

WELL NAME

Kerstetter 3-33

COMPANY

American Warrior Inc

LOCATION

33-32s-19w

Comanche co Kansas

DATE

11/3/00

RECEIVED
STATE CORPORATION COMMISSION

ORIGINAL JUN 05 2001

CONSERVATION DIVISION
WICHITA, KANSAS

TRILOBITE TESTING L.L.C.

ORIGINAL

OPERATOR : American Warrior Inc.

DATE 10-27-00

WELL NAME: Kerstetter "3-33"

KB 1922.00 ft

TICKET NO: 13093 DST #1

LOCATION : 33-32S-19W Comanche co KS

GR 1909.00 ft

FORMATION: Pawnee/Fort Scott

INTERVAL : 4945.00 To 5014.00 ft

TD 5014.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine			PF Fr. 0515 to 0530 hr
SI 30 Range(Psi)	4100.0	4100.0	5000.0	0.0	0.0	IS Fr. 0530 to 0600 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elect			SF Fr. 0600 to 0700 hr
FS 90 Depth(ft)	5011.0	5011.0	4949.0	0.0	0.0	FS Fr. 0700 to 0830 hr

	Field	1	2	3	4	
A. Init Hydro	2450.0	0.0	2375.0	0.0	0.0	T STARTED 0335 hr
B. First Flow	245.0	0.0	144.0	0.0	0.0	T ON BOTM 0513 hr
B1. Final Flow	217.0	0.0	106.0	0.0	0.0	T OPEN 0515 hr
C. In Shut-in	1850.0	0.0	1825.0	0.0	0.0	T PULLED 0830 hr
D. Init Flow	226.0	0.0	117.0	0.0	0.0	T OUT 1045 hr
E. Final Flow	205.0	0.0	103.0	0.0	0.0	
F. Fl Shut-in	1856.0	0.0	1818.0	0.0	0.0	
G. Final Hydro	2445.0	0.0	2352.0	0.0	0.0	
Inside/Outside	I	I	I			

RECOVERY

Tot Fluid 175.00 ft of 175.00 ft in DC and 0.00 ft in DP
 4756.00 ft of Gas in Pipe
 175.00 ft of Slight Gas cut Mud 4%Gas 96%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

TOOL DATA-----
 Tool Wt. 2300.00 lbs
 Wt Set On Packer 20000.00 lbs
 Wt Pulled Loose 14000.00 lbs
 Initial Str Wt 75000.00 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 356.00 ft
 D.P. Length 4575.00 ft

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BLOW DESCRIPTION

Initial Flow:
 Strong bottom of bucket in 30 sec
 Gas to surface in 4 minutes
 gauged 259,000cfpd
 Initial Shutin:
 No blow back

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CONSERVATION DIVISION
 WICHITA, KANSAS

Final Flow:

Gauged as low as 398,000 & as high as
 639,000cfpd. Had rust plugging
 3/4" choke on & off
 Final Shutin:
 1/2" blow back
 Est. 5ft. of pay. Gas burned
 SAMPLES: One
 SENT TO: Caraway

MUD DATA-----
 Mud Type Chem.
 Weight 9.10 lb/cf
 Vis. 46.00 S/L
 W.L. 12.90 in3
 F.C. 0.00 in
 Mud Drop Y 10.0 ft
 Amt. of fill 3.00 ft
 Btm. H. Temp. 120.00 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 Lanny Saloga
 Co. Rep. Al Downing
 Contr. Duke
 Rig # 7
 Unit #
 Pump T.

Test Successful: Y

12-61

GAS RECOVERY

COMPANY: American Warrior Inc.

DATE: 10-27-00

WELL NAME: Kerstetter "3-33"

KB Elev: 1922.00 ft TICKET #13093 DST #1

WELL LOCATION: 33-32S-19W Comanche co KS

GR Elev: 1909.00 ft FORMATION: Pawnee/Fort Scott —

INTERVAL Fr.: 4945.00 To 5014.00 T.D.: 5014.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla Orifice

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	9	0	245000.0
15	0.75	10	0	259000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	32	0	546000.0
10	0.75	34	0	569000.0
20	0.75	40	0	639000.0
30	0.75	25	0	461000.0
40	0.75	20	0	398000.0
50	0.75	32	0	546000.0
60	0.75	30	0	522000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Kerstetter "3-33"

LOCATION : 33-32S-19W Comanche co KS

TICKET No. 13093 D.S.T. No. 1 DATE 10-27-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 38

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 96

D.C. ABOVE TOOLS.Stands 6 Single Total 356

D.P. ABOVE TOOLS.Stands 73 Single 1 Total 4575

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5027

TOTAL DEPTH 5014

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

P.O. SUB Cir. sub	4798
C.O. SUB Top of tool	4918
Double pin	4919
S.I. TOOL Sterling	4924
HMV Sterling	4929
JARS Bowen	4934
SAFETY JOINT Bowen	4936
PACKER Sparton	4941
PACKER Sparton	4945
DEPTH	
1 ft.	4946
ANCHOR 3 ft. perf	4949
Alpine	4949
Pu. sub	4954
25 ft. perfs	4979
Co. sub	4980
1 jt. DP 31 ft.	5011
AK-1	5011
Co. sub	5012
BULLNOSE 2 ft. perf	
T.D.	5014

TEST HISTORY

13093 D.S.T.#1 Kerstetter "3-33" American Warrior Inc.

Flag Points

t(Min.) P(PSig)

A:	0.00	2375.84
B:	0.00	144.38
C:	13.00	106.05
D:	30.25	1825.15
E:	0.00	117.48
F:	57.50	103.50
G:	90.75	1818.24
Q:	0.00	2352.22

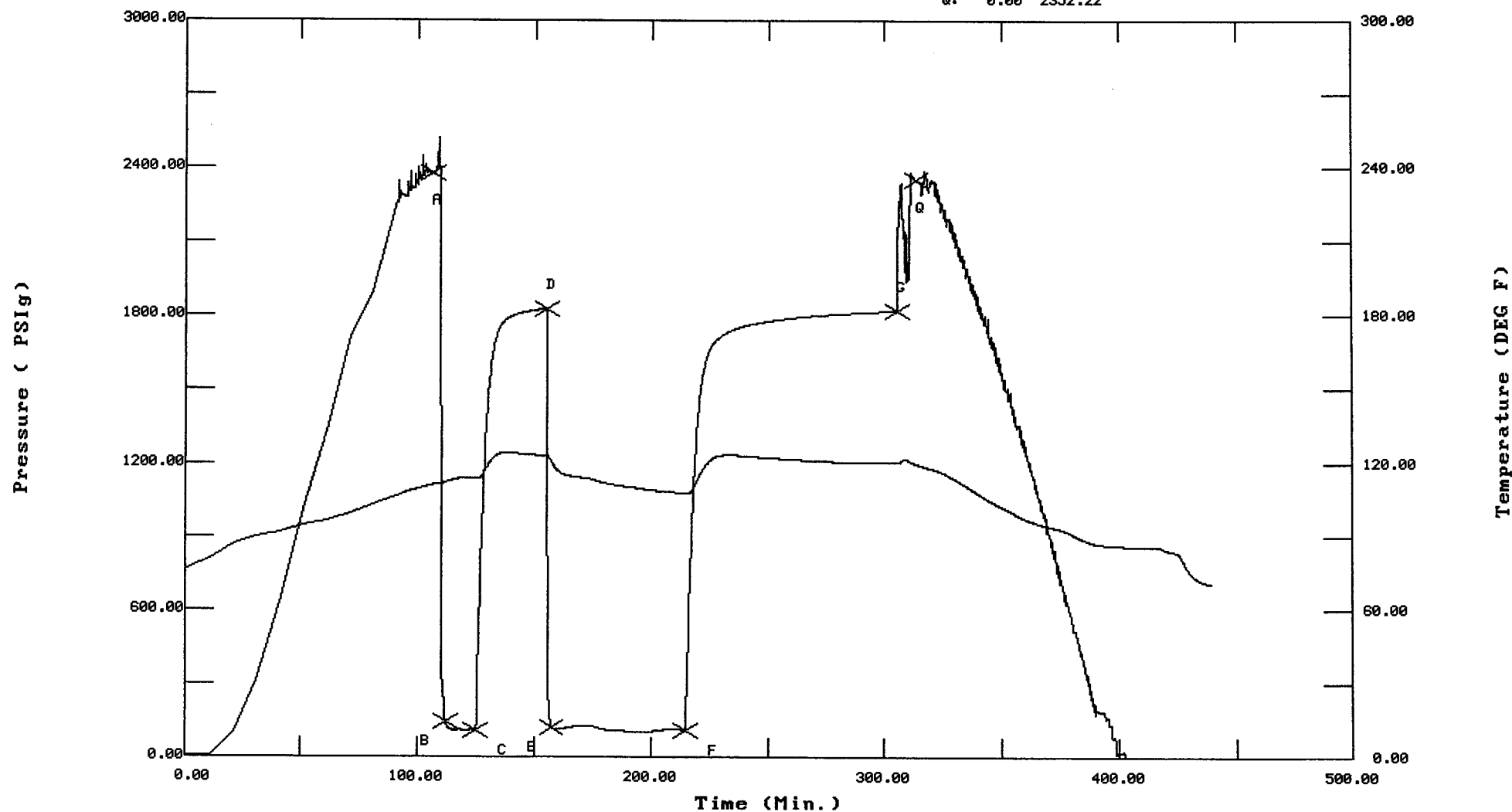
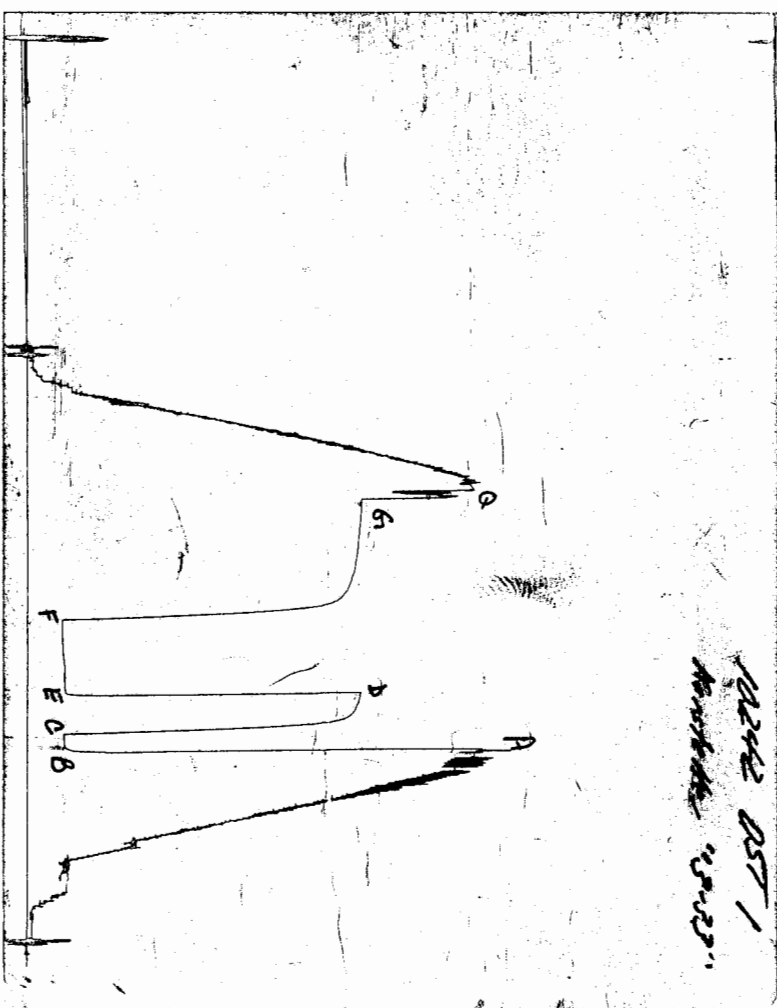


CHART PAGE



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



GAS VOLUME REPORT

DST NO.

T.F.P.

FFP

Remark: at 30 min. into FFP, pulled choke.
Had not restricting. Choke.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13093

Test Ticket

Well Name & No.	<u>Harstetter "2-23"</u>	Test No.	<u>1</u>	Date	<u>10-27-00</u>
Company	<u>American Warrior Inc.</u>	Zone Tested	<u>Runnel / Red Scott</u>		
Address	<u>PO Box 399 G.C. KS 67846-0399</u>	Elevation	<u>1922</u>	KB	<u>1909</u>
Co. Rep / Geo.	<u>Al Downing</u>	Cont.	<u>Duke Rig 7</u>	Est. Ft. of Pay	<u>5</u> Por. <u>10</u> %
Location: Sec.	<u>22</u>	Twp.	<u>32.5</u>	Rge.	<u>19N</u>
				Co.	<u>Comanche</u> State <u>KS</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u>
		Evaluation (Y, N)			

Interval Tested	<u>4945-5014</u>	Initial Str Wt./Lbs.	<u>75,000</u>	Unseated Str Wt./Lbs.	<u>76,000</u>
Anchor Length	<u>69</u> <u>Ten 1-27</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>14,000</u>
Top Packer Depth	<u>4940</u>	Tool Weight	<u>2,300</u>		
Bottom Packer Depth	<u>4945</u>	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	<u>5014</u>	Wt. Pipe Run	<u>—</u>	Drill Collar Run	<u>356</u>
Mud Wt.	<u>9.1</u> LCM <u>2#</u> Vis. <u>46</u> WL <u>12.9</u>	Drill Pipe Size	<u>4 1/2 XH</u>	Ft. Run	<u>4575</u> <u>12' up</u>
Blow Description	<u>Starts CR in 30 sec. GTS in 4 min. See Flow Chart. T.F.P.</u>				
	<u>Narrow-back. T.S.T.P.</u>				
	<u>See Flow Chart F.F.P.</u>				
	<u>1/2" slow-back. F.S.T.P.</u>				

Recovery — Total Feet	<u>175</u>	GIP	<u>4,756</u>	Ft. in DC	<u>175</u>	Ft. in DP	<u>0</u>
Rec.	<u>175</u>	Feet Of	<u>50' Gas cut mud</u>	4 %gas	%oil	%water	<u>96</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	<u>120</u>	°F Gravity	<u>—</u>	°API D@	<u>—</u>	°F Corrected Gravity	<u>—</u>
RW	<u>—</u>	°F Chlorides	<u>—</u>	ppm Recovery	<u>—</u>	Chlorides	<u>6,000</u> ppm System

	AK-1	Alpine			
(A) Initial Hydrostatic Mud	<u>2450</u>	<u>2375</u>	PSI Recorder No.	<u>3017 "03:27"</u>	T-On Location <u>2:00 AM</u>
(B) First Initial Flow Pressure	<u>245</u>	<u>144</u>	PSI (depth)	<u>4949</u>	T-Started <u>3:35 AM</u>
(C) First Final Flow Pressure	<u>217</u>	<u>106</u>	PSI Recorder No.	<u>10242</u>	T-Open <u>5:15 AM</u>
(D) Initial Shut-in Pressure	<u>1850</u>	<u>1825</u>	PSI (depth)	<u>5011</u>	T-Pulled <u>8:30 AM</u>
(E) Second Initial Flow Pressure	<u>226</u>	<u>117</u>	PSI Recorder No.	<u>—</u>	T-Out <u>10:45 AM</u>
(F) Second Final Flow Pressure	<u>205</u>	<u>103</u>	PSI (depth)	<u>—</u>	T-Off Location <u>—</u>
(G) Final Shut-in Pressure	<u>1856</u>	<u>1818</u>	PSI Initial Opening	<u>15</u>	Test <u>1</u> <u>✓</u>
(Q) Final Hydrostatic Mud	<u>2445</u>	<u>2352</u>	PSI Initial Shut-in	<u>30</u>	Jars <u>1</u> <u>✓</u>
			Final Flow	<u>60</u>	Safety Joint <u>1</u> <u>✓</u>
			Final Shut-in	<u>90</u>	Straddle <u>—</u>
					Circ. Sub <u>1</u>
					Sampler <u>—</u>
					Extra Packer <u>—</u>
					Elec. Rec. <u>1</u> <u>✓</u>
					Mileage <u>1</u> <u>60</u> <u>✓</u>
					Other <u>—</u>

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Approved By Al Downing

Our Representative Jimmy S. Salgado

TOTAL PRICE \$ 4,310⁰⁰

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

Sample From: Kerkstetter 3-33 DST 1
Producer: American Warrior, Inc.

Pressure:
Temperature:

Time:
Sampler: Lanny Saloga
Source:

County: Comanche
State: Kansas
Formation: Pawnee

-----Ft Scott

	Mole %	GPM
Helium	He: 0.094	0.000
Hydrogen	H2: 0.006	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 2.350	0.000
Carbon Dioxide	CO2: 0.018	0.000
Methane	C1: 86.839	0.000
Ethane	C2: 4.168	1.115
Propane	C3: 3.156	0.870
Iso Butane	iC4: 0.424	0.139
Normal Butane	nC4: 1.319	0.416
Iso Pentane	iC5: 0.363	0.133
Normal Pentane	nC5: 0.456	0.165
Hexanes Plus	C6+: 0.807	0.352

TOTAL: 100.000 3.189

Z Fact: 0.9971

SP.GR.: 0.6791

BTU (SAT): 1147.0 @ 14.73 psia

BTU (DRY): 1167.3 @ 14.73 psia

OCTANE RATING: 122.6

COMMENTS:

0.000