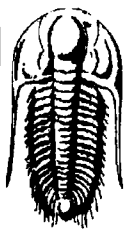
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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DRILL STEM TEST REPORT

GAS RATES

American Warrior

Alexander #2-11

P.O. Box 399
Garden City, KS 67846

11-32s-15w

Job Ticket: 21414

DST#: 1

ATTN: Al Downing

Test Start: 2005.04.28 @ 18:59:14

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	15	0.50	2.75	115.69
1	20	0.50	2.75	115.69
1	30	0.50	2.75	115.69
2	5	0.50	9.50	161.22
2	10	0.50	6.00	137.61
2	15	0.50	3.50	120.75
2	20	0.50	2.75	115.69
2	30	0.50	2.75	115.69
2	40	0.50	2.75	115.69
2	50	0.50	2.75	115.69
2	60	0.50	2.75	115.69

Serial #: 6753

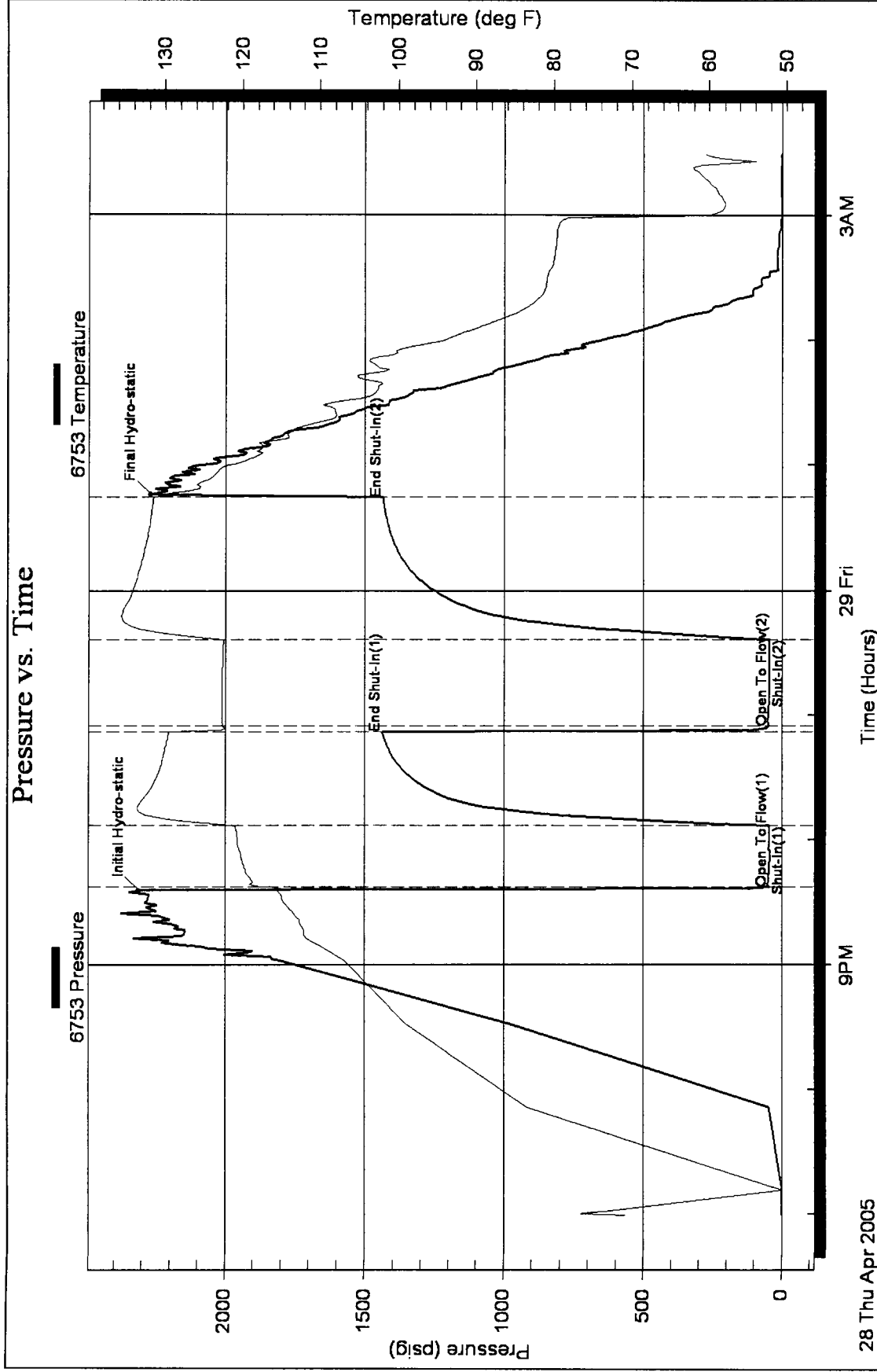
Inside

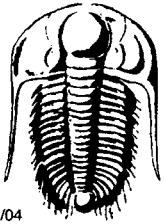
American Warrior

11-32s-15w

DST Test Number: 1

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

No 21414

TW
7425

Test Ticket

Well Name & No. Alexander # 2-11 Test No. 1 Date 4-28-05
 Company American Warrior Zone Tested Miss.
 Address P.O. Box 399 Garden City, KS 67846 Elevation 2013 KB 2000 GL
 Co. Rep / Geo. Alan Downing Cont. Duke Drig. #7 Est. Ft. of Pay — Por. — %
 Location: Sec. 11 Twp. 32s Rge. 15w Co. Barber State KS
 No. of Copies 5 Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 4821 - 4866 Initial Str Wt./Lbs. 79000 Unseated Str Wt./Lbs. 79000
 Anchor Length 45 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 80000
 Top Packer Depth 4816 Tool Weight 2100
 Bottom Packer Depth 4821 Hole Size 7 7/8" ✓ Rubber Size 6 3/4" ✓
 Total Depth 4866 Wt. Pipe Run — Drill Collar Run 185
 Mud Wt. 9.1 LCM — Vis. 45 WL 4.6 Drill Pipe Size 4 1/2" XH Ft. Run 4613
 Blow Description IF: Strong blow. BOB 30 sec. GTS 11 min. Gauged gas.
ISI: Bled off. No blow back.
FF: Strong blow. BOB Immediately. Gauged Gas.
FSI: Bled off. No blow back
 Recovery - Total Feet 120 GIP yes Ft. in DC 120 Ft. in DP 0
 Rec. 120 Feet of GCM %gas %oil %water 100 %mud
 Rec. — Feet of — %gas %oil %water %mud
 Rec. — Feet of — %gas %oil %water %mud
 Rec. — Feet of — %gas %oil %water %mud
 Rec. — Feet of — %gas %oil %water %mud
 BHT 131 °F Gravity — °API D @ — °F Corrected Gravity — °API
 RW — @ — °F Chlorides — ppm Recovery — Chlorides 5000 ppm System

AK-1	Alpine	Recorder No.	6753	Test	✓	1050
(A) Initial Hydrostatic Mud	2312 PSI	(depth)	4826	Jars	✓	200
(B) First Initial Flow Pressure	45 PSI	Recorder No.	13400	Safety Jt.	✓	50
(C) First Final Flow Pressure	44 PSI	(depth)	4863	Circ Sub	✓	NC
(D) Initial Shut-In Pressure	1438 PSI	Recorder No.	—	Sampler	—	—
(E) Second Initial Flow Pressure	47 PSI	(depth)	—	Straddle	—	—
(F) Second Final Flow Pressure	45 PSI	Initial Opening	30	Ext. Packer	—	—
(G) Final Shut-In Pressure	1436 PSI	Initial Shut-In	45	Shale Packer	—	—
(Q) Final Hydrostatic Mud	2270 PSI	Final Flow	45	Ruined Packer	—	76
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		T-On Location	18:00	Sub Total:	—	1376
		T-Started	18:59	Std. By	1/2	15
		T-Open	21:37	Other	—	—
		T-Pulled	00:35	Total:	—	\$1391
		T-Out	03:29		—	—

Approved By Danny Jones

Our Representative Danny Jones

CHART PAGE

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

