

15-185-23123

16-21s-13w

CONFIDENTIAL

MAY 06 2004
From
Confidenti

WELL NAME

Grow A 2-16

COMPANY

American Warrior Inc.

LOCATION

16-21s-13w

Stafford co Kansas

DATE

5/7/01

ORIGINAL

Grow 'A' 2-16

KCC

AUG 01 2001

CONFIDENTIAL

RECEIVED
KANSAS CORPORATION

AUG 02 2001

CONSERVATION

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior Inc.

DATE 5-2-01

WELL NAME: Grow A 2-16

KB 1894.00 ft

TICKET NO: 14339

DST #1

LOCATION : 16-21s-13w Stafford co KS

GR 1886.00 ft

FORMATION: Lansing E-F

INTERVAL : 383.00 To 3415.00 ft

TD 3415.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13308	13308				PF Fr. 0930 to 1000 hr
SI 45 Range(Psi)	4700.0	4700.0	0.0	0.0	0.0	IS Fr. 1000 to 1045 hr
SF 30 Clock(hrs)	12	12				SF Fr. 1045 to 1115 hr
FS 45 Depth(ft)	3412.0	3412.0	0.0	0.0	0.0	FS Fr. 1115 to 1200 hr

	Field	1	2	3	4	
A. Init Hydro	1654.0	1658.0	0.0	0.0	0.0	T STARTED 0730 hr
B. First Flow	73.0	74.0	0.0	0.0	0.0	T ON BOTM 0925 hr
B1. Final Flow	97.0	82.0	0.0	0.0	0.0	T OPEN 0930 hr
C. In Shut-in	713.0	714.0	0.0	0.0	0.0	T PULLED 1200 hr
D. Init Flow	121.0	118.0	0.0	0.0	0.0	T OUT 1400 hr
E. Final Flow	145.0	128.0	0.0	0.0	0.0	
F. Fl Shut-in	690.0	694.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1630.0	1651.0	0.0	0.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	I	I				Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 35000.00 lbs
						Initial Str Wt 32000.00 lbs
						Unseated Str Wt 33000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 31.00 ft
						D.P. Length 3354.00 ft

RECOVERY

Tot Fluid 250.00 ft of 31.00 ft in DC and 219.00 ft in DP
 1008.00 ft of Gas in pipe
 250.00 ft of Gassy mud & water cut oil
 0.00 ft of 20% gas 55% oil 15% water 10% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

ORIGINAL

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 5 minutes.
 Initial Shut-In:
 2"
 Final Flow:
 Strong bottom of bucket in 3 minutes.
 Final Shut-In:
 9"

CONFIDENTIAL

KCC

AUG 01 2001

CONFIDENTIAL

SAMPLES:
 SENT TO:

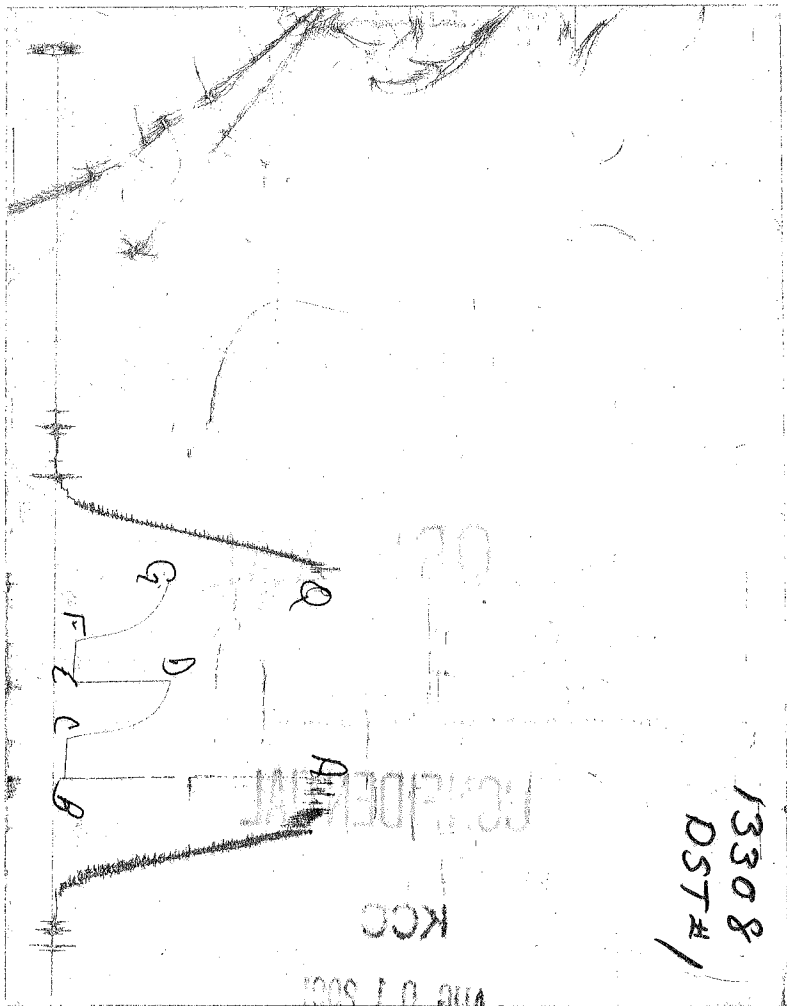
MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/cf
Vis.	46.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	John Schmidt
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 14339

Test Ticket

Well Name & No.	<u>GROW #A 2-16</u>	Test No.	<u>#1</u>	Date	<u>5-2-01</u>		
Company	<u>AMERICAN WARRIOR, INC.</u>	Zone Tested	<u>LANS, E-F</u>				
Address	<u>P.O. BOX 399 GARDEN CITY, KS. 67846</u>		Elevation	<u>1894</u>	KB <u>1886</u> GL		
Co. Rep / Geo.	<u>RON NELSON</u>	Cont.	<u>DISCOVERY #2</u>	Est. Ft. of Pay	___ Por. ___ %		
Location: Sec.	<u>16</u>	Twp.	<u>21 S</u>	Rge.	<u>13 W</u> Co. <u>STAFFORD</u> State <u>KS</u>		
No. of Copies	___	Distribution Sheet (Y, N)	___	Turnkey (Y, N)	___	Evaluation (Y, N)	___

Interval Tested	<u>3383 TO 3415</u>	Initial Str Wt./Lbs.	<u>32,000</u>	Unseated Str Wt./Lbs.	<u>33,000</u>
Anchor Length	<u>32'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>35,000</u>
Top Packer Depth	<u>3378</u>	Tool Weight	<u>2,500</u>		
Bottom Packer Depth	<u>3383</u>	Hole Size — 7 7/8"	<input checked="" type="checkbox"/>	Rubber Size — 6 3/4"	<input checked="" type="checkbox"/>
Total Depth	<u>3415</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>31</u>
Mud Wt.	<u>8.9</u> LCM <u>#1</u> Vis. <u>46</u> WL <u>9.6</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3354</u>
Blow Description	<u>IF-STRONG BLOW B.O.B. IN 5 MIN</u>			<u>FSI- 2" IN</u>	
	<u>F.F-STRONG B.O.B. 3 MIN.</u>			<u>FSI- 9" IN</u>	

ALPINE STOP RUNNING

Recovery — Total Feet	<u>250</u>	GIP	<u>1008</u>	Ft. in DC	<u>31</u>	Ft. in DP	<u>219</u>				
Rec.	<u>250</u>	Feet Of	<u>G.M.W.C. 014</u>	%gas	<u>55</u>	%oil	<u>15</u>	%water	<u>10</u>	%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		°F Gravity		°API D@		°F Corrected Gravity		°API			
RW		@		°F Chlorides		ppm Recovery		Chlorides		ppm System	

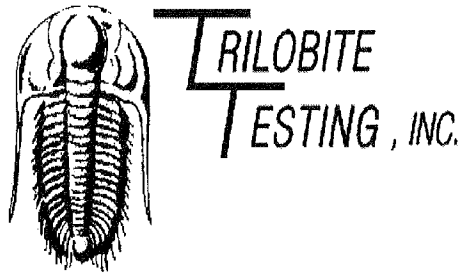
(A) Initial Hydrostatic Mud	<u>1654</u>	AK-1	Alpine	PSI Recorder No.	<u>3227</u>	T-On Location	<u>06:00</u>
(B) First Initial Flow Pressure	<u>73</u>			PSI (depth)	<u>3384</u>	T-Started	<u>07:30</u>
(C) First Final Flow Pressure	<u>97</u>			PSI Recorder No.	<u>13308</u>	T-Open	<u>09:30</u>
(D) Initial Shut-In Pressure	<u>713</u>			PSI (depth)	<u>3412</u>	T-Pulled	<u>12:00</u>
(E) Second Initial Flow Pressure	<u>121</u>			PSI Recorder No.		T-Out	<u>14:00</u>
(F) Second Final Flow Pressure	<u>145</u>			PSI (depth)		T-Off Location	<u>14:30</u>
(G) Final Shut-in Pressure	<u>690</u>			PSI Initial Opening	<u>30</u>	Test	<u>BOTTOM HOLE 700</u>
(Q) Final Hydrostatic Mud	<u>1630</u>			PSI Initial Shut-in	<u>45</u>	Jars	
			Final Flow	<u>30</u>	Safety Joint		
			Final Shut-in	<u>45</u>	Straddle		

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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 John J. Schmidt

Elec. Rec. 150
Mileage 40
Other _____
TOTAL PRICE \$ 890



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Cecil O'Brate

16-21s-13w Stafford

Grow-A-#2-16

Start Date: 2001.05.02 @ 20:30:00

End Date: 2001.05.03 @ 04:00:00

Job Ticket #: 14340 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

American Warrior Inc.

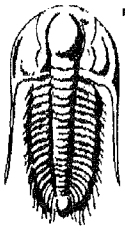
Grow-A-#2-16

16-21s-13w Stafford

DST # 2

Lansing G-H

2001.05.02



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

American Warrior Inc.
 PO Box 399
 Garden City, KS 67846
 ATTN: Cecil O'Brate

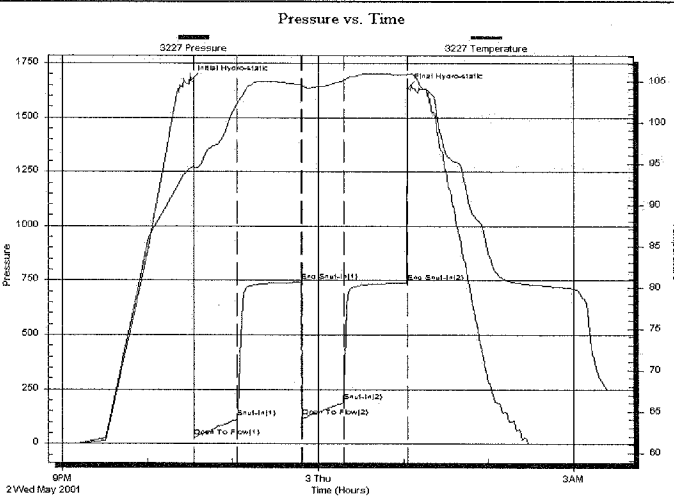
Grow-A-#2-16
16-21s-13w Stafford
 Job Ticket: 14340 **DST#: 2**
 Test Start: 2001.05.02 @ 20:30:00

GENERAL INFORMATION:

Formation: **Lansing G-H**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole
 Time Tool Opened: 22:32:52
 Tester: John Schmidt
 Time Test Ended: 04:00:00
 Unit No: 18
 Interval: **3410.00 ft (KB) To 3465.00 ft (KB) (TVD)**
 Reference Elevations: 1894.00 ft (KB)
 Total Depth: 3415.00 ft (KB) (TVD) 1886.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 3227 Inside
 Press@RunDepth: 189.36 psig @ 3409.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.05.02 End Date: 2001.05.03 Last Calib.: 2001.05.03
 Start Time: 21:08:39 End Time: 03:23:22 Time On Btm: 2001.05.02 @ 22:30:22
 Time Off Btm: 2001.05.03 @ 01:03:07

TEST COMMENT: IF-Strong BOB in 6 min.
 FF-Strong BOB in 6min.



PRESSURE SUMMARY

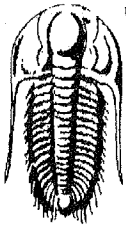
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1672.14	94.40	Initial Hydro-static
3	27.62	94.45	Open To Flow (1)
33	113.90	102.24	Shut-In(1)
78	741.39	104.57	End Shut-In(1)
79	119.51	104.50	Open To Flow (2)
108	189.36	105.05	Shut-In(2)
153	738.99	105.73	End Shut-In(2)
153	1632.97	105.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	Salt Water	2.24
185.00	GOWC-Mud 15%Gas 8%Oil 7%Water 70%2.60	
252.00	Gas in pipe	3.53

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.
PO Box 399
Garden City, KS 67846

ATTN: Cecil O'Brate

Grow-A-#2-16
16-21s-13w Stafford
Job Ticket: 14340 **DST#: 2**
Test Start: 2001.05.02 @ 20:30:00

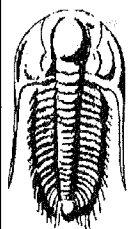
Tool Information

Drill Pipe:	Length: 3385.00 ft	Diameter: 3.80 inches	Volume: 47.48 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 47.63 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3405.00 ft			Final 33000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.02 ft			
Tool Length:	75.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3386.00	
S.I. Tool	5.00			3391.00	
HMV	5.00			3396.00	
Packer	4.00			3400.00	20.00 Bottom Of Top Packer
Packer	5.00			3405.00	
Stubb	1.00			3406.00	
Perforations	2.00			3408.00	
C.O. Sub	1.00			3409.00	
Recorder	0.01	3227	Inside	3409.01	
Blank Spacing	32.00			3441.01	
C.O. Sub	1.00			3442.01	
Perforations	15.00			3457.01	
Recorder	0.01	13308	Outside	3457.02	
Bullnose	3.00			3460.02	55.02 Bottom Packers & Anchor

Total Tool Length: 75.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Grow-A-#2-16

PO Box 399
Garden City, KS 67846

16-21s-13w Stafford

Job Ticket: 14340

DST#: 2

ATTN: Cecil O'Brate

Test Start: 2001.05.02 @ 20:30:00

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:

30000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.53 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	Salt Water	2.243
185.00	GOWC-Mud 15%Gas 8%Oil 7%Water 70%Mu	2.595
252.00	Gas in pipe	3.535

Total Length: 617.00 ft

Total Volume: 8.373 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3227

Inside

American Warrior Inc.

16-21s-13w Stafford

DST Test Number: 2

Pressure vs. Time

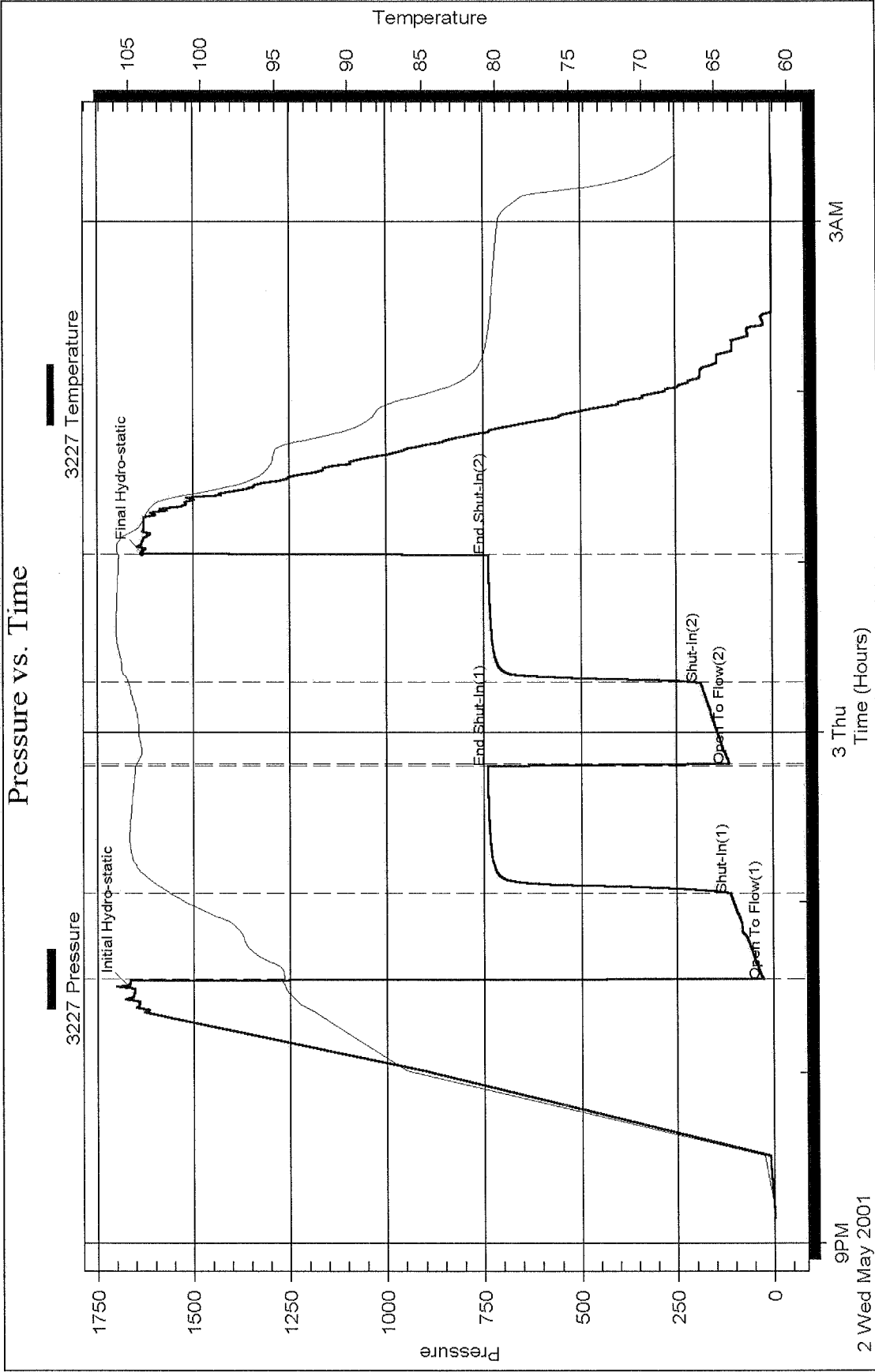
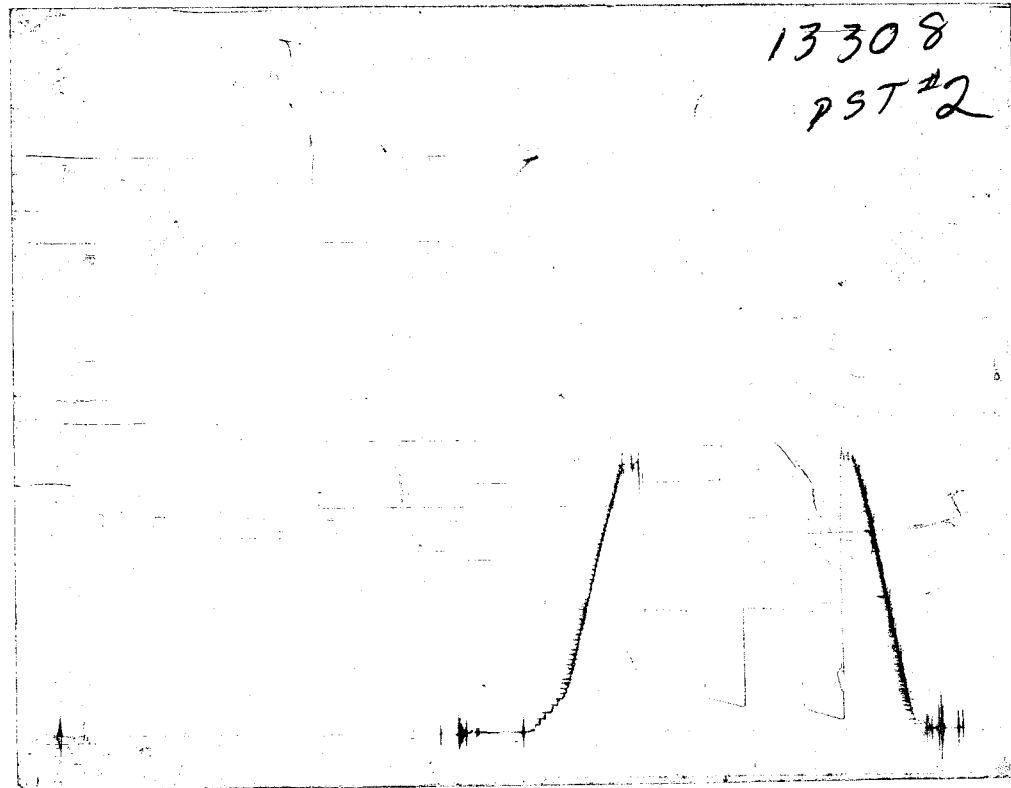


CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 14340

Test Ticket

Well Name & No.	<u>GROW A-#2-16</u>	Test No.	<u>#2</u>	Date	<u>5-2-01</u>		
Company	<u>AMERICAN WARRIOR, INC.</u>	Zone Tested	<u>LANS. B-H</u>				
Address	<u>P.O. BOX 399 GARDEN CITY, KS 67846</u>	Elevation	<u>1894</u>	KB	<u>1886</u> GL		
Co. Rep / Geo.	<u>RON NELSON</u>	Cont.	<u>DISCOVERY #2</u>	Est. Ft. of Pay	___ Por. ___ %		
Location: Sec.	<u>16</u>	Twp.	<u>21S</u>	Rge.	<u>13W</u> Co. <u>STAFFORD</u> State <u>KS</u>		
No. of Copies	___	Distribution Sheet (Y, N)	___	Turnkey (Y, N)	___	Evaluation (Y, N)	___

Interval Tested	<u>3410 TO 3465</u>	Initial Str Wt./Lbs.	<u>32,000</u>	Unseated Str Wt./Lbs.	<u>33,000</u>
Anchor Length	<u>55</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>40,000</u>
Top Packer Depth	<u>3405</u>	Tool Weight	<u>3,000</u>		
Bottom Packer Depth	<u>3410</u>	Hole Size — 7 7/8"	<input checked="" type="checkbox"/>	Rubber Size — 6 3/4"	<input checked="" type="checkbox"/>
Total Depth	<u>3465</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>31</u>
Mud Wt.	<u>9.1</u> LCM <u>#1</u> Vis. <u>43</u> WL <u>9.6</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>3415</u>
Blow Description	<u>F.F. STRONG BOB IN 6 MIN.</u>		<u>FST 1/4"</u>		
	<u>F.F. STRONG BOB IN 6 MIN.</u>		<u>FST 1"</u>		

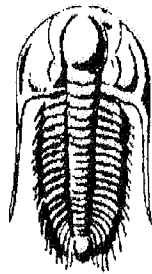
Recovery — Total Feet	<u>GIP 252'</u>	Ft. in DC	___	Ft. in DP	___			
Rec. <u>185</u>	Feet Of <u>G.O.W.D. MUD</u>	15 %gas	8 %oil	7 %water	70 %mud			
Rec. <u>180</u>	Feet Of <u>SALT WATER</u>	%gas	%oil	%water	%mud			
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud			
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud			
Rec. ___	Feet Of ___	%gas	%oil	%water	%mud			
BHT <u>105</u>	°F Gravity	___	°API D@	___	°F Corrected Gravity	___	°API	
RW <u>126</u>	@ <u>62</u>	°F Chlorides	<u>30,000</u>	ppm Recovery	___	Chlorides	___	ppm System

(A) Initial Hydrostatic Mud	<u>1672</u> PSI	Recorder No.	<u>3227</u>	T-On Location	<u>20:30</u>
(B) First Initial Flow Pressure	<u>27</u> PSI	(depth)	<u>3414</u>	T-Started	<u>21:30</u>
(C) First Final Flow Pressure	<u>113</u> PSI	Recorder No.	<u>13308</u>	T-Open	<u>22:28</u>
(D) Initial Shut-In Pressure	<u>741</u> PSI	(depth)	<u>3462</u>	T-Pulled	<u>00:58</u>
(E) Second Initial Flow Pressure	<u>119</u> PSI	Recorder No.	___	T-Out	<u>03:15</u>
(F) Second Final Flow Pressure	<u>189</u> PSI	(depth)	___	T-Off Location	<u>04:00</u>
(G) Final Shut-in Pressure	<u>738</u> PSI	Initial Opening	<u>30</u>	Test	<u>BOTTOM HOLE</u>
(Q) Final Hydrostatic Mud	<u>1632</u> PSI	Initial Shut-in	<u>45</u>	Jars	___
		Final Flow	<u>30</u>	Safety Joint	___
		Final Shut-in	<u>45</u>	Straddle	___

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Approved By _____
Our Representative John J. Schmidt

Extra Packer _____
Elec. Rec. ✓ 150
Mileage 40
Other _____
TOTAL PRICE \$ 890



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Cecil O'Brate

16-21s-13w Stafford

Grow-A-#2-16

Start Date: 2001.05.02 @ 09:30:00

End Date: 2001.05.03 @ 17:00:00

Job Ticket #: 14341 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

American Warrior Inc.

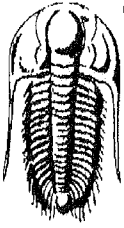
Grow-A-#2-16

16-21s-13w Stafford

DST # 3

Lansing--1

2001.05.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc.
PO Box 399
Garden City, KS 67846
ATTN: Cecil O'Brate

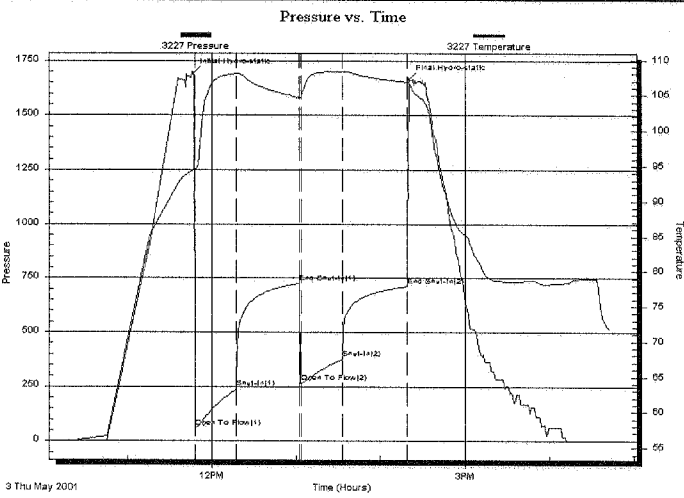
Grow-A-#2-16
16-21s-13w Stafford
Job Ticket: 14341 **DST#: 3**
Test Start: 2001.05.02 @ 09:30:00

GENERAL INFORMATION:

Formation: **Lansing-- I**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:47:58
 Time Test Ended: 17:00:00
 Test Type: Conventional Bottom Hole
 Tester: John Schmidt
 Unit No: 18
 Interval: **3468.00 ft (KB) To 3485.00 ft (KB) (TVD)**
 Reference Elevations: 1894.00 ft (KB)
 Total Depth: 3415.00 ft (KB) (TVD) 1886.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 3227 Inside
 Press@RunDepth: 374.92 psig @ 3464.01 ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.05.03 End Date: 2001.05.03 Last Calib.: 2001.05.03
 Start Time: 10:23:30 End Time: 16:43:13 Time On Btm: 2001.05.03 @ 11:46:28
 Time Off Btm: 2001.05.03 @ 14:20:28

TEST COMMENT: IF-Strong BOB in 2 min ISI-3"
 FF-Strong BOB in 4 min FSI-1.5"



PRESSURE SUMMARY

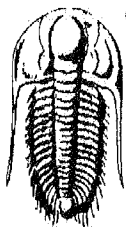
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1690.34	94.46	Initial Hydro-static
2	60.15	94.52	Open To Flow (1)
31	238.85	108.02	Shut-In(1)
76	724.99	104.69	End Shut-In(1)
77	264.59	104.65	Open To Flow (2)
107	374.92	108.33	Shut-In(2)
153	711.41	106.85	End Shut-In(2)
154	1666.17	106.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
750.00	Gassy water	10.24
340.00	Gas in pipe	4.77

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

Grow-A-#2-16

PO Box 399
Garden City, KS 67846

16-21s-13w Stafford

Job Ticket: 14341

DST#: 3

ATTN: Cecil O'Brate

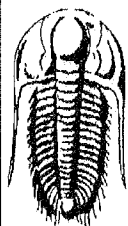
Test Start: 2001.05.02 @ 09:30:00

Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 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: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 38000.00 lb
			<u>Total Volume: 48.49 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 32000.00 lb
Depth to Top Packer:	3463.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.02 ft			
Tool Length:	37.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3444.00	
S.I. Tool	5.00			3449.00	
HMV	5.00			3454.00	
Packer	4.00			3458.00	20.00 Bottom Of Top Packer
Packer	5.00			3463.00	
Stubb	1.00			3464.00	
Recorder	0.01	3227	Inside	3464.01	
Perforations	13.00			3477.01	
Recorder	0.01	13308	Outside	3477.02	
Bullnose	3.00			3480.02	17.02 Bottom Packers & Anchor
Total Tool Length:	37.02				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Grow-A-#2-16

PO Box 399
Garden City, KS 67846

16-21s-13w Stafford

Job Ticket: 14341

DST#: 3

ATTN: Cecil O'Brate

Test Start: 2001.05.02 @ 09:30:00

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:

58000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.53 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
750.00	Gassy water	10.238
340.00	Gas in pipe	4.769

Total Length: 1090.00 ft

Total Volume: 15.007 bbl

Num Fluid Samples: 0

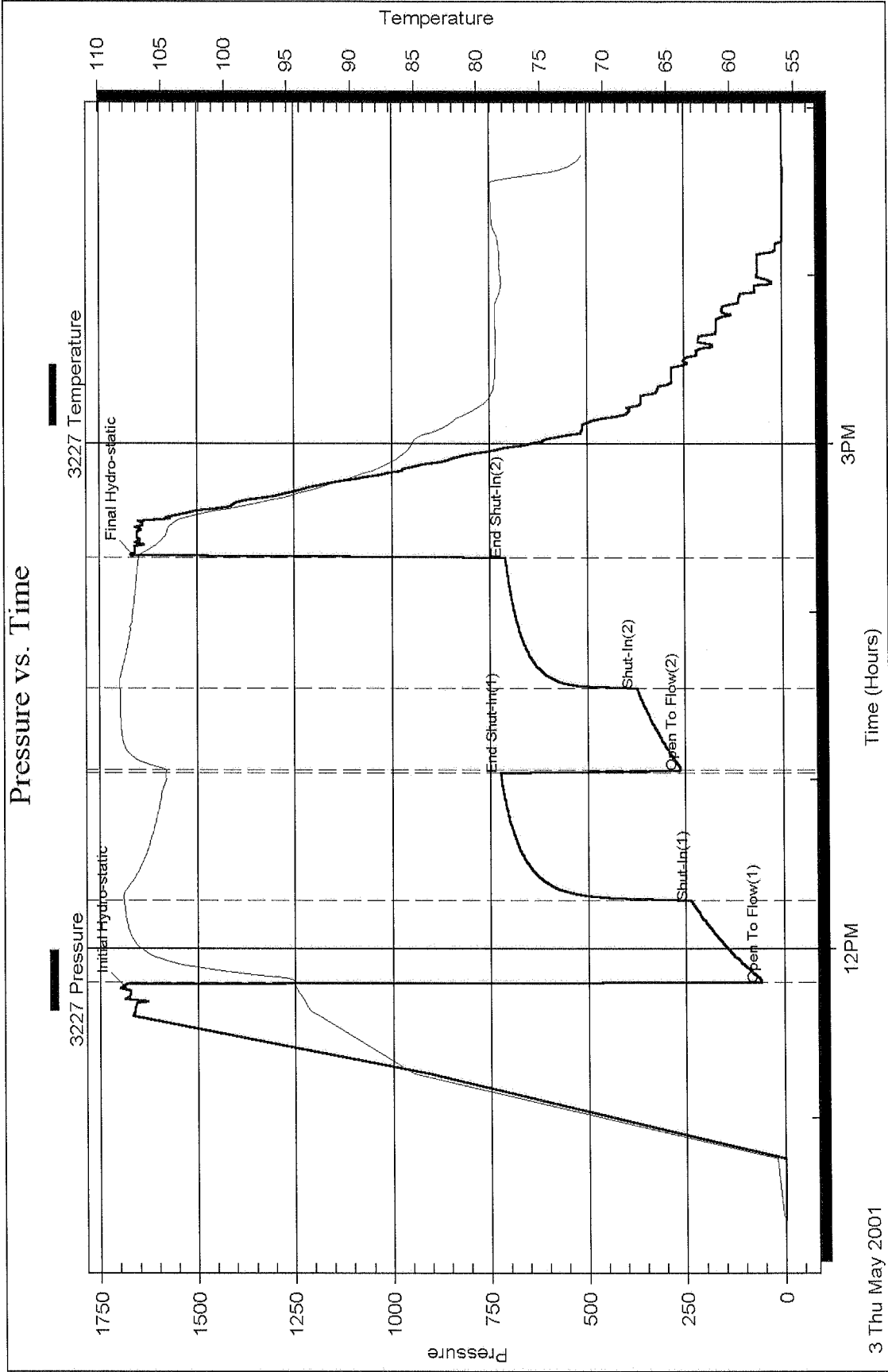
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

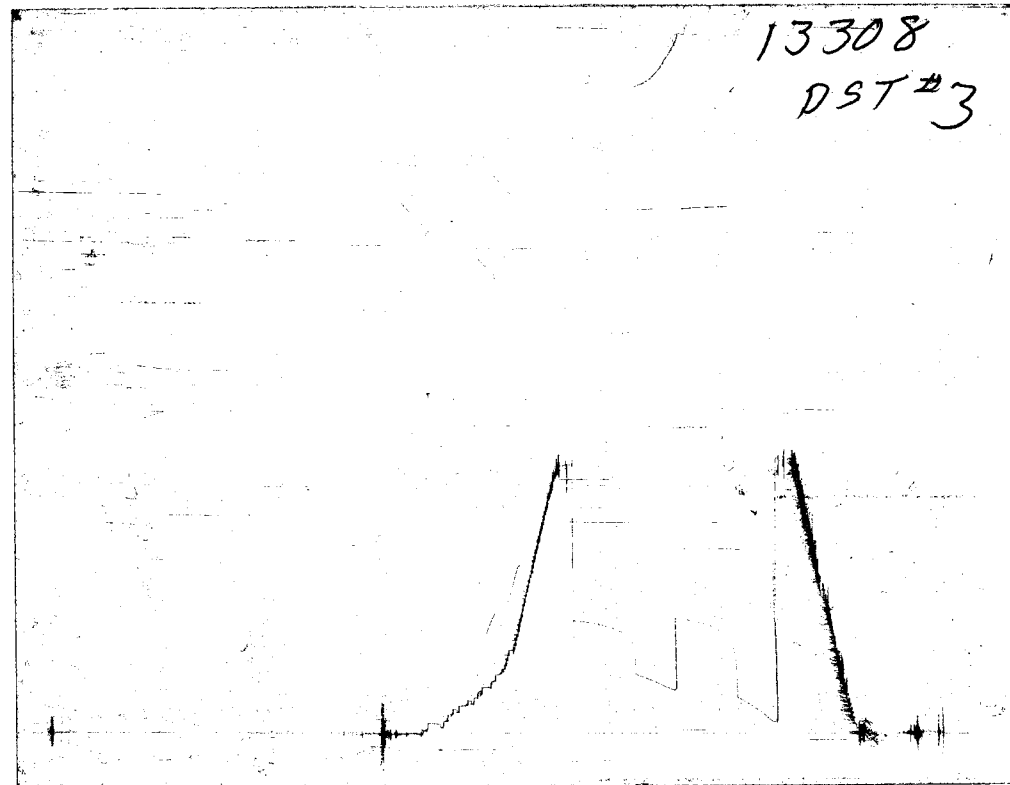
Recovery Comments:



3 Thu May 2001

CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No. 14341

Test Ticket

Well Name & No.	<u>GROW A-2-16</u>	Test No.	<u>#3</u>	Date	<u>5-3-01</u>				
Company	<u>AMERICAN WARRIOR, INC.</u>	Zone Tested	<u>LANSING I</u>						
Address	<u>P.O. BOX 399 GARDEN CITY, KS 67846</u>	Elevation	<u>1894</u>	KB	<u>1886</u>	GL			
Co. Rep / Geo.	<u>RON NELSON</u>	Cont.	<u>DISCOVERY #2</u>	Est. Ft. of Pay	___	Por.	___	%	
Location: Sec.	<u>16</u>	Twp.	<u>21^s</u>	Rge.	<u>13^w</u>	Co.	<u>STAFFORD</u>	State	<u>KS</u>
No. of Copies	___	Distribution Sheet (Y, N)	___	Turnkey (Y, N)	___	Evaluation (Y, N)	___	___	___

Interval Tested	<u>3468 TO 3485</u>	Initial Str Wt./Lbs.	<u>32,000</u>	Unseated Str Wt./Lbs.	<u>34,000</u>		
Anchor Length	<u>17</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>38,000</u>		
Top Packer Depth	<u>3463</u>	Tool Weight	<u>2,500</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Bottom Packer Depth	<u>3468</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>31</u>		
Total Depth	<u>3485</u>	Drill Pipe Size	<u>4 1/2 X 4</u>	Ft. Run	<u>3446</u>		
Mud Wt.	<u>9.1</u>	LCM	<u>#1</u>	Vis.	<u>41</u>	WL	<u>10.4</u>
Blow Description	<u>IF STRONG BOB, 2 min</u>		<u>FSI-3"</u>				
	<u>F.F. STRONG BOB, 4 min.</u>		<u>FSI-1 1/2"</u>				

Recovery — Total Feet	<u>750'</u>	GIP	<u>340'</u>	Ft. in DC	<u>31'</u>	Ft. in DP	<u>719'</u>				
Rec.	<u>750</u>	Feet Of	<u>GASSY WATER</u>	%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	___
Rec.	___	Feet Of	___	%gas	___	%oil	___	%water	___	%mud	___
BHT	<u>106</u>	°F Gravity	___	°API D@	___	°F Corrected Gravity	___	°API	___		
RW	<u>.12</u>	@	<u>76</u>	°F Chlorides	<u>58,000</u>	ppm Recovery	___	Chlorides	___	ppm System	___

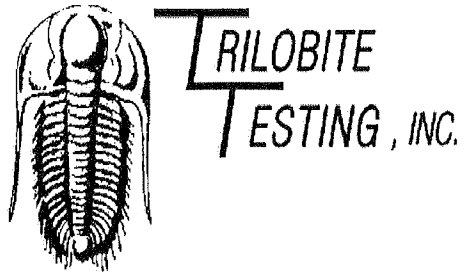
	AK-1	Alpine	PSI	Recorder No.	T-On Location	
(A) Initial Hydrostatic Mud	___	<u>1690</u>	___	<u>3227</u>	<u>09:30</u>	
(B) First Initial Flow Pressure	___	<u>60</u>	PSI (depth)	<u>3469</u>	T-Started <u>10:30</u>	
(C) First Final Flow Pressure	___	<u>238</u>	PSI Recorder No.	<u>13308</u>	T-Open <u>11:45</u>	
(D) Initial Shut-In Pressure	___	<u>724</u>	PSI (depth)	<u>3482</u>	T-Pulled <u>14:15</u>	
(E) Second Initial Flow Pressure	___	<u>264</u>	PSI Recorder No.	___	T-Out <u>16:30</u>	
(F) Second Final Flow Pressure	___	<u>374</u>	PSI (depth)	___	T-Off Location <u>17:00</u>	
(G) Final Shut-in Pressure	___	<u>711</u>	PSI Initial Opening	<u>30</u>	Test <u>BOTTOM HOLE 700</u>	
(Q) Final Hydrostatic Mud	___	<u>1666</u>	PSI Initial Shut-in	<u>45</u>	Jars	___
			Final Flow	<u>30</u>	Safety Joint	___
			Final Shut-in	<u>45</u>	Straddle	___

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE 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 John Schmidt

Extra Packer _____
Elec. Rec. ✓ 150
Mileage 40
Other _____
TOTAL PRICE \$ 840



DRILL STEM TEST REPORT

Prepared For: **American Warrior Inc.**

PO Box 399
Garden City, KS 67846

ATTN: Cecil O'Brate

16-21s-13w Stafford

Grow-A-#2-16

Start Date: 2001.05.02 @ 07:30:00

End Date: 2001.05.04 @ 17:30:00

Job Ticket #: 14342 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

American Warrior Inc.

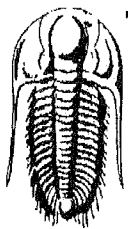
Grow-A-#2-16

16-21s-13w Stafford

DST # 4

Arb.

2001.05.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

American Warrior Inc.

Grow-A-#2-16

PO Box 399
Garden City, KS 67846

16-21s-13w Stafford

ATTN: Cecil O'Brate

Job Ticket: 14342

DST#: 4

Test Start: 2001.05.02 @ 07:30:00

GENERAL INFORMATION:

Formation: **Arb.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:32:56

Time Test Ended: 17:30:00

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **3601.00 ft (KB) To 3657.00 ft (KB) (TVD)**

Reference Elevations: 1894.00 ft (KB)

Total Depth: 3415.00 ft (KB) (TVD)

1886.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 3227 Inside

Press@RunDepth: 553.76 psig @ 3599.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.05.04 End Date: 2001.05.04

Last Calib.: 2001.05.04

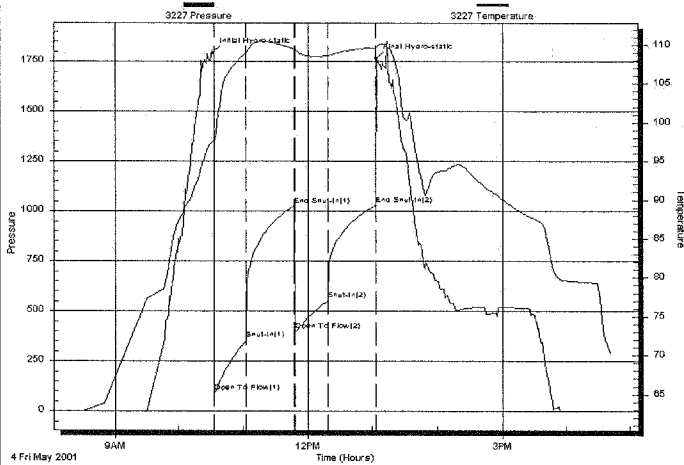
Start Time: 08:27:58 End Time: 16:43:26

Time On Btm: 2001.05.04 @ 10:31:26

Time Off Btm: 2001.05.04 @ 13:03:41

TEST COMMENT: IF-Strong BOB 1min. ISI-3"
FF-Strong BOB 1min. FSI-3"

Pressure vs. Time



PRESSURE SUMMARY

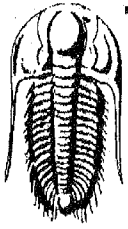
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1793.63	97.56	Initial Hydro-static
2	92.57	97.62	Open To Flow (1)
32	354.87	108.99	Shut-In(1)
76	1026.62	109.52	End Shut-In(1)
77	398.77	109.42	Open To Flow (2)
108	553.76	108.62	Shut-In(2)
152	1029.53	109.64	End Shut-In(2)
153	1765.43	109.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1440.00	Free Gassy oil	19.92
460.00	Gas in pipe	6.45

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

American Warrior Inc.

Grow-A-#2-16

PO Box 399
Garden City, KS 67846

16-21s-13w Stafford

Job Ticket: 14342

DST#: 4

ATTN: Cecil O'Brate

Test Start: 2001.05.02 @ 07:30:00

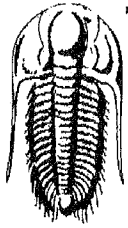
Tool Information

Drill Pipe:	Length: 3571.00 ft	Diameter: 3.80 inches	Volume: 50.09 bbl	Tool Weight: 3000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 39000.00 lb
			<u>Total Volume: 50.24 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3596.00 ft			Final 35000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.02 ft			
Tool Length:	76.02 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			3577.00	
S.I. Tool	5.00			3582.00	
HMV	5.00			3587.00	
Packer	4.00			3591.00	20.00 Bottom Of Top Packer
Packer	5.00			3596.00	
Stubb	1.00			3597.00	
Perforations	1.00			3598.00	
C.O. Sub	1.00			3599.00	
Recorder	0.01	3227	Inside	3599.01	
Blank Spacing	31.00			3630.01	
C.O. Sub	1.00			3631.01	
Perforations	18.00			3649.01	
Recorder	0.01	13308	Outside	3649.02	
Bullnose	3.00			3652.02	56.02 Bottom Packers & Anchor

Total Tool Length: 76.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

American Warrior Inc.

Grow-A-#2-16

PO Box 399
Garden City, KS 67846

16-21s-13w Stafford

Job Ticket: 14342

DST#: 4

ATTN: Cecil O'Brate

Test Start: 2001.05.02 @ 07:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1440.00	Free Gassy oil	19.917
460.00	Gas in pipe	6.453

Total Length: 1900.00 ft Total Volume: 26.370 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 3227

Inside

American Warrior Inc.

16-21s-13w Stafford

DST Test Number: 4

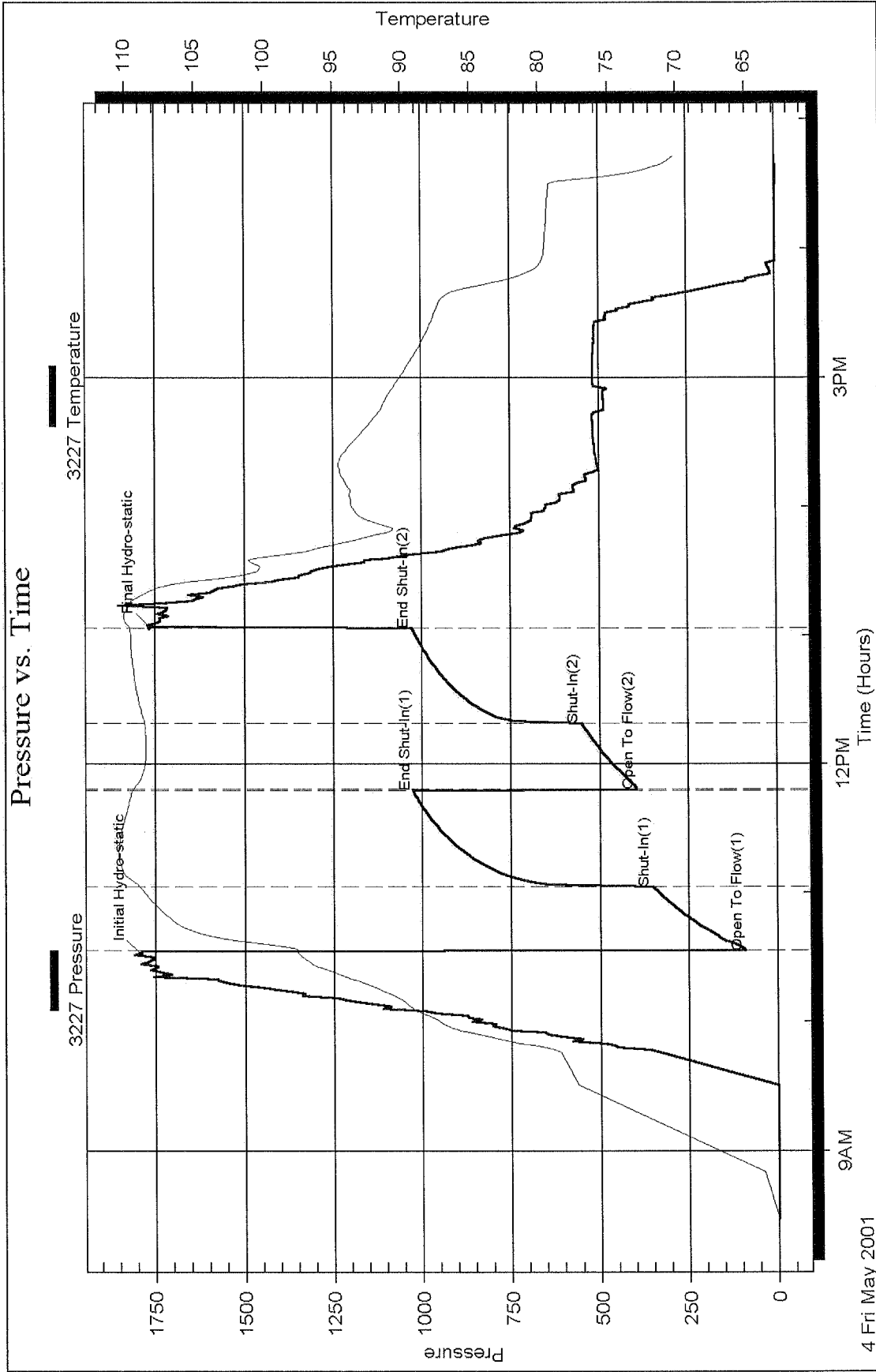
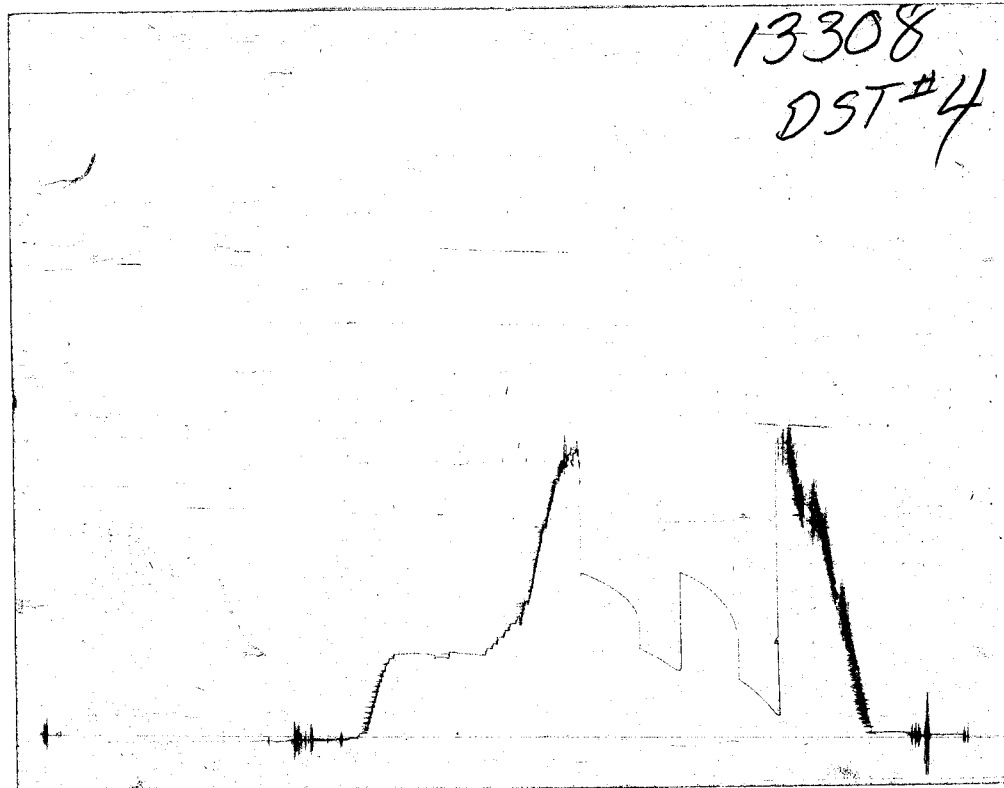


CHART PAGE

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



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 14342

Test Ticket

Well Name & No. <u>GROW A-#2-16</u>	Test No. <u>#4</u>	Date <u>5-4-01</u>
Company <u>AMERICAN WARRIOR INC.</u>	Zone Tested <u>ARB</u>	
Address <u>P.O. BOX 399 GARDEN CITY, KS. 67846</u>	Elevation <u>1894</u> KB <u>1886</u> GL	
Co. Rep / Geo. <u>RON NELSON</u>	Cont. <u>STAFFORD DISCOV</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>16</u>	Twp. <u>21^s</u>	Rge. <u>13^w</u> Co. <u>STAFFORD</u> State <u>KS.</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>3601 TO 3657</u>	Initial Str Wt./Lbs. <u>34,000</u>	Unseated Str Wt./Lbs. <u>35,000</u>
Anchor Length <u>54</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>39,000</u>
Top Packer Depth <u>3596</u>	Tool Weight <u>3,000</u>	
Bottom Packer Depth <u>3601</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>3657</u>	Wt. Pipe Run <u>0</u>	Drill Collar Run <u>31</u>
Mud Wt. <u>9.4</u> LCM <u>#1</u> Vis. <u>#7</u> WL <u>10.8</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>3602 3571</u>
Blow Description <u>IF, STRONG B.O.B. 1-MIN.</u>	<u>ISI 3"</u>	
<u>F.F. - STRONG B.O.B. 1-MIN.</u>	<u>FST, 3"</u>	

Recovery — Total Feet <u>1440'</u>	GIP <u>460'</u>	Ft. in DC <u>31</u>	Ft. in DP <u>1409</u>
Rec. <u>1440'</u>	Feet Of <u>FREE GASSY OIL</u>	%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 _____	
Rec. _____	Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
BHT <u>109</u>	°F Gravity <u>40</u>	°API D@ <u>-1</u>	°F Corrected Gravity <u>41</u> °API _____
RW _____ @ _____	°F Chlorides _____ ppm Recovery	Chlorides _____ ppm System	

(A) Initial Hydrostatic Mud	AK-1 <u>1793</u> PSI	Alpine Recorder No. <u>3227</u>	T-On Location <u>07:30</u>
(B) First Initial Flow Pressure	<u>92</u> PSI	(depth) <u>3604</u>	T-Started <u>09:30</u>
(C) First Final Flow Pressure	<u>354</u> PSI	Recorder No. <u>13308</u>	T-Open <u>10:30</u> 9:15
(D) Initial Shut-In Pressure	<u>1026</u> PSI	(depth) <u>3654</u>	T-Pulled <u>13:00</u>
(E) Second Initial Flow Pressure	<u>398</u> PSI	Recorder No. _____	T-Out <u>16:45</u>
(F) Second Final Flow Pressure	<u>553</u> PSI	(depth) _____	T-Off Location <u>17:45</u>
(G) Final Shut-in Pressure	<u>1029</u> PSI	Initial Opening <u>30</u>	Test <u>BOTTOM HOLE</u> 7:00
(Q) Final Hydrostatic Mud	<u>1765</u> PSI	Initial Shut-in <u>45</u>	Jars _____
		Final Flow <u>30</u>	Safety Joint _____
		Final Shut-in <u>45</u>	Straddle _____
			Circ. Sub <input checked="" type="checkbox"/> <u>35</u>
			Sampler _____
			Extra Packer _____
			Elec. Rec. <input checked="" type="checkbox"/> <u>150</u>
			Mileage <u>40</u>
			Other <u>1 hr 30</u>
			TOTAL PRICE \$ <u>955</u>

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Approved By _____
 Our Representative John J. Schmidt

Well Name Crow

DST Number 1

Recorder Number 13308

A:	<u>1404</u>	<u>1658</u>
B:	<u>.061</u>	<u>74</u>
C:	<u>.068</u>	<u>82</u>
D:	<u>.101</u>	<u>714</u>
E:	<u>.098</u>	<u>118</u>
F:	<u>.106</u>	<u>128</u>
G:	<u>.584</u>	<u>694</u>
Q:	<u>1399</u>	<u>1651</u>