

CONFIDENTIAL

ORIGINAL

KCC

DEC 15 1998

CONFIDENTIAL

WELL NAME:

Bird #1-~~28~~ 28

COMPANY:

American Warriors

LOCATION:

28-32s-19w

Comanche County, Kansas

DATE:

9/30/98

RELEASED

MAR 28 2001

DEC 16 1998

FROM CONFIDENTIAL

CONSERVATION DIVISION
Wichita, Kansas

28-32-19w

1911

1912

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : American Warrior Inc.

DATE 9-23-98

WELL NAME: Bird 1-28

KB ~~1938.00~~ ft

TICKET NO: 11091

DST #1

LOCATION : 28-32s-19w Comanche co KS

GR 1925.00 ft

FORMATION: miss.

INTERVAL : 5063.00 To 5180.00 ft

TD 5180.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11058	11058	2347			PF Fr. 0250 to 0320 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0320 to 0420 hr
SF 60 Clock(hrs)	12	12	alpin			SF Fr. 0420 to 0520 hr
FS 60 Depth(ft)	5175.0	5175.0	5080.0	0.0	0.0	FS Fr. 0520 to 0620 hr

	Field	1	2	3	4	
A. Init Hydro	2535.0	2537.0	2502.0	0.0	0.0	T STARTED 1215 hr
B. First Flow	122.0	142.0	70.0	0.0	0.0	T ON BOTM 0247 hr
Bl. Final Flow	122.0	138.0	78.0	0.0	0.0	T OPEN 0250 hr
C. In Shut-in	1725.0	1730.0	1703.0	0.0	0.0	T PULLED 0620 hr
D. Init Flow	133.0	138.0	66.0	0.0	0.0	T OUT 0900 hr
E. Final Flow	122.0	123.0	69.0	0.0	0.0	
F. Fl Shut-in	1600.0	1603.0	1588.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2513.0	2511.0	2459.0	0.0	0.0	Tool Wt. 5000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 112000.00 lbs
						Initial Str Wt 91000.00 lbs
						Unseated Str Wt 91000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 351.00 ft
						D.P. Length 4804.00 ft

RECOVERY

- Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP
 120.00 ft of 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:

Bottom of bucket in 1/2 min. Gas to surface in 14 mins.

Initial Shut-in:

Bleed off for 6 1/2 mins. no return

Final Flow:

Gauging gas at open

Final Shut-in:

Bleed off for 8 mins. no return

-SAMPLES:

SENT TO:

KCC

DEC 15 1998

CONFIDENTIAL

RELEASED

MAR 28 2001

FROM CONFIDENTIAL

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	54.00 S/L
W.L.	7.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Al Downing
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: American Warrior Inc.

DATE: 9-23-98

WELL NAME: Bird 1-28

KB Elev: 1938.00 ft TICKET #11091 DST #1

WELL LOCATION: 28-32-19

GR Elev: 1925.00 ft FORMATION: miss.

INTERVAL Fr.: 5063.00 To 5180.00 T.D.: 5180.00 ft TEST TYPE: CONV.

AS RECOVERY MEASURED WITH merla

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.50	0	76	54.7
25	0.50	0	78	55.3
30	0.50	0	82	56.8

**** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.50	10	0	116.0
10	0.50	9	0	108.0
15	0.50	8	0	101.0
20	0.50	7	0	94.5
30	0.50	7	0	94.5
40	0.50	7	0	94.5
50	0.50	7	0	94.5
60	0.50	7	0	94.5

*** TOOL DIAGRAM *** CONV.

WELL NAME: Bird 1-28

LOCATION : 28-32-19

TICKET No. 11091 D.S.T. No. 1 DATE 9-23-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 54

TOTAL TOOL 81

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 1 Single 1 Total 94

TOTAL ASSEMBLY 175

D.C. ABOVE TOOLS.Stands6 Single Total 351

D.P. ABOVE TOOLS.Stands Single Total 4679

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5205

TOTAL DEPTH 5180

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

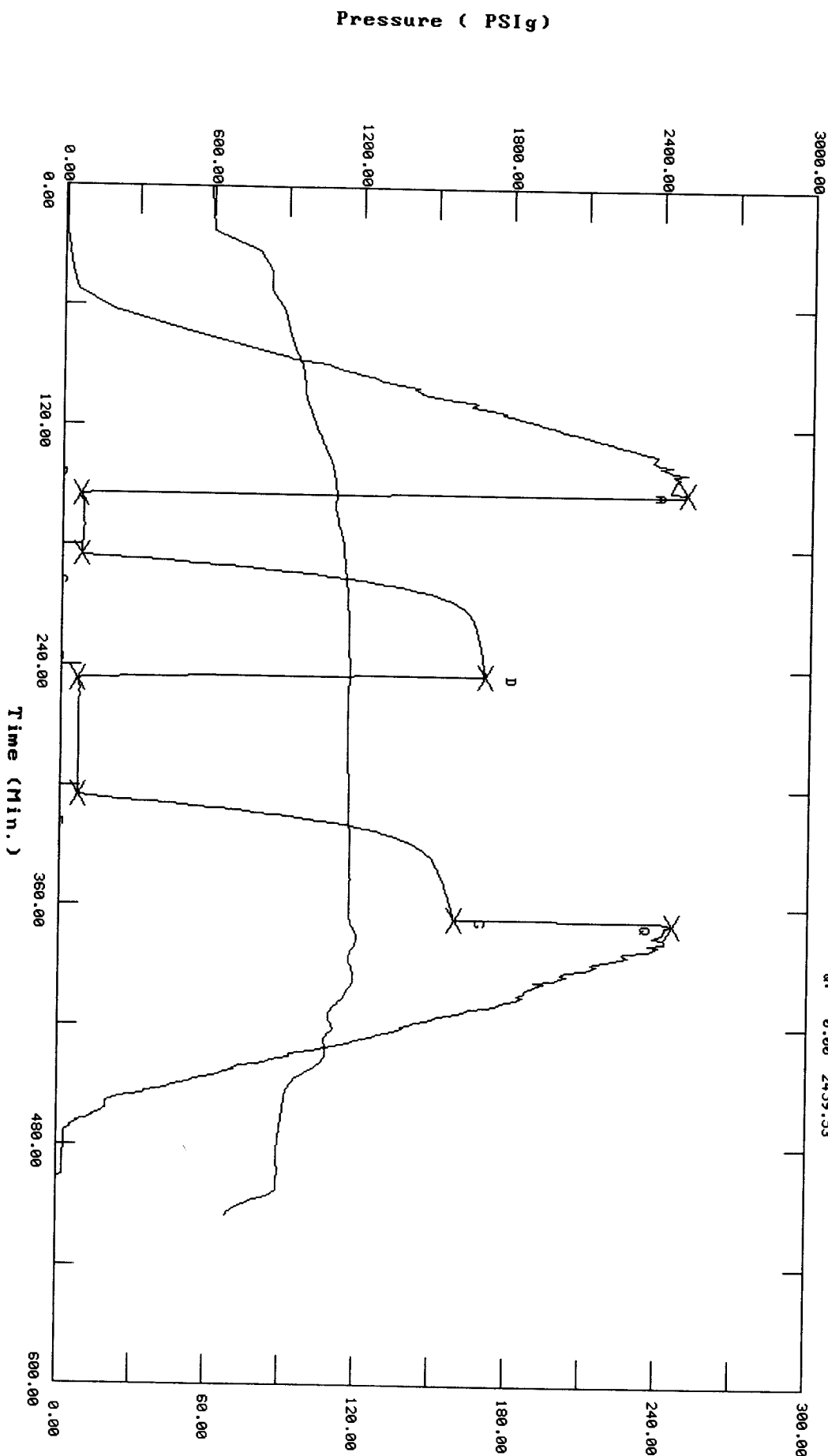
P.O. SUB	
C.O. SUB 1'	5035
S.I. TOOL 5'	5041
HMV 5'	5046
JARS 5'	5051
SAFETY JOINT 2'	5053
PACKER top	5058
PACKER bottom	5063
DEPTH 5063	
STUBB 1'	5064
ANCHOR 15' perf	5079
1'c.o.	5080
alpine recorder	5080
94' drillpipe	5174
1' c.o.	5175
T.C.	
DEPTH	
ak-1 recorder	5175
BULLNOSE 5' bullplug	5180
T.D.	5180

TEST HISTORY

11091 DST #1 Bird 1-28 American Warrior Inc.

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2502.13
B:	0.00	70.92
C:	30.00	78.21
D:	59.00	1703.16
E:	0.00	66.37
F:	58.00	69.24
G:	61.00	1588.46
H:	0.00	2459.53

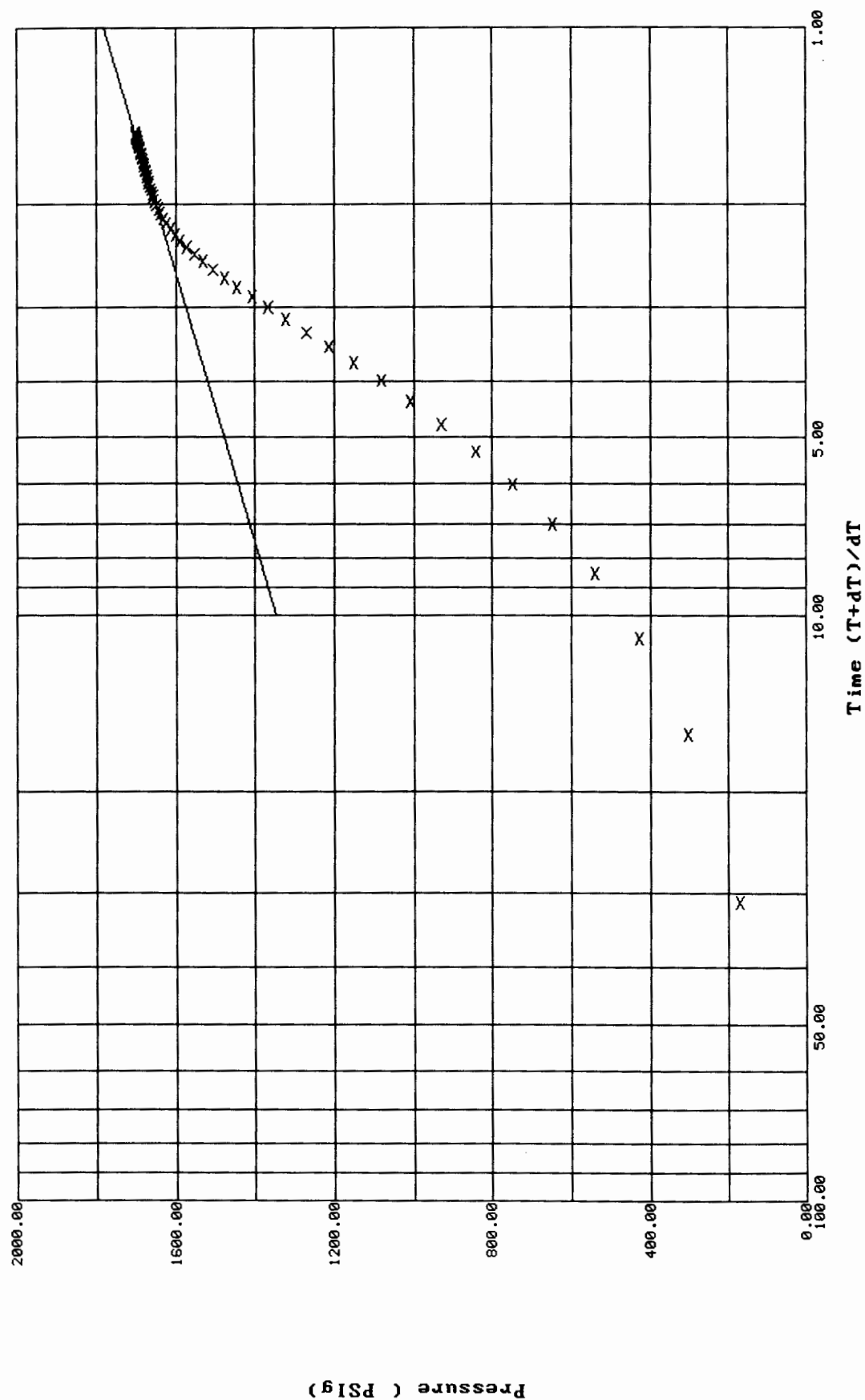


Horner Plot: shut-in #1

11091 DST #1 Bird 1-28 American Warrior Inc.

Slope: 432.1850 PSig/cycle

Ext. Pressure: 1780.2760 PSig



Horner Plot: shut-in #2

11091 DST #1 Bird 1-28 American Warrior Inc.

Slope: 477.0780 PSig/cycle

Ext. Pressure: 1773.4121 PSig

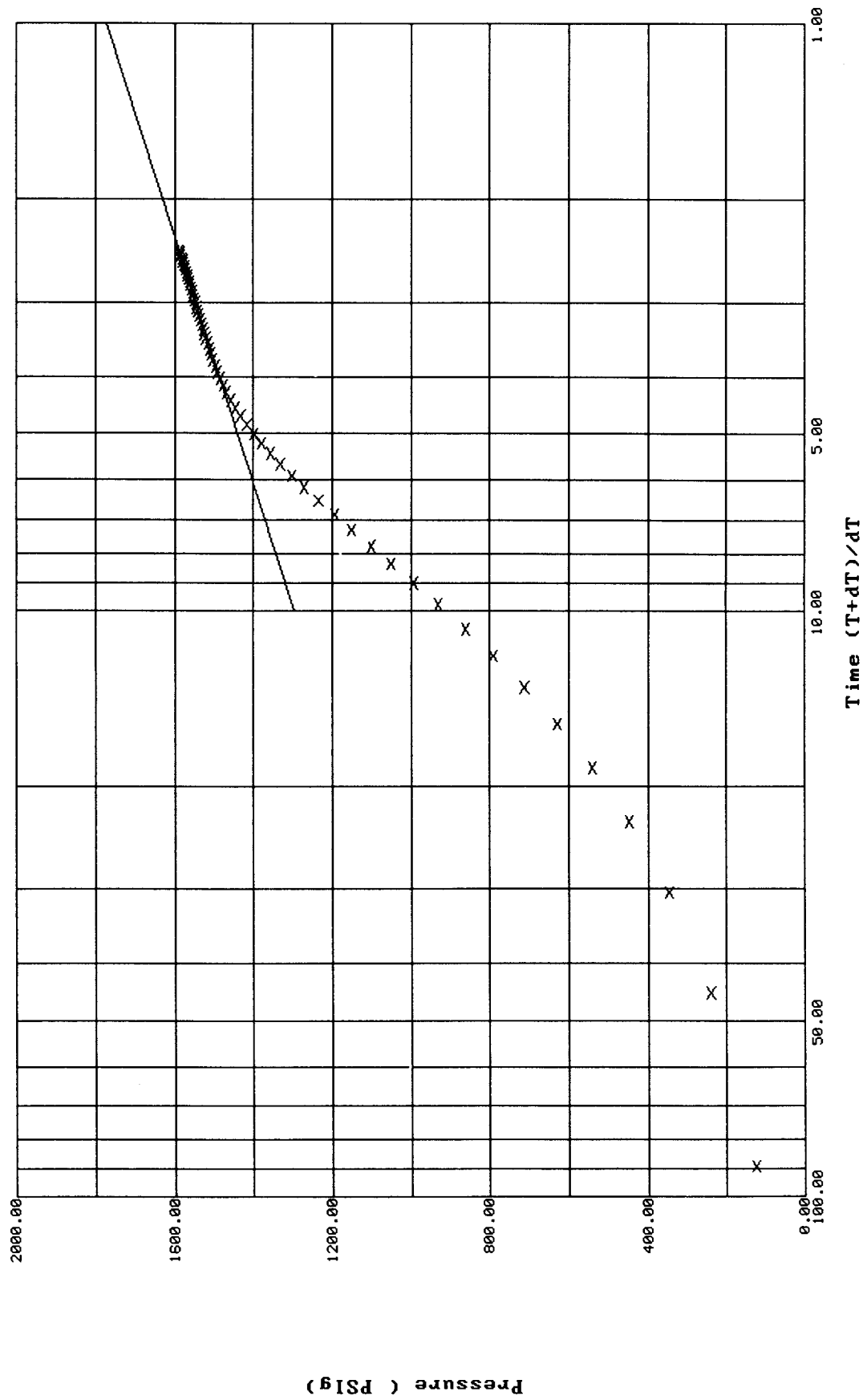
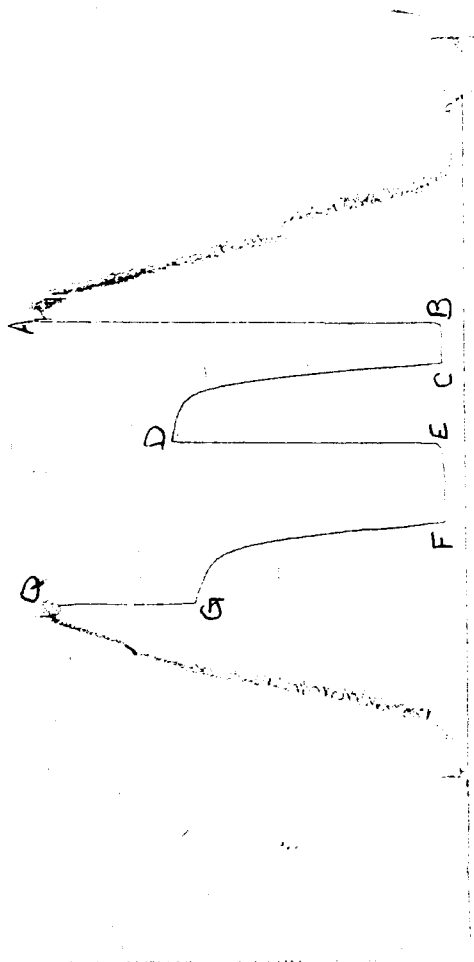


CHART PAGE

11058 #1

X



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



GAS VOLUME REPORT

American Warrior Inc.
OPERATOR

Bird 1-28

/

DST NO

54

2ND

Remarks: Gas to Surface in 14 min.
Burst Bright Orange

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

№ 11091

Well Name & No. <u>Bird 1-28</u>	Test No. <u>#1</u>	Date <u>9-23-98</u>
Company <u>American Warrior Inc.</u>	Zone Tested <u>M.S.</u>	
Address <u>P.O. Box 399 Garden City, KS 67846-0399</u>	Elevation <u>1938</u> KB <u>1925</u> GL	
Co. Rep / Geo. <u>Al Downing</u>	Cont. <u>Duke #7</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>28</u> Twp. <u>32</u> Rge. <u>19</u>	Co. <u>Comanche</u> State <u>KS</u>	
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>5063 - 5180'</u>	Initial Str Wt./Lbs. <u>9,000</u>	Unseated Str Wt./Lbs. <u>9,000</u>
Anchor Length <u>117'</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>112,000</u>
Top Packer Depth <u>5058</u>	Tool Weight <u>5,000</u>	
Bottom Packer Depth <u>5063</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>5180'</u>	Wt. Pipe Run <u> </u>	Drill Collar Run <u>351'</u>
Mud Wt. <u>9.0</u> LCM <u>#4</u> Vis. <u>54</u> WL <u>7.6</u>	Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>4804'</u>
Blow Description <u>B.O.B in 1/2 min - Gas to Surface in 14/min</u>		

I.S.I: Bleed off for 6 1/2 min - No return

F.F: Gauging Gas @ open.

F.S.I: Bleed off for 8 min - No return

Recovery — Total Feet <u>120'</u>	GIP <u>Gas to Surface</u>	Ft. in DC <u>120'</u>	Ft. in DP <u> </u>
Rec. <u>120'</u> Feet Of <u>Dilg Mud</u>	%gas <u> </u>	%oil <u> </u>	%water <u>100</u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u>	%water <u> </u> %mud <u> </u>
BHT <u>119°</u> °F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u> @ <u> </u> °F Chlorides <u> </u>	ppm Recovery Chlorides <u>8,200</u>	ppm System <u> </u>	

(A) Initial Hydrostatic Mud <u>2502</u> <u>2535</u> PSI	Recorder No. <u>2347</u>	T-Started <u>12:15 AM</u>
(B) First Initial Flow Pressure <u>70</u> <u>122</u> PSI	(depth) <u>5080'</u>	T-Open <u>02:50 AM</u>
(C) First Final Flow Pressure <u>78</u> <u>122</u> PSI	Recorder No. <u>11058</u>	T-Pulled <u>06:20 AM</u>
(D) Initial Shut-in Pressure <u>1203</u> <u>1125</u> PSI	(depth) <u>5175</u>	T-Out <u>09:00 AM</u>
(E) Second Initial Flow Pressure <u>66</u> <u>133</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u>69</u> <u>122</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure <u>1588</u> <u>1600</u> PSI	Initial Opening <u>30</u>	Test <u>X</u>
(H) Final Hydrostatic Mud <u>2459</u> <u>2513</u> PSI	Initial Shut-in <u>60</u>	Jars <u> </u>

HP:NE

HK-1

Final Flow <u>60</u>	Safety Joint <u>1</u>
Final Shut-in <u>60</u>	Straddle <u> </u>
	Circ. Sub <u>X</u> <u>11/0</u>
	Sampler <u> </u>
	Extra Packer <u> </u>
	Elect. Rec. <u>X</u> <u>150</u>
	Other <u> </u>

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

Al Downing

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior Inc.

DATE 9-25-98

WELL NAME: Bird 1-28

KB 1938.00 ft

TICKET NO: 11092

DST #2

LOCATION : 28-32s-19w Comanche co KS

GR 1925.00 ft

FORMATION: viola

INTERVAL : 5798.00 To 5850.00 ft

TD 5850.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11058	11058	2347			PF Fr. 2008 to 2023 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 2023 to 2123 hr
SF 60 Clock(hrs)	12	12	alpin			SF Fr. 2123 to 2223 hr
FS 120 Depth(ft)	5845.0	5845.0	5799.0	0.0	0.0	FS Fr. 2223 to 1223 hr

	Field	1	2	3	4	
A. Init Hydro	2872.0	2892.0	2882.0	0.0	0.0	T STARTED 1725 hr
B. First Flow	166.0	160.0	97.0	0.0	0.0	T ON BOTM 2005 hr
B1. Final Flow	133.0	137.0	114.0	0.0	0.0	T OPEN 2008 hr
C. In Shut-in	2143.0	2147.0	2150.0	0.0	0.0	T PULLED 1223 hr
D. Init Flow	166.0	162.0	97.0	0.0	0.0	T OUT 0320 hr
E. Final Flow	100.0	102.0	97.0	0.0	0.0	
F. Fl Shut-in	2143.0	2139.0	2153.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2849.0	2782.0	2786.0	0.0	0.0	Tool Wt. 5000.00 lbs
Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 110000.00 lbs
						Initial Str Wt 97000.00 lbs
						Unseated Str Wt 97000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.50 in
						D.C. Length 351.00 ft
						D.P. Length 5469.00 ft

RECOVERY

Tot Fluid 40.00 ft of 40.00 ft in DC and 0.00 ft in DP
 40.00 ft of slightly gas cut 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:

Bottom of bucket in 15 seconds

Gas to surface in 6 mins.

Initial Shutin:

Bled off in 15 min - no return

Final Flow:

Gauging gas @ open

Final Shutin:

Bled off in 12 in - no return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	49.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	137.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Shane McBride
Co. Rep.	Al Downing
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: American Warrior Inc.

DATE: 9-25-98

WELL NAME: Bird 1-28

KB Elev: 1938.00 ft TICKET #11092 DST #2

WELL LOCATION: 28-32-19

GR Elev: 1925.00 ft FORMATION: viola

INTERVAL Fr.: 5798.00 To 5850.00 T.D.: 5850.00 ft TEST TYPE: CONV.

GAS RECOVERY MEASURED WITH merla

**** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	14	0	317.0
15	0.75	16	0	344.0

**** GAS RATES FOR FLOW #2

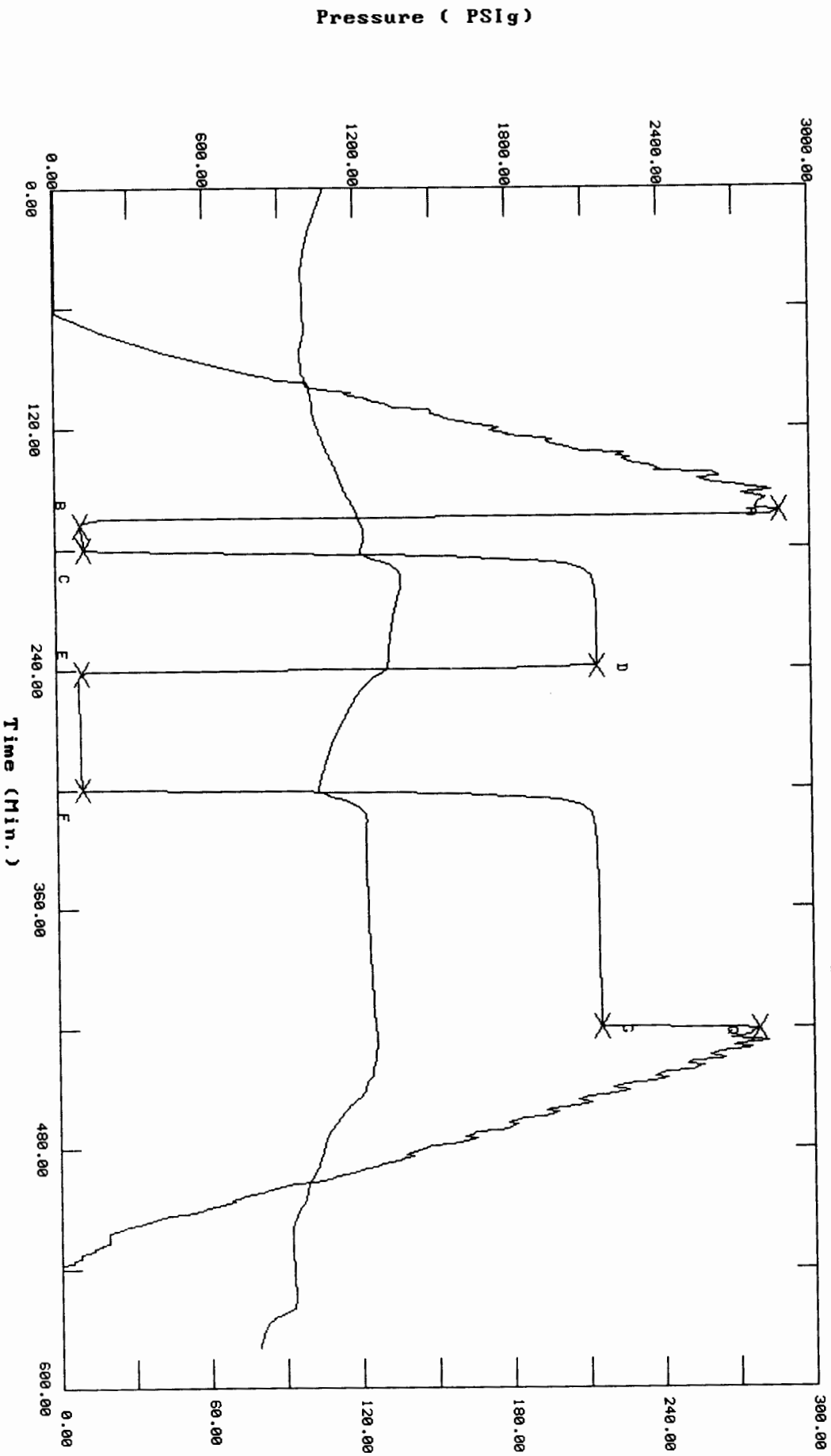
Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
0	0.75	14	0	317.0
5	0.75	16	0	344.0
10	0.75	16	0	344.0
15	0.75	17	0	357.0
20	0.75	18	0	370.0
25	0.75	18	0	370.0
30	0.75	18	0	370.0
35	0.75	18	0	370.0
40	0.75	19	0	384.0
45	0.75	19	0	384.0
50	0.75	20	0	398.0
55	0.75	20	0	398.0
60	0.75	20	0	398.0

11092 DST#2 Bird 1-28 American Warrior Inc.

TEST HISTORY

Flag Points
t (Min.) P (PSig)

A:	0.00	2882.50
B:	0.00	97.20
C:	12.00	114.60
D:	59.00	2150.53
E:	0.00	97.58
F:	58.00	97.36
G:	119.00	2153.35
H:	0.00	2786.51



*** TOOL DIAGRAM *** CONV.

WELL NAME: Bird 1-28

DATE : 28-32-19

WELL No. 11092 D.S.T. No. 2 DATE 9-25-98

WELL TOOL TO BOTTOM OF TOP PACKERS 27

WELL INTERVAL TOOL

WELL BOTTOM PACKERS AND ANCHOR 22

WELL TOOL 49

WELL COLLAR ANCHOR IN INTERVAL

WELL ANCHOR STANDS Single Total

WELL ANCHOR STANDS Single 1 Total 30

WELL ASSEMBLY 79

WELL ABOVE TOOLS STANDS Single Total 351

WELL ABOVE TOOLS STANDS Single 1 Total 5439

WELL DRILL COLLARS DRILL PIPE & TOOLS .. 5869

WELL DEPTH 5850

WELL DRILL PIPE ABOVE K.B. 19

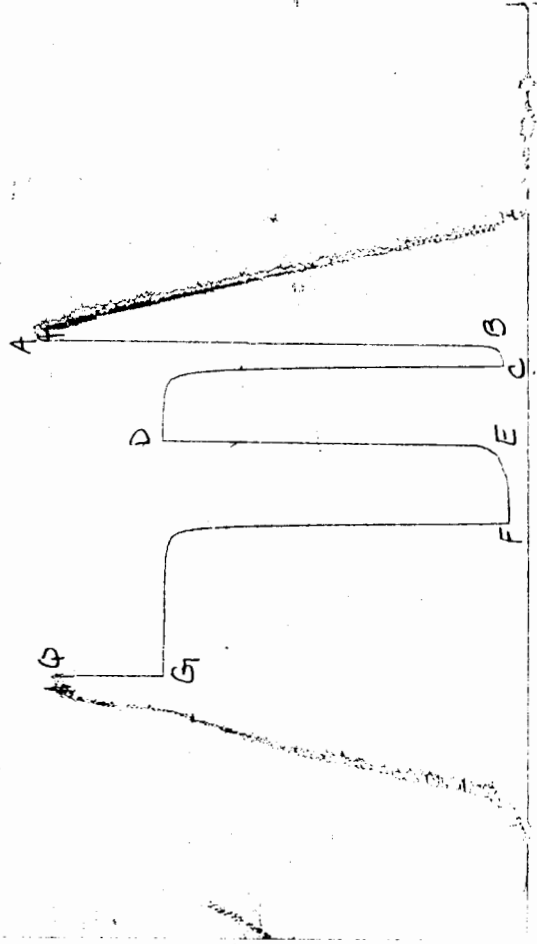
MARKS:

P.O. SUB	
C.O. SUB 1'	5770
S.I. TOOL 5'	5776
HMV 5'	5781
JARS 5'	5786
SAFETY JOINT 2'	5788
PACKER top	5793
PACKER bottom	5798
DEPTH 5850	
STUBB 1'	5799
ANCHOR alpine recorder	5799
14' perf	5813
1' c.o.	5814
30' drillpipe	5844
T.C.	
DEPTH	
1' c.o.	5845
ak-1 recorder	5845
BULLNOSE 5' bullplug	5850
T.D.	5850

CHART PAGE

1058 #2

X



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



GAS VOLUME REPORT

DST NO.

Remarks: GAS to Surface in 6 min.
Burnt Bright Orange.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11092

Well Name & No.	<u>Bird 1-28</u>	Test No.	<u>#2</u>	Date	<u>9-25-98</u>
Company	<u>American Warrior Inc.</u>	Zone Tested	<u>Viola</u>		
Address	<u>P.O. Box 399 Garden City, KS 67846-0399</u>	Elevation	<u>1938</u>	KB	<u>19.25</u> GL
Co. Rep / Geo.	<u>Al Downing</u>	Cont.	<u>Duke #7</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>28</u>	Twp.	<u>32</u>	Rge.	<u>19</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies	<u>Normal</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5798</u>	<u>5850</u>	Initial Str Wt./Lbs.	<u>97,000</u>	Unseated Str Wt./Lbs.	<u>97,000</u>
Anchor Length	<u>52</u>		Wt. Set Lbs.	<u>26,000</u>	Wt. Pulled Loose/Lbs.	<u>110,000</u>
Top Packer Depth	<u>5793</u>		Tool Weight	<u>5,000</u>		
Bottom Packer Depth	<u>5798</u>		Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5850</u>		Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>351'</u>
Mud Wt.	<u>9.2+</u>	LCM <u>6 1/2</u>	Vis. <u>49</u>	WL <u>8.8</u>	Drill Pipe Size	<u>4 1/2 x 4</u> Ft. Run <u> </u>

Blow Description B.O.B. in 15 sec. ~~Gauging~~ GAS to surface in 6 min
Bleed off for 15 min. — No return.
Gauging gas @ open.
Bleed off for 12 min. — No return

Recovery — Total Feet	<u>40'</u>	GIP	<u>G.T.S.</u>	Ft. in DC	<u>40'</u>	Ft. in DP	<u> </u>
Rec.	<u>40'</u>	Feet Of	<u>slightly gas cut mud</u>	10 %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 137° °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 8,200 ppm System

(A) Initial Hydrostatic Mud	<u>2882</u>	<u>2872</u>	PSI	Recorder No.	<u>2347</u>	T-Started	<u>17:25 pm.</u>
(B) First Initial Flow Pressure	<u>97</u>	<u>166</u>	PSI	(depth)	<u>5799</u>	T-Open	<u>20:08 P.M.</u>
(C) First Final Flow Pressure	<u>114</u>	<u>133</u>	PSI	Recorder No.	<u>11058</u>	T-Pulled	<u>12:23 A.M.</u>
(D) Initial Shut-in Pressure	<u>2150</u>	<u>2143</u>	PSI	(depth)	<u>5845'</u>	T-Out	<u>03:20 A.M.</u>
(E) Second Initial Flow Pressure	<u>97</u>	<u>166</u>	PSI	Recorder No.			
(F) Second Final Flow Pressure	<u>97</u>	<u>100</u>	PSI	(depth)			
(G) Final Shut-in Pressure	<u>2153</u>	<u>2143</u>	PSI	Initial Opening	<u>15</u>	Test	<u>X</u> <u>200</u>
(H) Final Hydrostatic Mud	<u>2786</u>	<u>2849</u>	PSI	Initial Shut-in	<u>600</u>	Jars	<u>X</u> <u>200</u>

albre AK-1
Final Flow 600 Safety Joint X 50
Final Shut-in 120 Straddle

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Approved By [Signature]

Circ. Sub X N/C
Sampler
Extra Packer
Elect. Rec. X 150
Other

TRILOBITE TESTING L.L.C.

OPERATOR : Americian Warriors

DATE 9-28-98

WELL NAME: Bird #1-23

KB 1958.00 ft

TICKET NO: 10937

DST #3

LOCATION : 28-32S-19W Comanche co KS

GR 1945.00 ft

FORMATION: Arbuckle

INTERVAL : 6116.00 To 6170.00 ft

TD 6215.00 ft

TEST TYPE: CONV. STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10993	10993	3227	13278		PF Fr. 0625 to 0640 hr
SI 30 Range(Psi)	4250.0	4250.0	4995.0	4300.0	0.0	IS Fr. 0640 to 0710 hr
SF 60 Clock(hrs)	12HR.	12HR.	Elet.	18HR.		SF Fr. 0710 to 0810 hr
FS 60 Depth(ft)	6165.0	6165.0	6148.0	6112.0	0.0	FS Fr. 0810 to 0910 hr

	Field	1	2	3	4	
A. Init Hydro	3163.0	3170.0	3184.0	3087.0	0.0	T STARTED 0345 hr
B. First Flow	445.0	453.0	378.0	0.0	0.0	T ON BOTM 0623 hr
B1. Final Flow	974.0	975.0	999.0	0.0	0.0	T OPEN 0625 hr
C. In Shut-in	2303.0	2308.0	2308.0	0.0	0.0	T PULLED 0910 hr
D. Init Flow	1113.0	1113.0	1073.0	0.0	0.0	T OUT 1330 hr
E. Final Flow	1982.0	1995.0	2012.0	0.0	0.0	
F. Fl Shut-in	2303.0	2305.0	2304.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	3004.0	3031.0	3042.0	2988.0	0.0	Tool Wt. 2500.00 lbs
Inside/Outside	O	O	I	O		Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 185000.00 lbs
						Initial Str Wt 96000.00 lbs
						Unseated Str Wt 120000.00 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 351.00 ft
						D.P. Length 5819.00 ft

RECOVERY

Tot Fluid 4000.00 ft of 351.00 ft in DC and 3649.00 ft in DP
 540.00 ft of Muddy water 40%water 60%Mud
 0.00 ft of
 3460.00 ft of 100% salt Water
 0.00 ft of
 0.00 ft of
 0.00 ft of .101 Res. 98.1 Temp.
 0.00 ft of
 0.00 ft of
 SALINITY 58000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow - bottom of bucket in
 1.5 minutes

Initial Shutin:
 Bled off 1" - 5" blow back

Final Flow:
 Strong blow - bottom of bucket in
 1.25 minutes

Final Shutin:
 Bled off 1" - 5" blow back

SAMPLES: NO
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	54.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	131.00 F
Hole Condition	Good
% Porosity	12.00
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 #	7
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV. STRADDLE

LL NAME: Bird #1-23

CATION : 28-32S-19W

CKET No. 10937 D.S.T. No. 3 DATE 9-28-98

TAL TOOL TO BOTTOM OF TOP PACKERS 27

TERVAL TOOL

TTOM PACKERS AND ANCHOR 39

TAL TOOL 66

ILL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STND.Stands Single Total

P. ANCHOR STND.Stands Single 1 Total 31

TAL ASSEMBLY

C. ABOVE TOOLS.Stands6 Single Total 351

P. ABOVE TOOLS.Stands94 Single Total 5764

TAL DRILL COLLARS DRILL PIPE & TOOLS .. 6241

TAL DEPTH 6215

TAL DRILL PIPE ABOVE K.B. 26

MARKS:

NO SAMPLER DATA

P.O. SUB Topt tool	6089
C.O. SUB 1ft	6090
S.I. TOOL Sterling	6095
HMV Sterling	6100
JARS Sterling	6105
SAFETY JOINT Bowens	6107
PACKER 5ft	6111
PACKER 5ft	6116
DEPTH	
STUBB 1ft	6117
ANCHOR	
31ft Pipe Subs	6148
Alpine Rec	6148
5ft P.U.Sub	6153
12ft Perf	6165
AK-1 Rec	6165
1ft Blank off sub	6166
T.C.	
DEPTH	
PACKER 5ft Straddle	6170
7ft Perf	6178
33ft Pipe Subs	6211
AK-1 Rec.	6212
BULLNOSE	
T.D. 4ft Bullplug	6215

TEST HISTORY

10937 DST #3 Bird #1-23 American Warriors

Flag Points

t (Min.) P (PSIg)

A:	0.00	3184.38
B:	0.00	378.90
C:	16.50	999.36
D:	41.00	2308.22
E:	0.00	1073.20
F:	48.00	2012.98
G:	62.75	2304.16
H:	0.00	3042.14

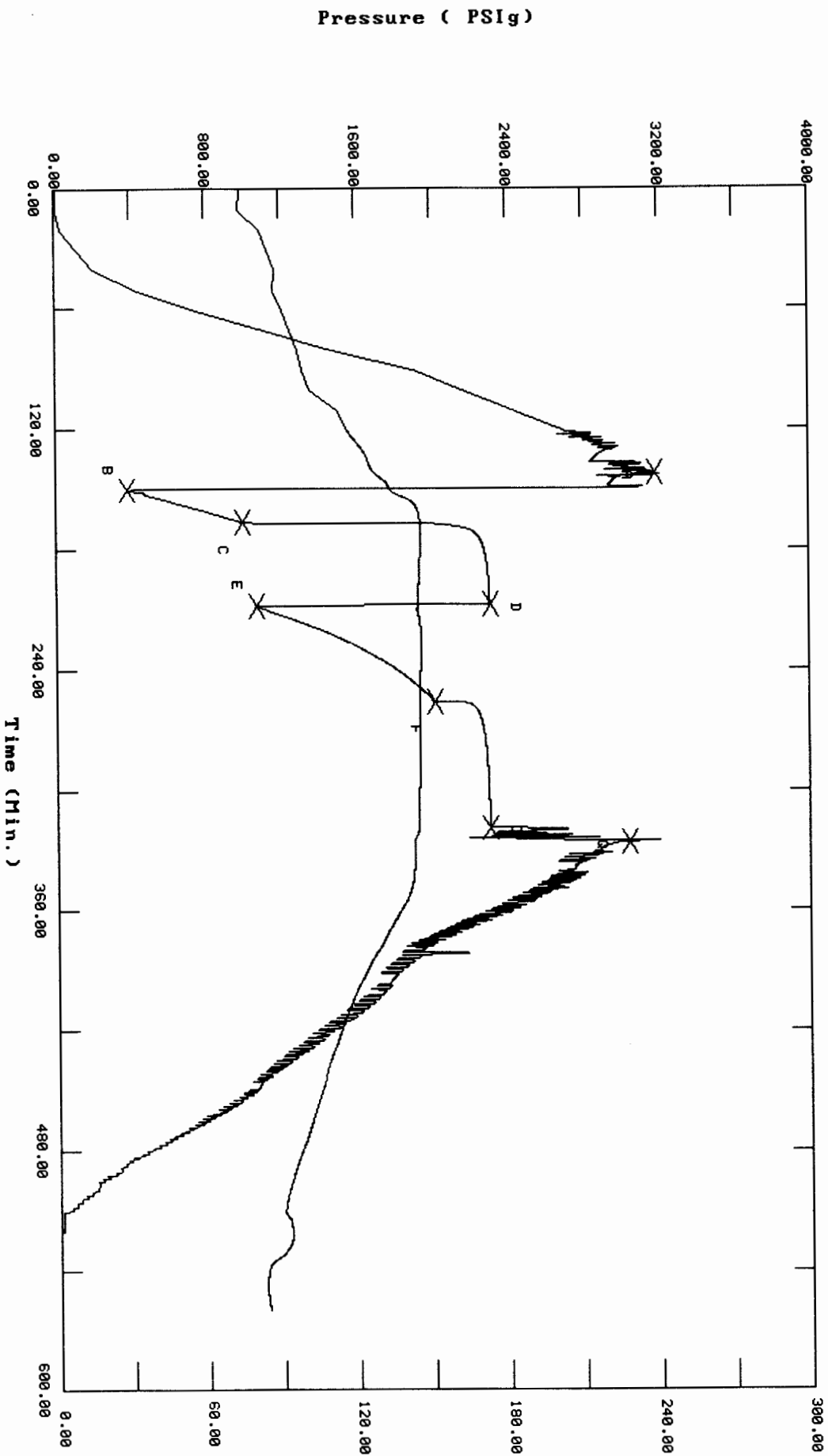
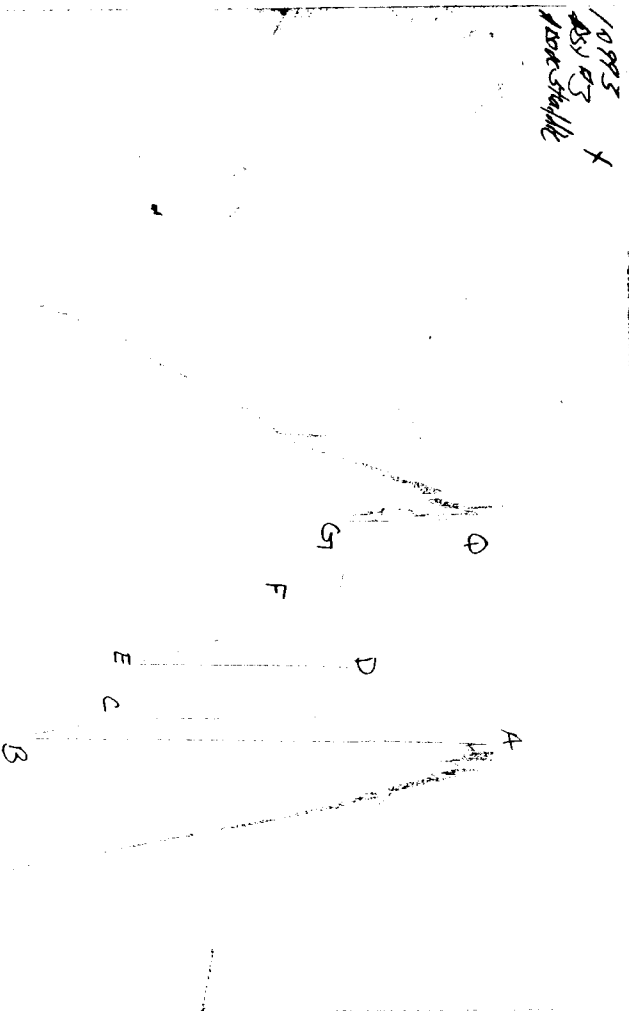


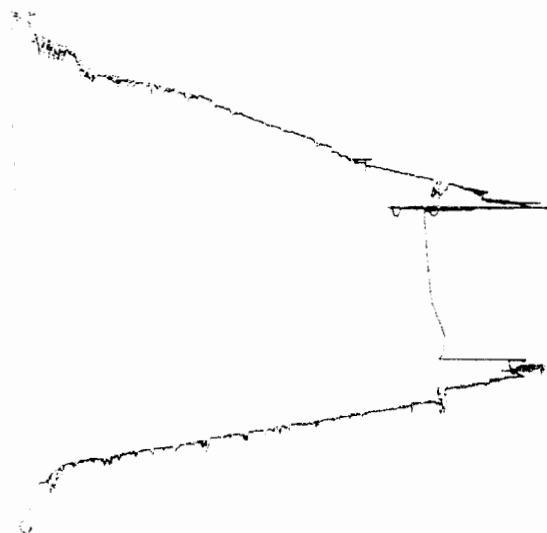
CHART PAGE



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

CHART PAGE

13778
DB #3
P411113



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

№ 10937

Well Name & No. <u>Bid #1-28</u>	Test No. <u>#3</u>	Date <u>9-28-97</u>
Company <u>American Wellco</u>	Zone Tested <u>Arbuckle</u>	
Address <u>3118 Cummings Box 399 Garden City, MO 67846</u>	Elevation <u>1958</u> KB <u>1945</u> GL	
Co. Rep / Geo. <u>Alan Downing</u>	Cont. <u>Duke Dilling Rg #7</u>	Est. Ft. of Pay <u>20</u> Por. <u>12</u> %
Location: Sec. <u>28</u> Twp. <u>32S</u> Rge. <u>19W</u>	Co. <u>Comanche State KS.</u>	
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____
	Evaluation (Y, N) _____	

Interval Tested <u>6116 - 6170</u>	Initial Str Wt./Lbs. <u>76,000</u>	Unseated Str Wt./Lbs. <u>120,000</u>
Anchor Length <u>54'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>185,000</u>
Top Packer Depth <u>6111</u>	Tool Weight <u>2,500</u>	
Bottom Packer Depth <u>6170</u>	Hole Size — 7 7/8" <u>X</u>	Rubber Size — 6 3/4" <u>X</u>
Total Depth <u>6215</u>	Wt. Pipe Run _____	Drill Collar Run <u>351'</u>
Mud Wt. <u>91</u> LCM <u>8"</u> Vis. <u>54</u> WL <u>80</u>	Drill Pipe Size <u>4 1/2"-0</u>	Ft. Run <u>5820</u>

Blow Description Strong Blow B.O.B. in 1 1/4 min
1st Bld off 2" For 4 1/2 min Had 1/2" Blow Back
2nd opening Strong Blow B.O.B. in 1 1/4 min
2nd Bld off 2" Had 1/2" Blow Back

Recovery — Total Feet <u>4000</u>	GIP _____	Ft. in DC <u>351</u>	Ft. in DP <u>3649</u>
Rec. <u>540</u> Feet Of <u>Muddy Water</u>	%gas _____	%oil _____	40 %water 60 %mud
Rec. <u>3460</u> Feet Of <u>SALT WATER</u>	%gas _____	%oil _____	100 %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 101 @ 98.1 °F Chlorides 58,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud <u>3184</u> <u>3163</u> PSI	Recorder No. <u>3027</u>	T-Started <u>3:45am</u>
(B) First Initial Flow Pressure <u>378</u> <u>445</u> PSI	(depth) <u>6148</u>	T-Open <u>6:25am</u>
(C) First Final Flow Pressure <u>999</u> <u>974</u> PSI	Recorder No. <u>10993</u>	T-Pulled <u>9:10am</u>
(D) Initial Shut-in Pressure <u>2308</u> <u>2303</u> PSI	(depth) <u>6165</u>	T-Out <u>1:30pm</u>
(E) Second Initial Flow Pressure <u>1073</u> <u>1113</u> PSI	Recorder No. <u>13278</u>	
(F) Second Final Flow Pressure <u>2012</u> <u>1982</u> PSI	(depth) <u>6112</u>	
(G) Final Shut-in Pressure <u>2304</u> <u>2303</u> PSI	Initial Opening <u>15min</u>	Test <u>Standard</u>
(H) Final Hydrostatic Mud <u>3012</u> <u>3004</u> PSI	Initial Shut-in <u>30min</u>	Jars <u>✓</u>

AK-1

Final Flow <u>60min</u>	Safety Joint <u>✓</u>
Final Shut-in <u>60min</u>	Straddle <u>✓</u>
	Circ. Sub <u>✓</u>
	Sampler <u>✓</u>
	Extra Packer <u>✓</u>
	Elect. Rec. <u>✓</u>
	Other _____

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