

15-033-21086

ORIGINAL

WELL NAME: Lenertz #2
COMPANY: American Warrior, Inc.
LOCATION: 13-32s-19w
Comanche co KS
DATE: 5/23/00

RECEIVED

KANSAS CORPORATION

JAN 24 2001

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : American Warrior, Inc.

DATE 05/15/200

WELL NAME: Lenertz-#2

KB 2063.00 ft

TICKET NO: 12837 DST #1

LOCATION : 13-32s-19w Comanche co KS

GR 2050.00 ft

FORMATION: Kansas city

INTERVAL : 4648.00 To 4676.00 ft

TD 4676.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	2350			PF Fr. 0404 to 0434 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0434 to 0534 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0534 to 0634 hr
FS 120 Depth(ft)	4673.0	4673.0	4654.0	0.0	0.0	FS Fr. 0634 to 0834 hr

	Field	1	2	3	4	
A. Init Hydro	2376.0	2363.0	2300.0	0.0	0.0	T STARTED 0137 hr
B. First Flow	85.0	75.0	57.0	0.0	0.0	T ON BOTM 0401 hr
B1. Final Flow	138.0	136.0	148.0	0.0	0.0	T OPEN 0404 hr
C. In Shut-in	1576.0	1572.0	1576.0	0.0	0.0	T PULLED 0834 hr
D. Init Flow	138.0	137.0	117.0	0.0	0.0	T OUT 1010 hr
E. Final Flow	192.0	197.0	224.0	0.0	0.0	
F. Fl Shut-in	1576.0	1581.0	1585.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2334.0	2330.0	2180.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 68000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 292.94 ft
						D.P. Length 4349.06 ft

RECOVERY

Tot Fluid 410.00 ft of 293.00 ft in DC and 117.00 ft in DP
 4232.00 ft of Gas in pipe.
 120.00 ft of Slightly gas cut muddy water
 0.00 ft of 20% gas 30% water 40% mud
 290.00 ft of Gas cut salt water
 0.00 ft of 5% gas 95% water
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 65000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Strong blow bottom of bucket in 20
 seconds. Gas to surface in 14 minutes
 Gauge gas.

Initial Shut-In:

Bled down for 10 minutes. No blow
 back.

Final Flow:

Strong blow. Bottom of bucket in 40
 seconds. Gauge gas.

Final Shut-In:

Bled down for 15 minutes. No blow
 back.

SAMPLES: Caraway analytical

SENT TO: Liberal, Ks. 67901

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	51.00 S/L
W.L.	16.00 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	121.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L. Amerine
Co. Rep.	Scott Corsair
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	none

Test Successful: Y

GAS RECOVERY

COMPANY: American Warrior, Inc.

DATE: 05/15/200

WELL NAME: Lenertz-#2

KB Elev: 2063.00 ft TICKET #12837 DST #1

WELL LOCATION: 13-32s-19w Comanche co KS

GR Elev: 2050.00 ft FORMATION: Kansas city

INTERVAL Fr.: 4648.00 To 4676.00 T.D.: 4676.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Gauge

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
19	0.25	0	28	6720.0
24	0.25	4	0	17100.0
29	0.25	4	0	18500.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.25	2	0	14300.0
20	0.25	2	0	14300.0
30	0.25	2	0	14300.0
40	0.25	2	0	14300.0
50	0.25	2	0	14300.0
60	0.25	2	0	14300.0

P.O. SUB Top of tool @	4621
C.O. SUB	4622
S.I. TOOL	4627
HMV	4632
JARS	4637
SAFETY JOINT	4639
PACKER	4643
PACKER	4648
DEPTH 4648	
1'to	4649
ANCHOR 22'of perfs.to	4671
Alpine rec.@ 4654	
Ak-1 rec.@ 4673	
BULLNOSE 5'bullnose to T.D.	4676

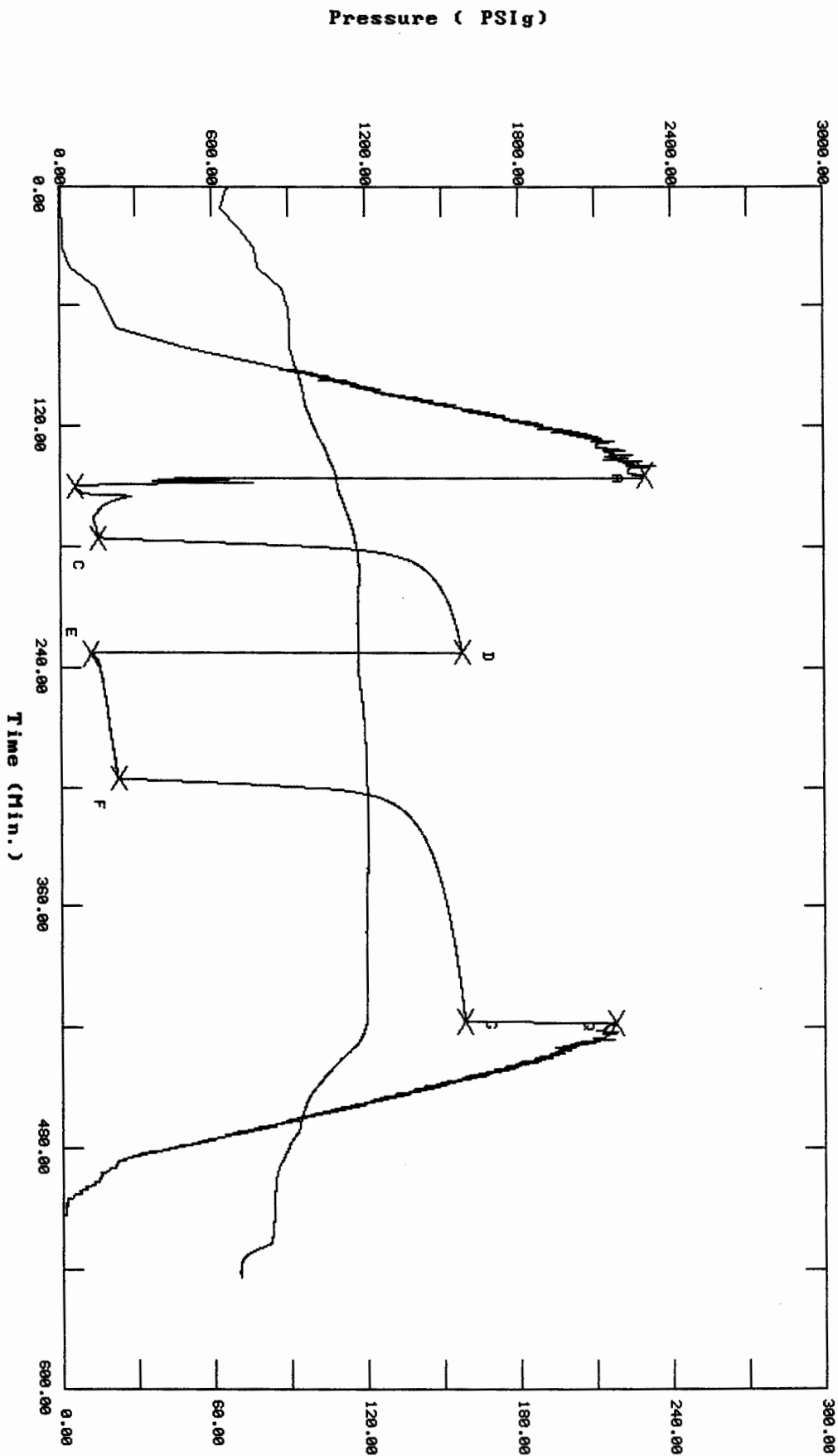
REMARKS:

TK#12837 DST#1 Lennertz-#2 American Warrior, Inc.

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A: 0.00 2300.20
B: 0.00 57.15
C: 25.75 147.96
D: 56.50 1576.32
E: 0.00 116.74
F: 62.25 223.66
G: 121.50 1584.88
H: 0.00 2180.18

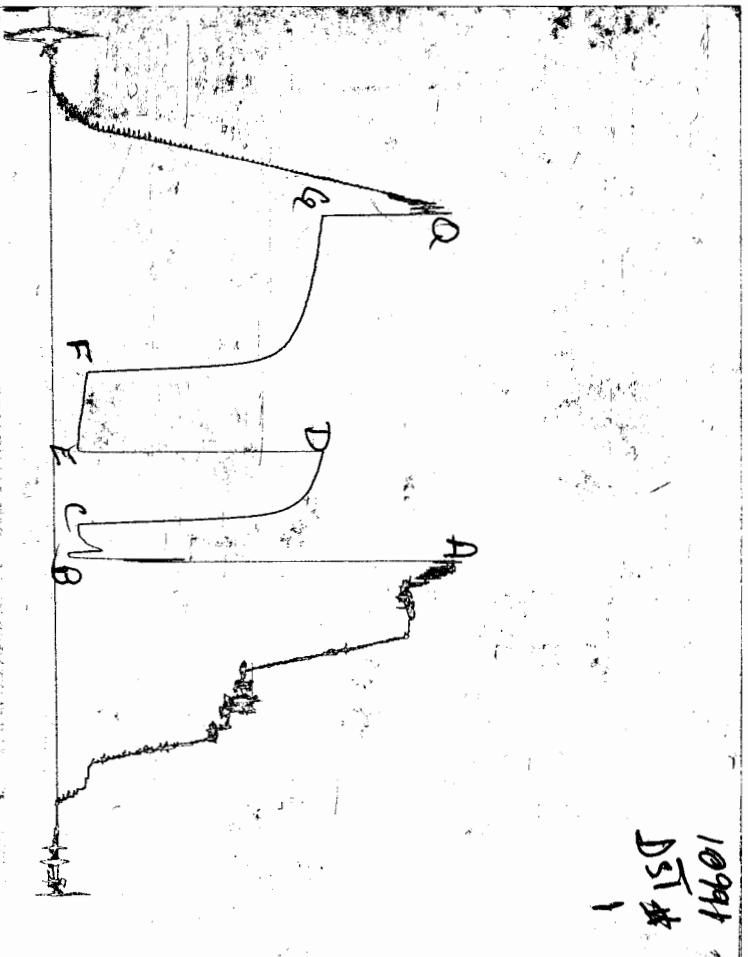


Pressure (PSig)

Temperature (DEG F)

Time (Min.)

CHART PAGE



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



GAS VOLUME REPORT

Operator American Warrior, Inc, Lenert # 2

WELL NAME AND NO.

#

DST NO

GTS in 14 mins.

Final Flow

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12837

Well Name & No.	<u>Lerertz #2</u>	Test No.	<u>#1</u>	Date	<u>05/15/2000</u>
Company	<u>American Warrior, Inc.</u>	Zone Tested	<u>Kansas City</u>		
Address	<u>P.O. box 399 Garden City, Ks 67836-0399</u>	Elevation	<u>2063</u>	KB	<u>2050</u> GL
Co. Rep / Geo.	<u>Scott Corsair</u>	Cont.	<u>Duke #7</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>13</u>	Twp.	<u>32S</u>	Rge.	<u>19W</u> Co. <u>Comanche</u> State <u>Ks</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4648 - 4676'</u>	Initial Str Wt./Lbs.	<u>68000</u>	Unseated Str Wt./Lbs.	<u>68000</u>
Anchor Length	<u>28'</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>70000</u>
Top Packer Depth	<u>4643'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>4648'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>4676</u>	Wt. Pipe Run	<u>N/A</u>	Drill Collar Run	<u>292.94</u>
Mud Wt.	<u>9.1</u> LCM <u>0</u> Vis. <u>51</u> WL <u>16.0</u>	Drill Pipe Size	<u>4 1/2 x H</u>	Ft. Run	<u>4349.06</u>
Blow Description	<u>IF: Strong blow b.o.b in 20 sec. GTS in 17 mins Gauge Gas.</u> <u>LSF: Bled down for 10 mins No blow back</u> <u>FF: Strong blow b.o.b in 70 sec. Gauge Gas</u> <u>FSI: Bled down for 15 mins No blow back.</u>				
Recovery — Total Feet	<u>410'</u>	GIP	<u>4232</u>	Ft. in DC	<u>293</u>
				Ft. in DP	<u>117'</u>
Rec.	<u>120</u>	Feet Of	<u>SGCMW</u>	20 %gas	%oil 30 %water 40 %mud
Rec.	<u>290'</u>	Feet Of	<u>65 Salt Water</u>	5 %gas	%oil 95 %water %mud
Rec.	<u>4232</u>	Feet Of	<u>Gas in pipe</u>	%gas	%oil %water %mud
Rec.		Feet Of		%gas	%oil %water %mud
Rec.		Feet Of		%gas	%oil %water %mud
BHT	<u>121'</u>	°F Gravity		°API D@	
RW	<u>.13</u>	@	<u>77</u>	°F Chlorides	<u>65,000</u> ppm Recovery Chlorides <u>6,400</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2376</u>	<u>2300</u>	PSI Recorder No.	<u>2350</u>	T-On Location <u>0045</u>
(B) First Initial Flow Pressure	<u>85</u>	<u>57</u>	PSI (depth)	<u>4654'</u>	T-Started <u>0137</u>
(C) First Final Flow Pressure	<u>138</u>	<u>148</u>	PSI Recorder No.	<u>10991</u>	T-Open <u>0104</u>
(D) Initial Shut-In Pressure	<u>1576</u>	<u>1576</u>	PSI (depth)	<u>4673'</u>	T-Pulled <u>0834</u>
(E) Second Initial Flow Pressure	<u>138</u>	<u>117</u>	PSI Recorder No.		T-Out <u>1010</u>
(F) Second Final Flow Pressure	<u>192</u>	<u>224</u>	PSI (depth)		T-Off Location <u>1115</u>
(G) Final Shut-in Pressure	<u>1576</u>	<u>1585</u>	PSI Initial Opening	<u>30</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2334</u>	<u>2180</u>	PSI Initial Shut-in	<u>60</u>	Jars <u>✓</u>
			Final Flow	<u>60</u>	Safety Joint <u>✓</u>
			Final Shut-in	<u>120</u>	Straddle <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 [Signature]
Our Representative Darren Farnelme

Circ. Sub
Sampler
Extra Packer
Elec. Rec. ✓
Mileage
Other
TOTAL PRICE \$

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior, Inc.

DATE 05/16/200

WELL NAME: Lenertz #2

KB 2063.00 ft

TICKET NO: 12838

DST #2

LOCATION : 13-32s-19w Comanche co KS

GR 2050.00 ft

FORMATION: Marmaton

INTERVAL : 4943.00 To 5004.00 ft

TD 5004.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10991	10991	2350			PF Fr. 1712 to 1727 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1727 to 1827 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1827 to 1857 hr
FS 60 Depth(ft)	5001.0	5001.0	4949.0	0.0	0.0	FS Fr. 1857 to 1957 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2410.0	0.0	0.0	T STARTED 1438 hr
B. First Flow	0.0	0.0	701.0	0.0	0.0	T ON BOTM 1709 hr
Bl. Final Flow	0.0	0.0	718.0	0.0	0.0	T OPEN 1712 hr
C. In Shut-in	0.0	0.0	1859.0	0.0	0.0	T PULLED 1957 hr
D. Init Flow	0.0	0.0	471.0	0.0	0.0	T OUT 2140 hr
E. Final Flow	0.0	0.0	738.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1840.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2330.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 76000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 292.94 ft
						D.P. Length 4660.06 ft

RECOVERY

Pot Fluid 1020.00 ft of 293.00 ft in DC and 727.00 ft in DP
 3902.00 ft of Gas in pipe.
 120.00 ft of Slightly gas & condensate cut watery mud
 0.00 ft of 5% gas 5% condensate 40% water 50% mud
 900.00 ft of Slightly gas cut water
 0.00 ft of 5% gas 95% water
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 50000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket in 20
 seconds. Gas to surface in 2 minutes.
 Gauge gas.

Initial Shut-In:
 Bled down for 20 minutes. Built back
 to 1/4".

Final Flow:
 Strong blow. Bottom of bucket in 10
 seconds. Gauge gas. Fluid to surface
 in 24 minutes.

Final Shut-In:
 Bled down for 20 minutes. Built back
 to bottom of bucket.

SAMPLES: Caraway Analytical
 SENT TO: Liberal, Ks. 67901

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	52.00 S/L
W.L.	10.20 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	126.00 F
Hole Condition	Fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L. Amerine
Co. Rep.	Al Downing
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	none

Test Successful: Y

GAS RECOVERY

COMPANY: American Warrior, Inc.

DATE: 05/16/200

WELL NAME: Lenertz #2

KB Elev: 2063.00 ft TICKET #12838 DST #2

WELL LOCATION: 13-32s-19w Comanche co KS

GR Elev: 2050.00 ft FORMATION: Marmaton

INTERVAL Fr.: 4943.00 To 5004.00 T.D.: 5004.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Gauge

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
7	0.75	50	0	756000.0
12	0.75	75	0	1046000.0
15	0.75	77	0	1069000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	84	0	1150000.0
20	0.75	78	0	1081000.0
30	0.75	60	0	872000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Lenertz #2

LOCATION : 13-32s-19w Comanche co KS

TICKET No. 12838 D.S.T. No. 2 DATE 05/16/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 61

DRILL COLLAR ANCHOR IN INTERVAL

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

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 92

D.C. ABOVE TOOLS.Stands5 Single Total 292.94

D.P. ABOVE TOOLS.Stands Single Total 4599.06

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5014

TOTAL DEPTH 5004

TOTAL DRILL PIPE ABOVE K.B. 17

REMARKS:

AK-1 clock stopped.

P.O. SUB Top of tool @	4916
C.O. SUB	4917
S.I. TOOL	4922
HMV	4927
JARS	4932
SAFETY JOINT	4934
PACKER	4938
PACKER	4943
DEPTH 4943	
1'to	4944
ANCHOR 24'of perms.to	4968
Alpine rec.@ 4949	
31'of drillpipe to	4999
Ak-1 rec. @ 5001	
BULLNOSE 5' bullnose to T.D.	5004

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20002917 Analyzed: 5/22/00
Sample From: Lenertz #2 DST 2 Pressure:
Producer: American Warrior, Inc. Temperature:
Date: Location: 13-32-19
Time: County: Comanche
Sampler: State: Kansas
Source: Formation: Marmaton

	Mole %	GPM
Helium	He: 0.264	0.000
Hydrogen	H2: 0.000	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 11.574	0.000
Carbon Dioxide	CO2: 0.087	0.000
Methane	C1: 80.681	0.000
Ethane	C2: 3.876	1.037
Propane	C3: 1.570	0.433
Iso Butane	iC4: 0.245	0.080
Normal Butane	nC4: 0.577	0.182
Iso Pentane	iC5: 0.202	0.074
Normal Pentane	nC5: 0.217	0.079
Hexanes Plus	C6+: 0.707	0.308

TOTAL: 100.000 2.192
Z Fact: 0.9978
SP.GR.: 0.6761
BTU (SAT): 989.8 @ 14.73 psia
BTU (DRY): 1007.3 @ 14.73 psia
OCTANE RATING: 111.6

COMMENTS:

=.000

Tk#12B38 DST#2 Leneritz-#2 American Warrior, Inc.

TEST HISTORY

Flag Points
t(min.) P(PSig)

A: 0.00 2410.48
B: 0.00 701.46
C: 10.00 718.25
D: 61.25 1858.57
E: 0.00 470.99
F: 27.50 737.55
G: 62.00 1839.84
H: 0.00 2329.58

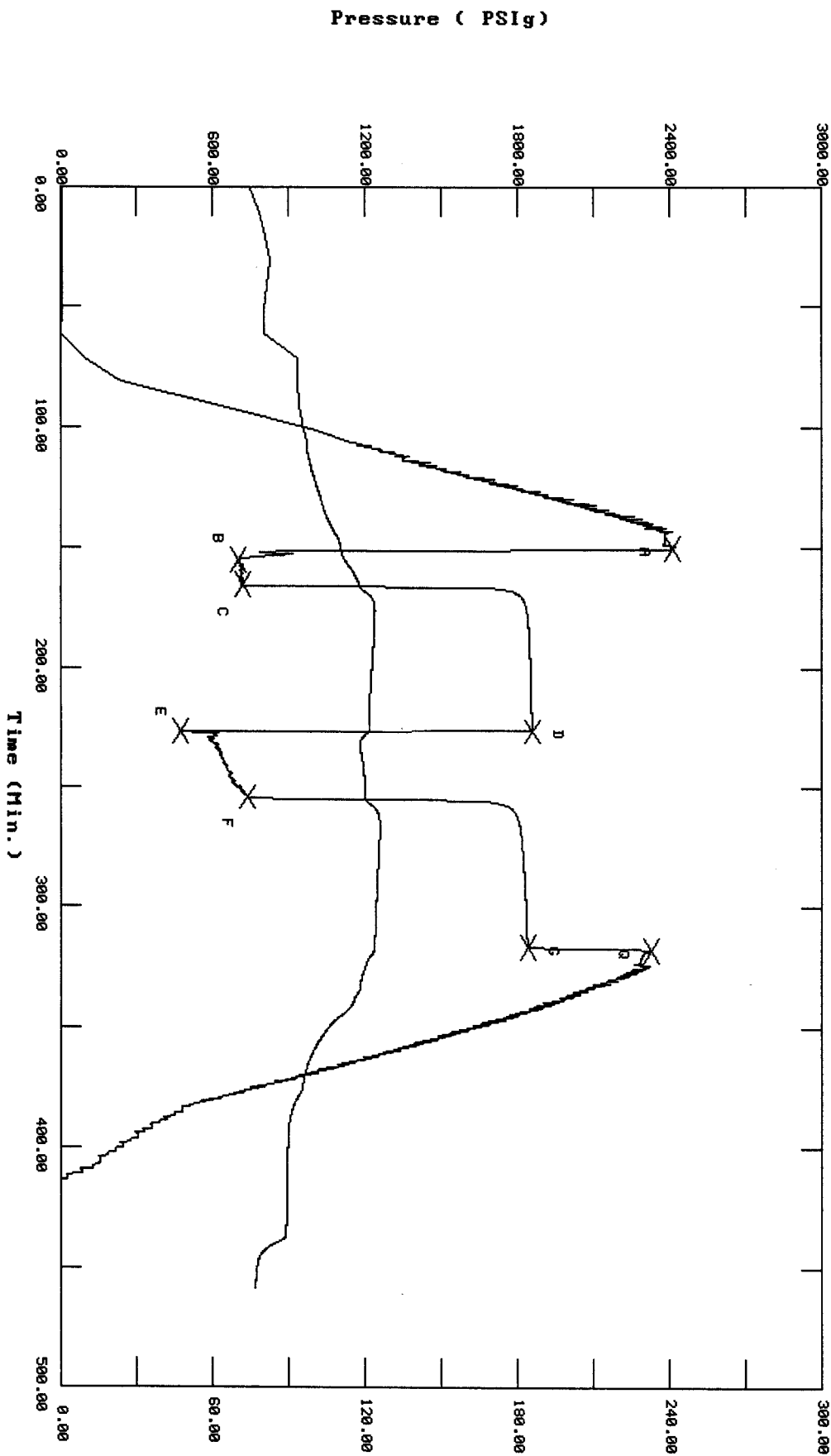
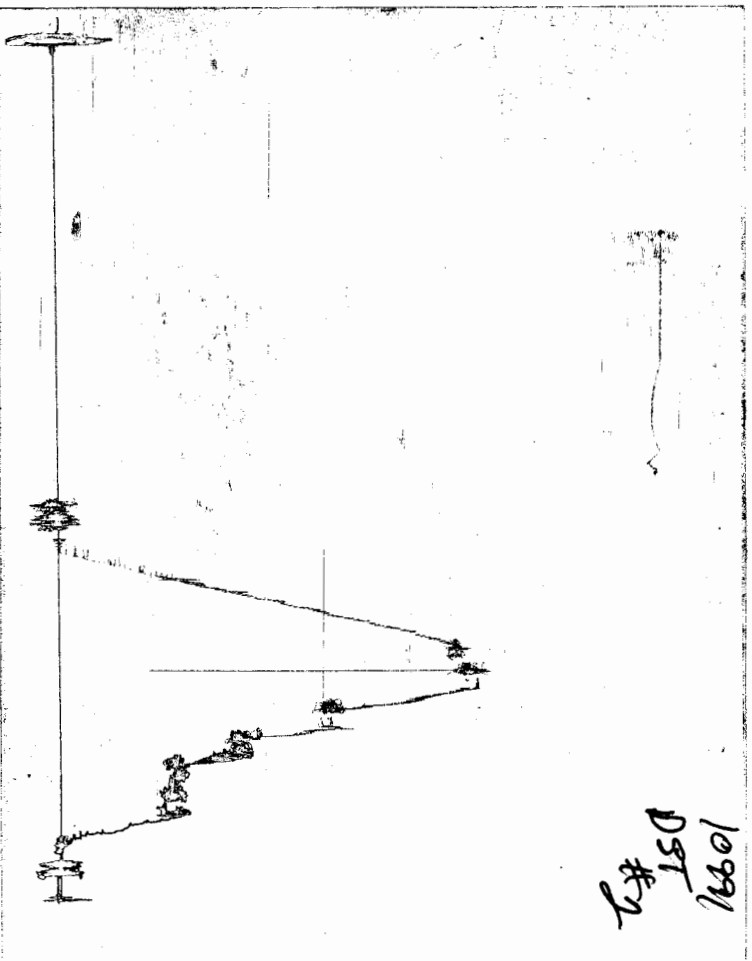


CHART PAGE



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



GAS VOLUME REPORT

Lenertz #2

WELL NAME AND NO.

Marmotas

ST NO.

67.5 in 2 mins

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

Nº 12838

Well Name & No.	<u>Lenertz #2</u>	Test No.	<u>#2</u>	Date	<u>05/16/2000</u>
Company	<u>American Warrior, Inc.</u>	Zone Tested	<u>Marmaton</u>		
Address	<u>P.O. box 399 Garden City, KS 67836-0399</u>	Elevation	<u>2063</u>	KB	<u>2050</u> GL
Co. Rep / Geo.	<u>AK Downing</u>	Cont.	<u>Duke #7</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>13</u>	Twp.	<u>32S</u>	Rge.	<u>19W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>4943' - 5004'</u>	Initial Str Wt./Lbs.	<u>88,000</u>	Unseated Str Wt./Lbs.	<u>76,000</u>
Anchor Length	<u>61'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>82,000</u>
Top Packer Depth	<u>4938'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>4943'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5004'</u>	Wt. Pipe Run	<u>N/A</u>	Drill Collar Run	<u>292.94</u>
Mud Wt.	<u>9.1</u> LCM <u>0</u> Vis. <u>52</u> WL <u>10.2</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>4660.06</u>
Blow Description	<u>IF: Strong blow 60.0 in 20 sec. GTS in 2 mins Gauge 6</u> <u>ISI: Bled down for 20 mins built back to 1/4"</u> <u>FF: Strong blow 60.0 in 10 sec. Gauge 6 fluid to surface in 24 mins</u> <u>FSI: Bled down for 20 mins. Built back to 60.0</u>				
Recovery — Total Feet	<u>1020'</u>	GIP	<u>3902'</u>	Ft. in DC	<u>273</u>
Rec.	<u>120'</u>	Feet Of	<u>56' Comanche CWM</u>	<u>5%</u> gas <u>58%</u> oil <u>40%</u> water <u>50%</u> mud	
Rec.	<u>900'</u>	Feet Of	<u>56' CW</u>	<u>5%</u> gas <u> </u> %oil <u>95%</u> water <u> </u> %mud	
Rec.	<u>3902'</u>	Feet Of	<u>Gas In pipe</u>	<u> </u> %gas <u> </u> %oil <u> </u> %water <u> </u> %mud	
Rec.	<u> </u>	Feet Of	<u> </u>	<u> </u> %gas <u> </u> %oil <u> </u> %water <u> </u> %mud	
Rec.	<u> </u>	Feet Of	<u> </u>	<u> </u> %gas <u> </u> %oil <u> </u> %water <u> </u> %mud	
BHT	<u>126"</u>	°F Gravity	<u> </u>	°API D@	<u> </u>
RW	<u>1.15</u> @ <u>73"</u>	°F Chlorides	<u>50,000</u>	ppm Recovery	<u> </u>
		Chlorides	<u>7,500</u>	ppm System	<u> </u>

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>Clock</u>	<u>2410</u>	PSI Recorder No.	<u>2350</u>	T-On Location	<u>1400</u>
(B) First Initial Flow Pressure	<u>Stopped</u>	<u>701</u>	PSI (depth)	<u>4949'</u>	T-Started	<u>1438</u>
(C) First Final Flow Pressure		<u>718</u>	PSI Recorder No.	<u>10991</u>	T-Open	<u>1712</u>
(D) Initial Shut-In Pressure		<u>1859</u>	PSI (depth)	<u>5001'</u>	T-Pulled	<u>1957</u>
(E) Second Initial Flow Pressure		<u>771</u>	PSI Recorder No.	<u> </u>	T-Out	<u>2140</u>
(F) Second Final Flow Pressure		<u>738</u>	PSI (depth)	<u> </u>	T-Off Location	<u>2230</u>
(G) Final Shut-in Pressure		<u>1840</u>	PSI Initial Opening	<u>15</u>	Test	<u>✓</u>
(Q) Final Hydrostatic Mud		<u>2330</u>	PSI Initial Shut-in	<u>60</u>	Jars	<u>✓</u>
			Final Flow	<u>30</u>	Safety Joint	<u>✓</u>
			Final Shut-in	<u>60</u>	Straddle	<u> </u>
					Circ. Sub	<u> </u>
					Sampler	<u> </u>
					Extra Packer	<u> </u>
					Elec. Rec.	<u>✓</u>
					Mileage	<u> </u>
					Other	<u> </u>
					TOTAL PRICE \$	<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 [Signature]
Our Representative Darren J. Lawrence

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior, Inc.
WELL NAME: Lenertz #2
LOCATION : 13-32s-19w Comanche co KS
INTERVAL : 5173.00 To 5193.00 ft

DATE 05/17/200
KB 2063.00 ft TICKET NO: 12839 DST #3
GR 2050.00 ft FORMATION: Mississippi
TD 5193.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 0 Rec.	10991	10991	2350			PF Fr. to hr
SI 0 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. Hit to brid hr
SF 0 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. e to hr
FS 0 Depth(ft)	5190.0	5190.0	5179.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 1815 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 2230 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 35000.00 lbs
						Wt Pulled Loose 0.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 68000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 292.94 ft
						D.P. Length 4878.06 ft

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
0.00 ft of No recovery tool was never opened
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:
Hit bridge 350-400 feet off bottom.
Could not go through it.

ISI:

FF:

FSI:

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	8.80 lb/cf
Vis.	60.00 S/L
W.L.	9.80 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	poor
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L.Amerine
Co. Rep.	Al Downing
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	none

Test Successful: N

P.O. SUB Top of tool @	5146
C.O. SUB	5147
S.I. TOOL	5152
HMV	5157
JARS	5162
SAFETY JOINT	5164
PACKER	5168
PACKER	5173
DEPTH 5173	
1'to	5174
ANCHOR 14'of perfs. to	5188
Alpine rec.5179	
Ak-1 rec.5190	
BULLNOSE 5'bullnose	5193
T.D.	

REMARKS:

TEST HISTORY

TK#12839 DST#3 Lenertz #2 American Warrior, Inc.

Flag Points
t(Min.) P (PSig)
R: 0.00 2403.10
Q: 0.00 2387.17

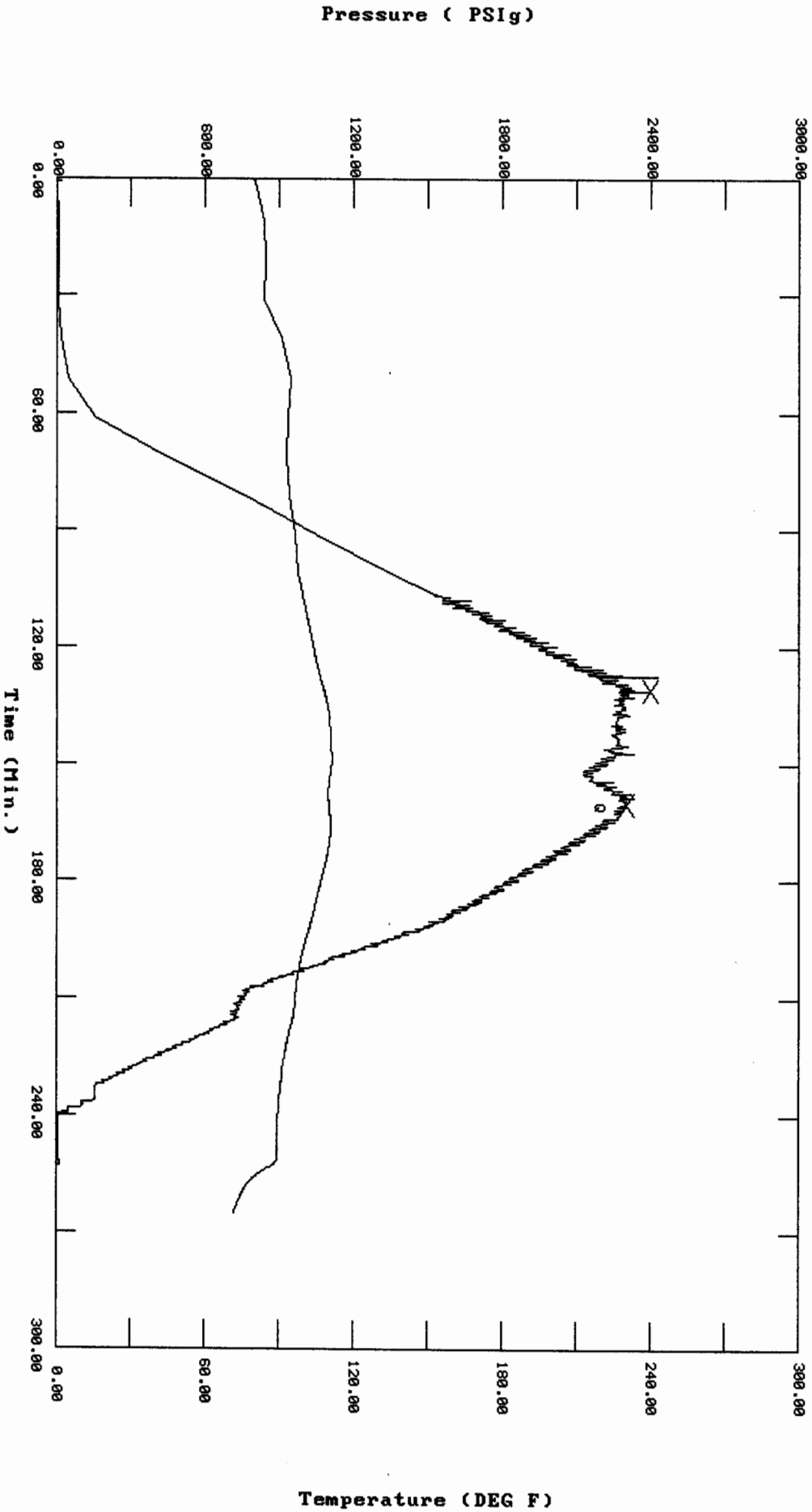
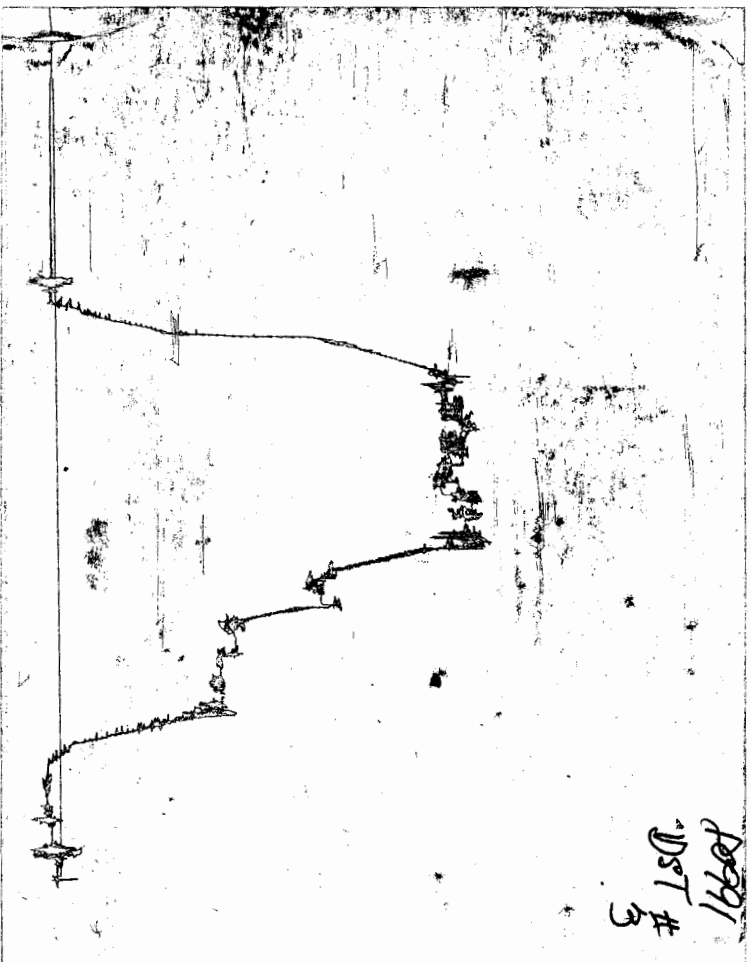


CHART PAGE



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 12839

Well Name & No. Lenertz #2 Test No. #3 Date 05/17/2000
Company American Warrior, Inc. Zone Tested M.S.S.
Address P.O. box 399 Garden City, KS 67836-0399 Elevation 2065 KB 2050 GL
Co. Rep / Geo. AL Downing Cont. Duke #7 Est. Ft. of Pay Por. %
Location: Sec. 13 Twp. 32S Rge. 19 W Co. Comanche State KS
No. of Copies 5 Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 5173' - 5193' Initial Str Wt./Lbs. 68000 Unseated Str Wt./Lbs. 68000
Anchor Length 20' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 68000
Top Packer Depth 2768' Tool Weight 2100
Bottom Packer Depth 5173' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
Total Depth 5193' Wt. Pipe Run N/A Drill Collar Run 292.94
Mud Wt. 8.8 LCM 3# Vis. 60 WL 9.8 Drill Pipe Size 4 1/2 XH Ft. Run
Blow Description IF. Hit Bridge 300' off bottom

ISI
FF
ESI

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud
Rec. <u> </u> Feet Of <u> </u>	%gas	%oil	%water	%mud

BHT °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 7,700 ppm System

AK-1	Alpine
(A) Initial Hydrostatic Mud	PSI Recorder No. <u>2350</u> T-On Location <u>18:00</u>
(B) First Initial Flow Pressure	PSI (depth) <u>5179'</u> T-Started <u>18:15</u>
(C) First Final Flow Pressure	PSI Recorder No. <u>10991</u> T-Open <u> </u>
(D) Initial Shut-In Pressure	PSI (depth) <u>5190'</u> T-Pulled <u>2100</u>
(E) Second Initial Flow Pressure	PSI Recorder No. <u> </u> T-Out <u>2230</u>
(F) Second Final Flow Pressure	PSI (depth) <u> </u> T-Off Location <u>2245</u>
(G) Final Shut-in Pressure	PSI Initial Opening <u> </u> Test <u>✓</u>
(Q) Final Hydrostatic Mud	PSI Initial Shut-in <u> </u> Jars <u>✓</u>

Final Flow Safety Joint ✓
Final Shut-in 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 [Signature]
Our Representative Darren Plummer

Circ. Sub
Sampler
Extra Packer
Elec. Rec. ✓
Mileage
Other
TOTAL PRICE \$

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior, Inc.

DATE 05/18/200

WELL NAME: Lenertz #2

KB 2063.00 ft

TICKET NO: 12840 DST #4

LOCATION : 13-32s-19w Comanche co KS

GR 2050.00 ft

FORMATION: Mississippi

INTERVAL : 5173.00 To 5193.00 ft

TD 5193.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	2350			PF Fr. 0710 to 0740 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 0740 to 0840 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0840 to 0940 hr
FS 60 Depth(ft)	5190.0	5190.0	5179.0	0.0	0.0	FS Fr. 0940 to 1040 hr

	Field	1	2	3	4	
A. Init Hydro	2565.0	2512.0	2515.0	0.0	0.0	T STARTED 0502 hr
B. First Flow	117.0	122.0	159.0	0.0	0.0	T ON BOTM 0707 hr
B1. Final Flow	128.0	122.0	169.0	0.0	0.0	T OPEN 0710 hr
C. In Shut-in	1681.0	1673.0	1704.0	0.0	0.0	T PULLED 1040 hr
D. Init Flow	192.0	191.0	187.0	0.0	0.0	T OUT 1230 hr
E. Final Flow	287.0	294.0	329.0	0.0	0.0	
F. Fl Shut-in	1608.0	1613.0	1642.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2607.0	2605.0	2498.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 100000.00 lbs
						Initial Str Wt 70000.00 lbs
						Unseated Str Wt 72000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 292.94 ft
						D.P. Length 4878.06 ft

RECOVERY

Tot Fluid 690.00 ft of 293.00 ft in DC and 397.00 ft in DP
 4480.00 ft of Gas in pipe.
 120.00 ft of Slightly oil & gas cut muddy water.
 0.00 ft of 12% gas 8% oil 60% water 20% mud
 570.00 ft of Salt water
 0.00 ft of 100% water
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	8.40 lb/cf
Vis.	63.00 S/L
W.L.	9.20 in3
F.C.	0.32 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Fair blow Bottom of bucket in 20 seconds. Gas to surface in 8 minutes. Gauge gas.

Initial Shut-In:
 Bled down for 10 minutes. Built back to 1/2" in H2O bucket.

Final Flow:
 Fair blow bottom of bucket in 2 minutes. Gauge gas.

Final Shut-In:
 Bled down for to bottom of bucket in 4 minutes.

SAMPLES: Caraway Analytical 728 N.Roosevelt
 SENT TO: Liberal, Ks. 67901

Amt. of fill	0.00 ft
Btm. H. Temp.	132.00 F
Hole Condition	Fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L. Amerine
Co. Rep.	Al Downing
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	none

Test Successful: Y

GAS RECOVERY

COMPANY: American Warrior, Inc.

DATE: 05/18/200

WELL NAME: Lenertz #2

KB Elev: 2063.00 ft TICKET #12840 DST #4

WELL LOCATION: 13-32s-19w Comanche co KS

GR Elev: 2050.00 ft FORMATION: Mississippi

INTERVAL Fr.: 5173.00 To 5193.00 T.D.: 5193.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla gauge

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
13	0.25	0	32	9500.0
18	0.25	0	34	9790.0
23	0.25	0	56	12600.0
28	0.25	2	0	12700.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.25	2	0	12700.0
20	0.25	2	0	14300.0
30	0.25	2	0	12700.0
40	0.25	2	0	12700.0
50	0.25	0	26	8560.0
60	0.25	0	22	7880.0

P.O. SUB Top of tool @	5146
C.O. SUB	5147
S.I. TOOL	5152
HMV	5157
JARS	5162
SAFETY JOINT	5164
PACKER	5168
PACKER	5173
DEPTH 5173	
1'to	5174
ANCHOR 14'of perfs.to	5188
Alpine rec. @ 5179	
	5188
Ak-1 rec.@ 5190	
BULLNOSE 5' bullnose to	5193
T.D.	

LOCATION : 13-32s-19w Comanche co KS

TICKET No. 12840 D.S.T. No. 4 DATE 05/18/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL	51
------------------	----

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR	STND.Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
31	1	1	1
32	1	1	1
33	1	1	1
34	1	1	1
35	1	1	1
36	1	1	1
37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
43	1	1	1
44	1	1	1
45	1	1	1
46	1	1	1
47	1	1	1
48	1	1	1
49	1	1	1
50	1	1	1
51	1	1	1
52	1	1	1
53	1	1	1
54	1	1	1
55	1	1	1
56	1	1	1
57	1	1	1
58	1	1	1
59	1	1	1
60	1	1	1
61	1	1	1
62	1	1	1
63	1	1	1
64	1	1	1
65	1	1	1
66	1	1	1
67	1	1	1
68	1	1	1
69	1	1	1
70	1	1	1
71	1	1	1
72	1	1	1
73	1	1	1
74	1	1	1
75	1	1	1
76	1	1	1
77	1	1	1
78	1	1	1
79	1	1	1
80	1	1	1
81	1	1	1
82	1	1	1
83	1	1	1
84	1	1	1
85	1	1	1
86	1	1	1
87	1	1	1
88	1	1	1
89	1	1	1
90	1	1	1
91	1	1	1
92	1	1	1
93	1	1	1
94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.Stands	Single	Total
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
24	24	24
25	25	25
26	26	26
27	27	27
28	28	28
29	29	29
30	30	30
31	31	31
32	32	32
33	33	33
34	34	34
35	35	35
36	36	36
37	37	37
38	38	38
39	39	39
40	40	40
41	41	41
42	42	42
43	43	43
44	44	44
45	45	45
46	46	46
47	47	47
48	48	48
49	49	49
50	50	50
51	51	51
52	52	52
53	53	53
54	54	54
55	55	55
56	56	56
57	57	57
58	58	58
59	59	59
60	60	60
61	61	61
62	62	62
63	63	63
64	64	64
65	65	65
66	66	66
67	67	67
68	68	68
69	69	69
70	70	70
71	71	71
72	72	72
73	73	73
74	74	74
75	75	75
76	76	76
77	77	77
78	78	78
79	79	79
80	80	80
81	81	81
82	82	82
83	83	83
84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands5	Single	Total 292.94
--------------------------	--------	--------------

D.P. ABOVE TOOLS.Stands78 Single 1 Total 4878.06

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5222

TOTAL DEPTH 5193

TOTAL DRILL PIPE ABOVE K.B. 28

REMARKS:

NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L. L. C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 913-625-5620

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

Lab Number: 20002918	Analyzed: =5/22/00
Sample From: Lenertz #2 DST 4	Pressure:
Producer: American Warrior, Inc.	Temperature:
Date:	Location: 13-32-19
Time:	County: Comanche
Sampler:	State: Kansas
Source:	Formation: Miss

	Mole %	GPM
Helium	He: 0.086	0.000
Hydrogen	H2: 0.009	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 1.350	0.000
Carbon Dioxide	CO2: 0.030	0.000
Methane	C1: 93.231	0.000
Ethane	C2: 3.050	0.816
Propane	C3: 1.076	0.296
Iso Butane	iC4: 0.168	0.055
Normal Butane	nC4: 0.348	0.110
Iso Pentane	iC5: 0.120	0.044
Normal Pentane	nC5: 0.127	0.046
Hexanes Plus	C6+: 0.405	0.177
TOTAL:		100.000 1.543
Z Fact:		0.9977
SP.GR.:		0.6093
BTU (SAT):		1056.4 @ 14.73 psia
BTU (DRY):		1075.1 @ 14.73 psia
OCTANE RATING:		126.1

COMMENTS:

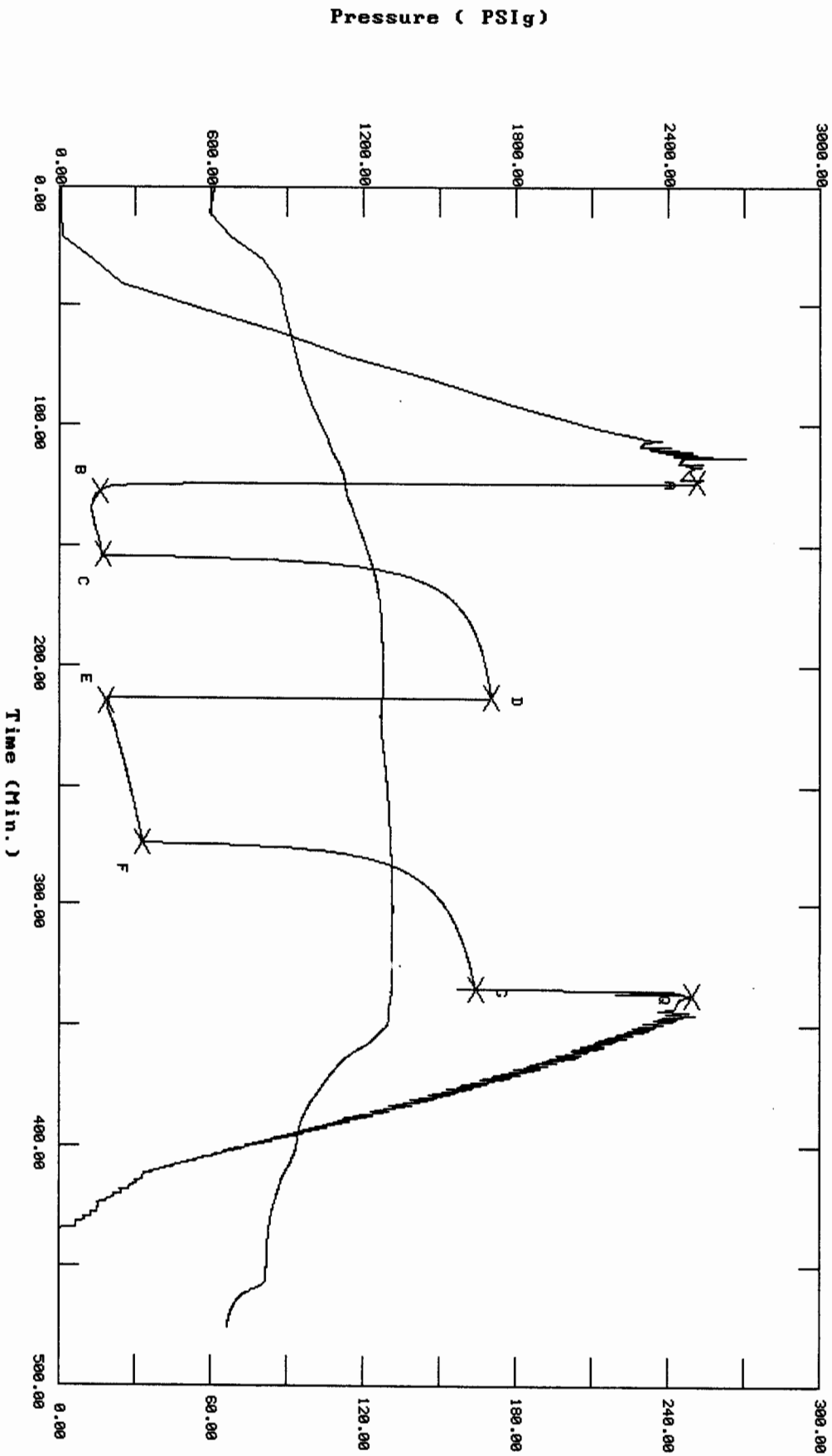
=.000

TK#12840 DST#4 Lenertz#2 American Warrior, Inc.

TEST HISTORY

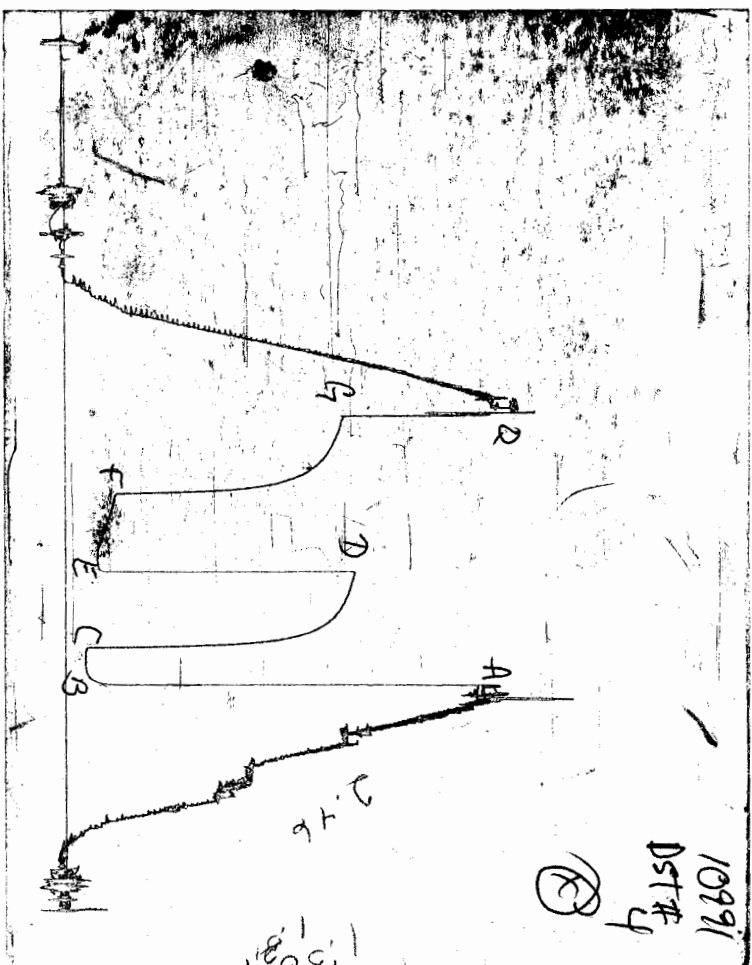
Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2515.22
B:	0.00	159.45
C:	26.50	169.27
D:	59.00	1704.48
E:	0.00	186.65
F:	59.00	329.41
G:	61.00	1641.96
H:	0.00	2497.52



Temperature (DEG F)

CHART PAGE



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



GAS VOLUME REPORT

American Warrior, Inc.
OPERATOR

Lenertz

WELL NAME AND NO.

(M.55)

#4
DBT NC

DST NO

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12840

Well Name & No.	<u>Lenertz #2</u>	Test No.	<u>#4</u>	Date	<u>05/18/2000</u>
Company	<u>American Warrior</u>	Zone Tested	<u>(Miss)</u>		
Address	<u>P.O. Box 399 Garden City, KS. 67836-0399</u>	Elevation	<u>2063</u>	KB	<u>2050</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>13</u>	Twp.	<u>32S</u>	Rge.	<u>19W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u> </u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5173 - 5193</u>	Initial Str Wt./Lbs.	<u>70,000</u>	Unseated Str Wt./Lbs.	<u>23,000</u>
Anchor Length	<u>20'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>100,000</u>
Top Packer Depth	<u>5168'</u>	Tool Weight	<u>2100</u>		
Bottom Packer Depth	<u>5173'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5193'</u>	Wt. Pipe Run	<u>N/A</u>	Drill Collar Run	<u>292.94</u>
Mud Wt. <u>8.4</u> LCM <u>2#</u> Vis. <u>63</u> WL <u>9.2</u>		Drill Pipe Size	<u>4 1/2 x 4</u>	Ft. Run	<u>4878.06</u>
Blow Description	<u>IF: Fair blow 60.6 in 2 mins 675 in 8 mins Gauge Bad</u> <u>IST: Bled down for 10 mins built back to 1/2" in #120 bucket</u> <u>FF: Fair blow 60.6 in 2 mins Gauge Bad</u> <u>FST: Bled down for 10 mins built back to 60.6 in 4 mins</u>				
Recovery — Total Feet	<u>690'</u>	GIP	<u>4480'</u>	Ft. in DC	<u>293</u>
Rec. <u>120</u>	Feet Of	<u>SOC 6CMW</u>	<u>12</u> %gas	<u>8</u> %oil	<u>60</u> %water <u>20</u> %mud
Rec. <u>570'</u>	Feet Of	<u>Salt Water</u>	%gas	%oil	<u>100</u> %water %mud
Rec. <u>4480'</u>	Feet Of	<u>Gas In Pipe</u>	%gas	%oil	%water %mud
Rec. <u> </u>	Feet Of		%gas	%oil	%water %mud
Rec. <u> </u>	Feet Of		%gas	%oil	%water %mud
BHT <u>132°</u>	°F Gravity	°API D@		°F Corrected Gravity	°API
RW <u>.09</u> @ <u>73°</u>	°F Chlorides	<u>80,000</u>	ppm Recovery	Chlorides <u>7700</u>	ppm System

(A) Initial Hydrostatic Mud	<u>2565</u>	AK-1	<u>2515</u>	Alpine	PSI Recorder No.	<u>2350</u>	T-On Location	<u>0445</u>
(B) First Initial Flow Pressure	<u>117</u>		<u>159</u>		PSI (depth)	<u>5179'</u>	T-Started	<u>0502</u>
(C) First Final Flow Pressure	<u>128</u>		<u>169</u>		PSI Recorder No.	<u>10991</u>	T-Open	<u>0710</u>
(D) Initial Shut-In Pressure	<u>1681</u>		<u>1704</u>		PSI (depth)	<u>5190'</u>	T-Pulled	<u>1040</u>
(E) Second Initial Flow Pressure	<u>192</u>		<u>187</u>		PSI Recorder No.		T-Out	<u>1230</u>
(F) Second Final Flow Pressure	<u>287</u>		<u>329</u>		PSI (depth)		T-Off Location	<u>2400</u>
(G) Final Shut-in Pressure	<u>1608</u>		<u>1642</u>		PSI Initial Opening	<u>30</u>	Test	<u>✓</u>
(Q) Final Hydrostatic Mud	<u>2607</u>		<u>2498</u>		PSI Initial Shut-in	<u>60</u>	Jars	<u>✓</u>
					Final Flow	<u>60</u>	Safety Joint	<u>✓</u>
					Final Shut-in	<u>60</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 Alan
Our Representative Darren Schreiner

Extra Packer
Elec. Rec. ✓
Mileage
Other
TOTAL PRICE \$

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior, Inc.

DATE 5-20-2000

WELL NAME: Lenertz #2

KB 2066.00 ft

TICKET NO: 12544 DST # 5

LOCATION : 13-32s-19w Comanche co KS

GR 2053.00 ft

FORMATION: Viola

INTERVAL : 5674.00 To 5715.00 ft

TD 5715.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	13278	13278	2357			PF Fr. 1225 to 1240 hr
SI 60 Range(Psi)	4400.0	4400.0	5000.0	0.0	0.0	IS Fr. 1240 to 1340 hr
SF 15 Clock(hrs)	12HR	12HR	ELECT			SF Fr. 1340 to 1355 hr
FS 90 Depth(ft)	5712.0	5712.0	5675.0	0.0	0.0	FS Fr. 1355 to 1525 hr

	Field	1	2	3	4	
A. Init Hydro	2724.0	2748.0	2758.0	0.0	0.0	T STARTED 1038 hr
B. First Flow	1810.0	1807.0	1773.0	0.0	0.0	T ON BOTM 1223 hr
Bl. Final Flow	1810.0	1797.0	1791.0	0.0	0.0	T OPEN 1225 hr
C. In Shut-in	2008.0	2000.0	2035.0	0.0	0.0	T PULLED 1525 hr
D. Init Flow	1777.0	1765.0	1704.0	0.0	0.0	T OUT 1845 hr
E. Final Flow	1777.0	1765.0	1781.0	0.0	0.0	
F. Fl Shut-in	1997.0	1982.0	2028.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2702.0	2706.0	2739.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	I	I	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 2000.00 lbs
						Initial Str Wt 74000.00 lbs
						Unseated Str Wt 76000.00 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 292.00 ft
						D.P. Length 5380.00 ft

RECOVERY

Tot Fluid 2.00 ft of 2.00 ft in DC and 0.00 ft in DP
 5670.00 ft of Gas in pipe.
 2.00 ft of Condensate
 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:
 Very strong blow bottom of bucket in
 15 seconds. Gas to surface in 1 1/2
 minutes.

Initial Shut-In:

1" blow back.

Final Flow:

Bottom of bucket immediately.

Final Shut-In:

Surface blow back.

Gas will burn.

SAMPLES: Caught one sample

SENT TO: Caraway

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/cf
Vis.	53.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop Y	20.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	132.00 F
Hole Condition	Good
% Porosity	18.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Brad Bortz
Co. Rep.	Al Downing
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: American Warrior, Inc.

DATE: 5-20-2000

WELL NAME: Lenertz #2

KB Elev: 2066.00 ft TICKET #12544 DST # 5

WELL LOCATION: 13-32s-19w Comanche co KS

GR Elev: 2053.00 ft FORMATION: Viola

INTERVAL Fr.: 5674.00 To 5715.00 T.D.: 5715.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH 2" MERLA ORFICE

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	95	0	6439000.0
10	1.50	125	0	8237000.0
15	1.50	145	0	9437000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.50	100	0	6737000.0
10	1.50	155	0	10037000.0
15	1.50	180	0	11537000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Lenertz #2

LOCATION : 13-32s-19w Comanche co KS

TICKET No. 12544 D.S.T. No. 5 DATE 5-20-2000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 41

TOTAL TOOL 68

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands 5 Single Total 292

D.P. ABOVE TOOLS.Stands 86 Single 1 Total 5380

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5740

TOTAL DEPTH 5715

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

P.O. SUB Cir sub	5587
C.O. SUB Top of tool	5647
Double pin	5648
S.I. TOOL Sterling	5653
HMV Sterling	5658
JARS Sterling	5663
SAFETY JOINT Sterling	5665
PACKER Sparton	5670
PACKER Sparton	5674
DEPTH	
1 ft.	5675
ANCHOR Alpine	5675
Pu. sub	5680
AK-1	5712
33 ft. perfs.	5713
BULLNOSE 2 ft. perfs.	
T.D.	5715

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20002898
Sample From: Lenertz #2 DST 5
Producer: American Warrior, Inc.
Date:
Time:
Sampler:
Source:

Analyzed: 05/22/00
Pressure:
Temperature:
Location: 13-32-19
County: Comanche
State: Kansas
Formation: Viola

	Mole %	GPM
Helium	He: 0.801	0.000
Hydrogen	H2: 0.021	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 17.954	0.000
Carbon Dioxide	CO2: 0.170	0.000
Methane	C1: 71.582	0.000
Ethane	C2: 5.390	1.442
Propane	C3: 2.396	0.660
Iso Butane	iC4: 0.303	0.099
Normal Butane	nC4: 0.723	0.228
Iso Pentane	iC5: 0.152	0.056
Normal Pentane	nC5: 0.205	0.074
Hexanes Plus	C6+: 0.303	0.132

TOTAL: 100.000 2.691
Z Fact: 0.9979
SP.GR.: 0.7073
BTU (SAT): 929.7 @ 14.73 psia
BTU (DRY): 946.1 @ 14.73 psia
OCTANE RATING: 102.2

COMMENTS:

0.000

12544 DST #5 Lenertz #2 American Warrior, Inc.

TEST HISTORY

Flag Points

	t (Min.)	P (PSig)
A:	0.00	2759.84
B:	0.00	1773.72
C:	13.75	1791.50
D:	60.25	2035.35
E:	0.00	1704.54
F:	14.75	1781.07
G:	90.75	2028.76
H:	0.00	2739.05

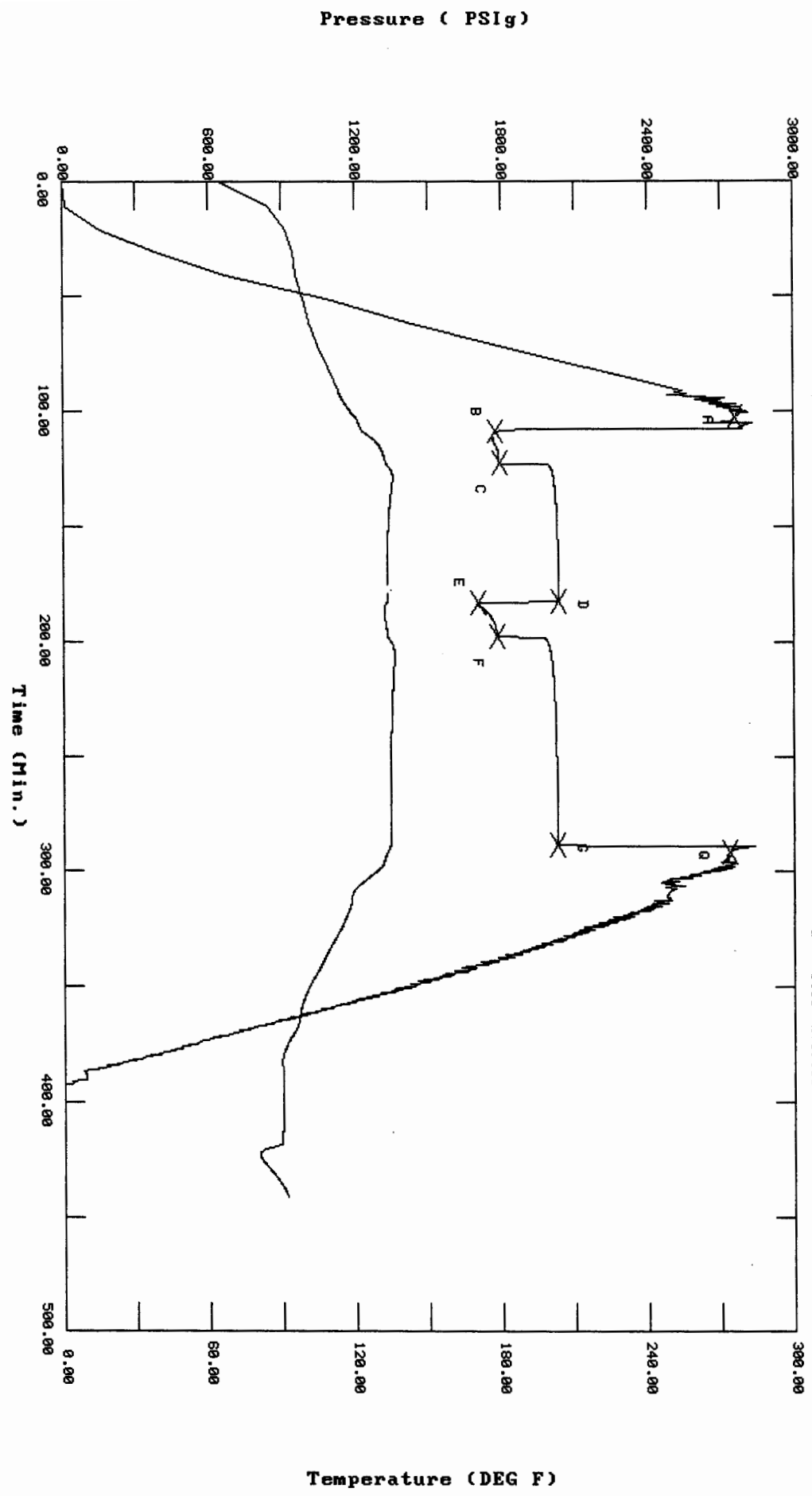
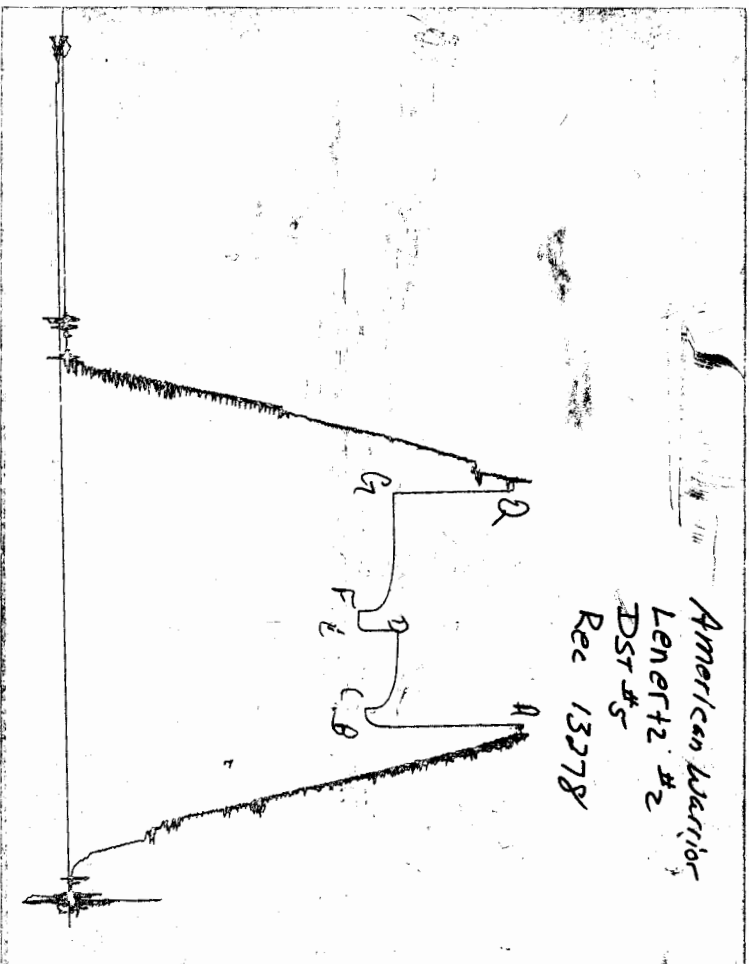


CHART PAGE

American Warrior
Lener #2
DST #5
Rec 13278



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



GAS VOLUME REPORT

Lenertz

±2

WELL NAME AND NO.

1
DST NO.

1st Flow

2nd Flow

Remarks: Caught 1-Smpl Sent to Carraway
gas will burn.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12544

Well Name & No. <u>Lener #2</u>	Test No. <u>5</u>	Date <u>5-20-2000</u>
Company <u>American Warrior</u>	Zone Tested <u>Viola</u>	
Address <u>Garden city KS, 67834, P.O. Box 399</u>	Elevation <u>20636</u> KB <u>2053</u> GL	
Co. Rep / Geo. <u>Al Downing</u>	Cont. <u>Duke #7</u>	Est. Ft. of Pay <u>30</u> Por. <u>18</u> %
Location: Sec. <u>13</u> Twp. <u>32S</u> Rge. <u>19 W</u>	Co. <u>Camenche</u>	State <u>KS</u>
No. of Copies <u>R</u> Distribution Sheet (Y, N) <u>R</u>	Turnkey (Y, N) <u>—</u>	Evaluation (Y, N) <u>—</u>

Interval Tested <u>5674-5715</u>	Initial Str Wt./Lbs. <u>74,000</u>	Unseated Str Wt./Lbs. <u>74,000</u>
Anchor Length <u>41'</u> tool <u>27'</u>	Wt. Set Lbs. <u>25,000</u>	Wt. Pulled Loose/Lbs. <u>2,000</u>
Top Packer Depth <u>4669</u>	Tool Weight <u>1,800</u>	
Bottom Packer Depth <u>5674</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>5715</u>	Wt. Pipe Run <u>86 stands 1.5 single</u>	Drill Collar Run <u>292'</u>
Mud Wt. <u>9.2</u> LCM <u>3</u> Vis. <u>53</u> WL <u>9.2</u>	Drill Pipe Size <u>4 1/2 x H.</u>	Ft. Run <u>5380 25' up</u>
Blow Description <u>Very Strong Blow O.B.B in 15 sec, G.T.S. in 1 1/2 min I.F.P.</u>		
<u>1" Blow back I.S.I.P</u>		
<u>B.O.B. Immediately</u>		
<u>Surface Blow Back</u>		
<u>See gas Flow Chart</u>		
Recovery — Total Feet <u>2'</u>	GIP <u>5670</u>	Ft. in DC <u>2'</u> Ft. in DP <u>—</u>
Rec. <u>2'</u>	Feet Of <u>Condinsate</u>	%gas %oil %water %mud
Rec. <u>—</u>	Feet Of <u>—</u>	%gas %oil %water %mud
Rec. <u>—</u>	Feet Of <u>—</u>	%gas %oil %water %mud
Rec. <u>—</u>	Feet Of <u>—</u>	%gas %oil %water %mud
Rec. <u>—</u>	Feet Of <u>—</u>	%gas %oil %water %mud
BHT <u>132°</u>	°F Gravity <u>—</u>	°API D@ <u>—</u> °F Corrected Gravity <u>—</u> °API
RW <u>—</u> @ <u>—</u>	°F Chlorides <u>—</u> ppm Recovery	Chlorides <u>7,400</u> ppm System

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2724</u>	<u>2758</u>	PSI Recorder No. <u>2357</u>	T-On Location <u>10:00Am</u>
(B) First Initial Flow Pressure	<u>1810</u>	<u>1773</u>	PSI (depth) <u>5675</u>	T-Started <u>10:38Am</u>
(C) First Final Flow Pressure	<u>1810</u>	<u>1791</u>	PSI Recorder No. <u>13278</u>	T-Open <u>12:25</u>
(D) Initial Shut-In Pressure	<u>2008</u>	<u>2035</u>	PSI (depth) <u>5712</u>	T-Pulled <u>3:25PM</u>
(E) Second Initial Flow Pressure	<u>1777</u>	<u>1704</u>	PSI Recorder No. <u>—</u>	T-Out <u>6:45PM</u>
(F) Second Final Flow Pressure	<u>1777</u>	<u>1781</u>	PSI (depth) <u>—</u>	T-Off Location <u>7:15PM</u>
(G) Final Shut-in Pressure	<u>1997</u>	<u>2028</u>	PSI Initial Opening <u>15</u>	Test <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2702</u>	<u>2739</u>	PSI Initial Shut-in <u>60</u>	Jars <u>✓</u>

Final Flow <u>15</u>	Safety Joint <u>✓</u>
Final Shut-in <u>90</u>	Straddle <u>—</u>
<u>—</u>	Circ. Sub <u>✓</u>
<u>—</u>	Sampler <u>—</u>
	Extra Packer <u>—</u>
	Elec. Rec. <u>✓</u>
	Mileage <u>—</u>
	Other <u>—</u>
	TOTAL PRICE \$ <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 [Signature]

Our Representative Brad Bry

Well Name Lerneritz
DST Number 1
Recorder Number 10991

A: 2.228 2363
B: .071 75
C: .128 136
D: 1.477 1572
E: .129 137
F: .186 197
G: 1.485 1581
Q: 2.197 2330

Well Name Lerneritz
DST Number 4
Recorder Number 10991

A: 2.370 2512
B: .115 122
C: .113 122
D: 1.572 1673
E: .180 191
F: .277 294
G: 1.516 1613
Q: 2.459 2605

Well Name Lerneritz #2
DST Number 5
Recorder Number 13278

A: 2.492 2748
B: 1.637 1807
C: 1.628 1797
D: 1.812 2000
E: 1.599 1765
F: 1.599 1765
G: 1.796 1982
Q: 2.453 2706