

ORIGINAL

15-033-20977

Well Name: Rich #1-29
Company: American Warriors
Location: 29-32s-19w
Comanche County Kansas
Date: 11-12-98

TRILOBITE TESTING L.L.C.

OPERATOR : Americian Warriors DATE 11-6-98
 WELL NAME: Rich #1-29 KB 1927.00 ft TICKET NO: 10947 DST #1
 LOCATION : 29-40S-30E Comanche co KS GR 1916.00 ft FORMATION: Mississippian
 INTERVAL : 5094.00 To 5159.00 ft TD 5159.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10993	10993	3227			PF Fr. 2105 to 2135 hr
SI 60	Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 2135 to 2235 hr
SF 60	Clock(hrs)	12HR.	12HR.	Elet.			SF Fr. 2235 to 2335 hr
FS 60	Depth(ft)	5056.0	5056.0	5097.0	0.0	0.0	FS Fr. 2335 to 0035 hr

	Field	1	2	3	4	
A. Init Hydro	2564.0	2550.0	2564.0	0.0	0.0	T STARTED 1830 hr
B. First Flow	26.0	78.0	26.0	0.0	0.0	T ON BOTM 2100 hr
B1. Final Flow	34.0	61.0	34.0	0.0	0.0	T OPEN 2105 hr
C. In Shut-in	128.0	142.0	128.0	0.0	0.0	T PULLED 0035 hr
D. Init Flow	30.0	67.0	30.0	0.0	0.0	T OUT 0245 hr
E. Final Flow	36.0	67.0	36.0	0.0	0.0	
F. Fl Shut-in	122.0	131.0	122.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2404.0	2519.0	2504.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 58000.00 lbs
						Unseated Str Wt 60000.00 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 0.00 ft
						D.P. Length 5106.00 ft

RECOVERY

Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
 30.00 ft of 100% drilling 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
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Fair blow built to 5 1/2"
 Initial Shut-in:
 No blow back
 Final Flow:
 Slow building blow built to 3.5"
 Final Shut-in:
 No blow back

SAMPLES: NO..
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.30 lb/c
 Vis. 45.00 S/L
 W.L. 11.20 in3
 F.C. 0.00 in
 Mud Drop Y 25.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 111.00 F
 Hole Condition Good
 % Porosity 10.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Mike Colantonio
 Co. Rep. alan Downing
 Contr. Duke
 Rig # 5
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Rich #1-29

LOCATION : 29-40S-30E Comanche co KS

TICKET No. 10947 D.S.T. No. 1 DATE 11-6-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 34

TOTAL TOOL 61

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 92

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands85 Single 1 Total 5075

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5167

TOTAL DEPTH 5159

TOTAL DRILL PIPE ABOVE K.B. 8FT.

REMARKS:

NO SAMPLER RUN.....

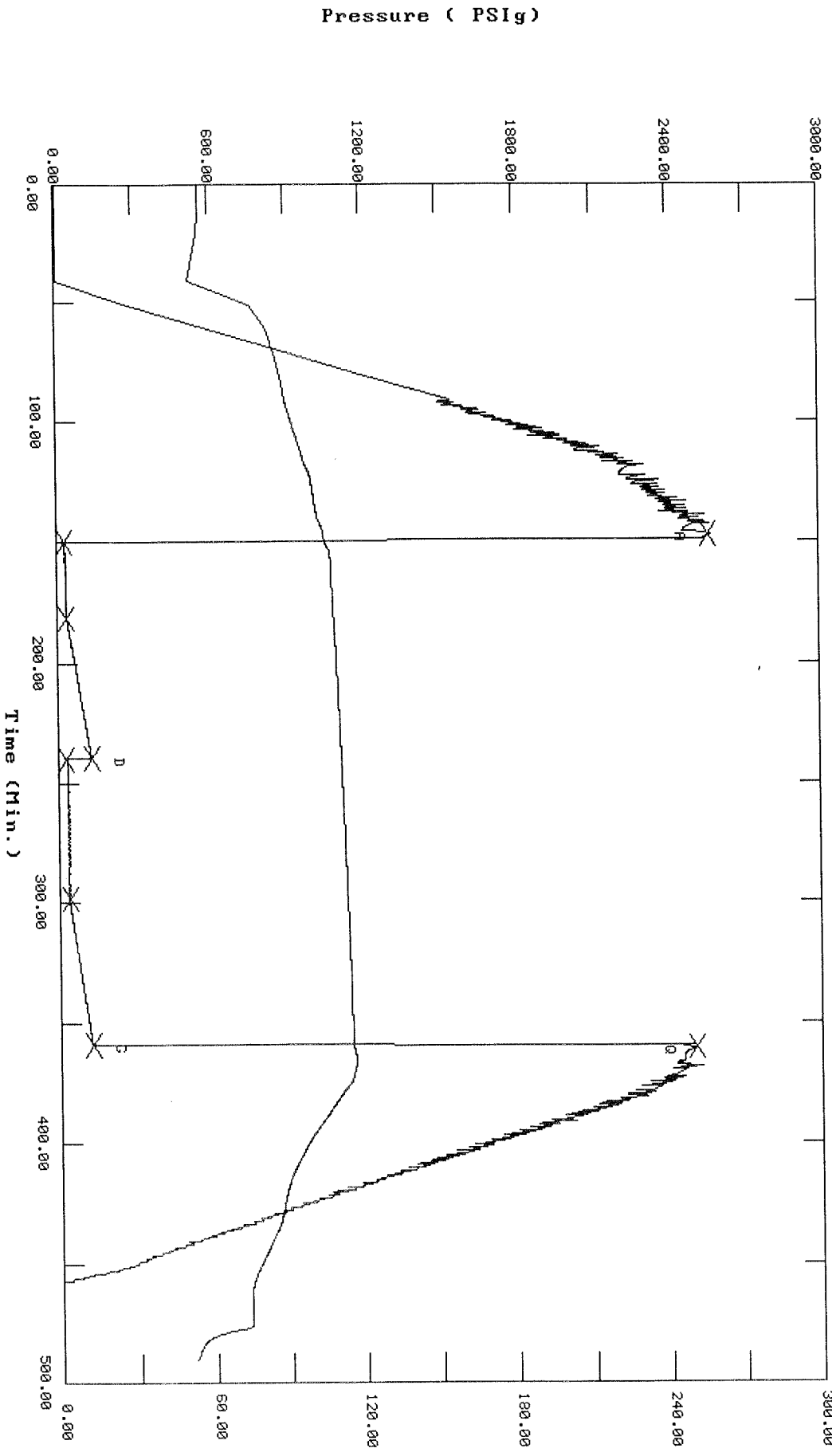
P.O. SUB Top Tool	5067
C.O. SUB 1ft	5068
S.I. TOOL Sterling	5073
HMV Sterling	5078
JARS Sterling	5083
SAFETY JOINT Bowens	5085
PACKER 5ft	5089
PACKER 5ft	5094
DEPTH	
STUBB 1ft	5095
ANCHOR	
2ft Perf	5097
Alpine Rec.	5097
5ft P.U. Sub	5002
T.C.	
DEPTH	
20ft Perf	5022
33ft Pipe Subs	5055
Ak-1 Rec.	5056
BULLNOSE	
T.D. 4ft Bullplug	5159

TEST HISTORY

10947 DST#1 Rich #1-29 American Warrior

Flag Points

t (Min.)	P (PSig)
R: 0.00	2564.65
B: 0.00	26.78
C: 31.25	34.41
D: 58.00	128.78
E: 0.00	38.10
F: 58.25	36.81
G: 60.75	122.57
Q: 0.00	2504.17

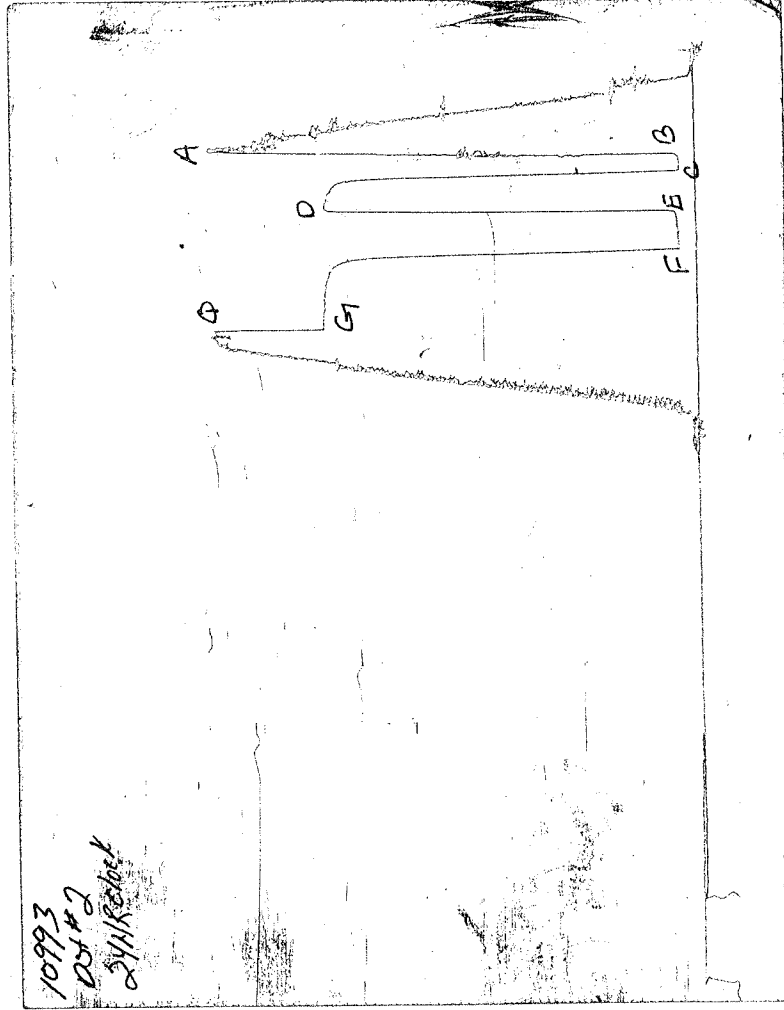


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

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

Test Ticket

No 10947

Well Name & No. Rich #1-29 Test No. #1 Date 11-6-98
 Company American Warriors Zone Tested Mississippian
 Address P.O. Box 399 Garden City KS. 67846-0399 Elevation 1927 KB 1916 GL
 Co. Rep / Geo. Alan Downing Cont. Duke Rig #5 Est. Ft. of Pay 8 Por. 10 %
 Location: Sec. 29 Twp. 405 Rge. 30E Co. Cornache State KS.
 No. of Copies _____ Distribution Sheet (Y, N) _____ Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested 5094 - 5159 Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 60,000
 Anchor Length 65' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 85,000
 Top Packer Depth 5089 Tool Weight 4,800
 Bottom Packer Depth 5094 Hole Size — 7 7/8" x Rubber Size — 6 3/4" x
 Total Depth 5159 Wt. Pipe Run _____ Drill Collar Run NONE
 Mud Wt. 9.3 LCM 2" Vis. 45 WL 11.2 Drill Pipe Size 4.5 x 0 Ft. Run 5106

Blow Description Fair Blow Built to 5 1/2" Seizing
ESI. NO Blow Back
2nd opening Slow Building Bleed Built to 3 1/2"
ESI. NO Blow Back.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>30</u>	<u>30</u>		<u>30</u>
Rec. <u>30</u> Feet Of <u>dry mud</u>	%gas	%oil	%water <u>100%</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 111 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5,100 ppm System

(A) Initial Hydrostatic Mud 2564 PSI Recorder No. 3227 T-Started 6:30pm
 (B) First Initial Flow Pressure 26 PSI (depth) 5097 T-Open 9:05pm
 (C) First Final Flow Pressure 39 PSI Recorder No. 10993 T-Pulled 12:35AM
 (D) Initial Shut-in Pressure 128 PSI (depth) 5056 T-Out _____
 (E) Second Initial Flow Pressure 30 PSI Recorder No. _____
 (F) Second Final Flow Pressure 36 PSI (depth) _____
 (G) Final Shut-in Pressure 122 PSI Initial Opening 30min Test Conventional
 (H) Final Hydrostatic Mud 2504 PSI Initial Shut-in 60min Jars ✓
Alpine Final Flow 60min Safety Joint ✓
 Final Shut-in 60min 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 Alan Downing
 Our Representative Alan Downing
 Circ. Sub N/C
 Sampler _____
 Extra Packer _____
 Elect. Rec. ✓
 Other _____
 TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

OPERATOR : Americian Warrior DATE 11-9-98
 WELL NAME: Rich #1-29 KB 1927.00 ft TICKET NO: 10948 DST #2
 LOCATION : 29-32S-19W Comanche co KS GR 1916.00 ft FORMATION: Viola
 INTERVAL : 5749.00 To 5814.00 ft TD 5814.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10993	10993	3227			PF Fr. 1900 to 1930 hr
SI 60	Range(Psi)	4250.0	4250.0	4995.0	0.0	0.0	IS Fr. 1930 to 2030 hr
SF 60	Clock(hrs)	12HR.	12HR.	Elet.			SF Fr. 2030 to 2130 hr
FS 120	Depth(ft)	5811.0	5811.0	5752.0	0.0	0.0	FS Fr. 2130 to 2330 hr

	Field	1	2	3	4	
A. Init Hydro	2791.0	2718.0	2791.0	0.0	0.0	T STARTED 1645 hr
B. First Flow	45.0	92.0	45.0	0.0	0.0	T ON BOTM 1858 hr
B1. Final Flow	64.0	89.0	64.0	0.0	0.0	T OPEN 1900 hr
C. In Shut-in	2127.0	2089.0	2127.0	0.0	0.0	T PULLED 2330 hr
D. Init Flow	50.0	102.0	50.0	0.0	0.0	T OUT 0215 hr
E. Final Flow	67.0	94.0	67.0	0.0	0.0	
F. Fl Shut-in	2129.0	2110.0	2129.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2750.0	2712.0	2750.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 120000.00 lbs
						Initial Str Wt 65000.00 lbs
						Unseated Str Wt 65000.00 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 0.00 ft
						D.P. Length 5761.00 ft

RECOVERY

Tot Fluid 90.00 ft of 0.00 ft in DC and 90.00 ft in DP
 90.00 ft of Gassy Mud 10% Gas 90% 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
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 1 min. Gas to surface in 11 1/2 mins.
 Initial Shut-in:
 No blow back
 Final Flow:
 Strong blow bottom of bucket as soon as open tool
 Final Shut-in:
 No blow back

SAMPLES: Yes 1
 SENT TO: Caraway Lab.

Test Successful: Y

MUD DATA-----
 Mud Type Chemical
 Weight 9.10 lb/c
 Vis. 44.00 S/L
 W.L. 11.20 in3
 F.C. 0.00 in
 Mud Drop Y 25.0 ft
 Amt. of fill 0.00 ft
 Btm. H. Temp. 128.00 F
 Hole Condition Good
 % Porosity 10.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Mike Colantonio
 Co. Rep. Alan Downing
 Contr. Duke Drlg.
 Rig # 5
 Unit #
 Pump T.

*** TOOL DIAGRAM *** CONVENTIONAL

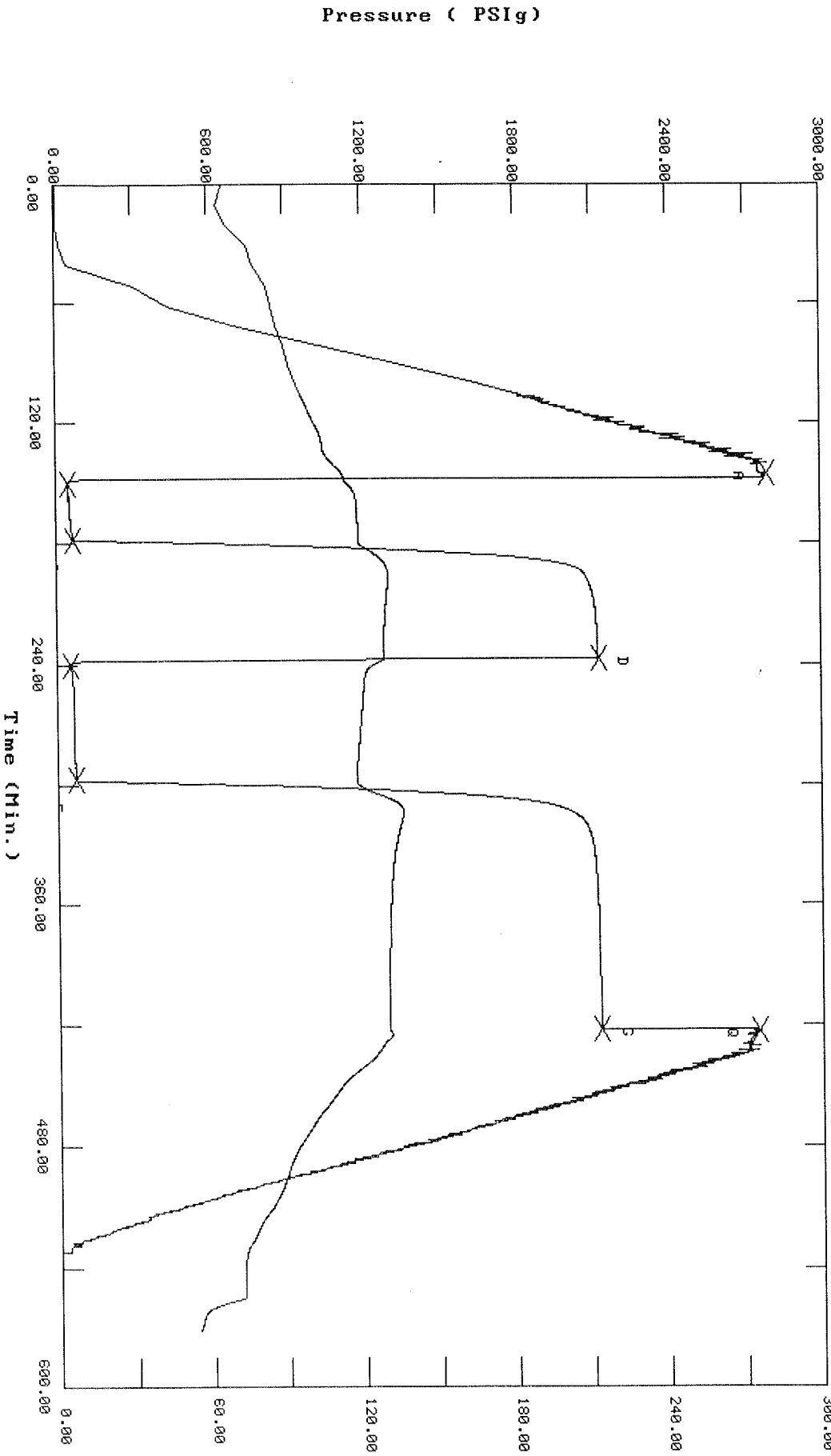
WELL NAME: Rich #1-29	P.O. SUB Top tool	5722
	C.O. SUB 1ft	5723
LOCATION : 29-32S-19W	S.I. TOOL Sterling	5728
TICKET No. 10948 D.S.T. No. 2 DATE 11-9-98		
TOTAL TOOL TO BOTTOM OF TOP PACKERS 27	HMV Sterling	5733
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 34	JARS Sterling	5738
TOTAL TOOL 61		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT Bowens	5740
D.P. ANCHOR STND.Stands Single 1 Total 31	PACKER 5ft	5749
TOTAL ASSEMBLY	PACKER 5ft	5749
D.C. ABOVE TOOLS.Stands Single Total	DEPTH	
D.P. ABOVE TOOLS.Stands Single 97 Total 5730	STUBB 1ft	5750
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5822	ANCHOR	
	2ft Perf	5752
	Alpine rec.	5752
TOTAL DEPTH 5814	5ft P.U. Sub	5757
TOTAL DRILL PIPE ABOVE K.B. 8ft.		
REMARKS:		
NO SAMPLER RUN		
	T.C.	
	DEPTH	
	20ft Perf	5777
	33ft Pipe Subs	5810
	AK-1 Rec.	5811
	BULLNOSE	
	T.D. 4ft Bullplug.	5814

TEST HISTORY

10948 DST #2 Rich #1-29 American Warrior.

Flag Points

Flag Points	t (Min.)	P (PSig)
R:	0.00	2791.16
B:	0.00	45.63
C:	28.00	64.21
D:	58.75	2127.56
E:	0.00	50.71
F:	57.25	67.36
G:	124.75	2129.64
Q:	0.00	2750.48

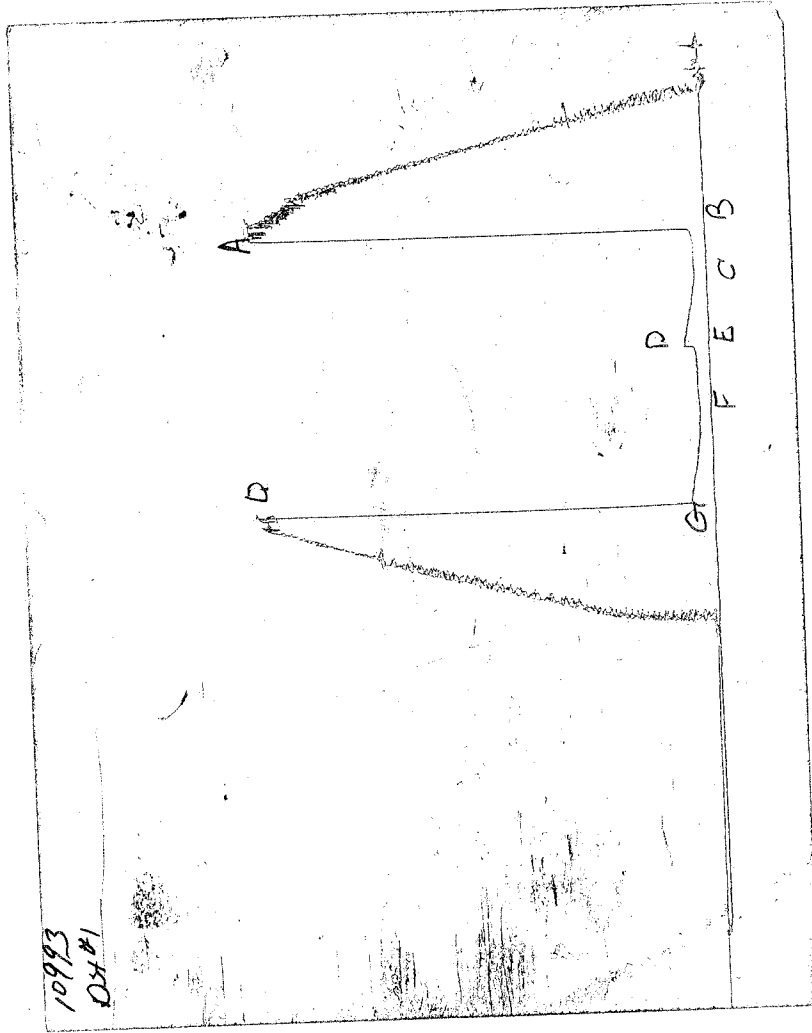


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



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

TRILOBITE TESTING L.L.C.

230847

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10948

Well Name & No. <u>Rich #1-29</u>	Test No. <u># 2</u>	Date <u>11-9-98</u>
Company <u>American Warriors</u>	Zone Tested <u>Vioha</u>	
Address <u>P.O. Box 399 Garden City KS 67846-0399</u>	Elevation <u>1227</u> KB <u>1916</u> GL	
Co. Rep / Geo. <u>Alan Downing</u>	Cont. <u>Duke Big #5</u>	Est. Ft. of Pay <u>15</u> Por. <u>10</u> %
Location: Sec. <u>29</u> Twp. <u>32S</u> Rge. <u>19W</u> Co. <u>Comanche</u> State <u>KS.</u>		
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____
		Evaluation (Y, N) _____

Interval Tested <u>5749-5814</u>	Initial Str Wt./Lbs. <u>65,000</u>	Unseated Str Wt./Lbs. <u>65,000</u>
Anchor Length <u>65'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>120,000</u>
Top Packer Depth <u>5744</u>	Tool Weight <u>4,800</u>	
Bottom Packer Depth <u>5749</u>	Hole Size — 7 7/8" <u>X</u>	Rubber Size — 6 3/4" <u>X</u>
Total Depth <u>5814</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>None</u>
Mud Wt. <u>9.1</u> LCM <u>4"</u> Vis. <u>44</u> WL <u>11.2</u>	Drill Pipe Size <u>4.5 X 0</u>	Ft. Run <u>5761</u>
Blow Description <u>Strong Blow B.O.B. in 1 min (7TS 1 1/2 min MCF@ 90,000)</u>		
<u>FSI. NO Blow Back</u>		
<u>Ind. opening Strong Blow B.O.B. soon as gas had. MCF@ 119,000</u>		
<u>FSI. NO Blow Back</u>		

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>90</u>			<u>90</u>
Rec. <u>90</u> Feet Of <u>Gassy Mud</u>		<u>10</u> %gas	%oil %water <u>90</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 128 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5900 ppm System

(A) Initial Hydrostatic Mud <u>2791</u> PSI	Recorder No. <u>10993</u>	T-Started <u>4:45pm</u>
(B) First Initial Flow Pressure <u>45</u> PSI	(depth) <u>5811</u>	T-Open <u>7:00pm</u>
(C) First Final Flow Pressure <u>64</u> PSI	Recorder No. <u>3227</u>	T-Pulled <u>11:30pm</u>
(D) Initial Shut-in Pressure <u>2127</u> PSI	(depth) <u>5752</u>	T-Out <u>2:15 Am</u>
(E) Second Initial Flow Pressure <u>50</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>67</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>2129</u> PSI	Initial Opening <u>30min</u>	Test <u>✓ Conventions</u>
(H) Final Hydrostatic Mud <u>2750</u> PSI	Initial Shut-in <u>60min</u>	Jars <u>✓</u>
	Final Flow <u>60min</u>	Safety Joint <u>✓</u>
	Final Shut-in <u>120min</u>	Straddle _____
		Circ. Sub <u>✓ N/C</u>
		Sampler _____
		Extra Packer _____
		Elect. Rec. <u>✓</u>
		Other _____
		TOTAL PRICE \$ _____

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 Alan Downing

Our Representative Alan Downing