

WELL NAME:	Dale 2-13
COMPANY:	American Warrior
LOCATION:	13-33s-18w Comanche co KS
DATE:	8/30/00

TRILOBITE TESTING L.L.C.

OPERATOR : American Warrior

DATE 8-25-00

WELL NAME: Dale 2-13

KB 0.00 ft

TICKET NO: 13065 DST #1

LOCATION : 13-33s-18w Comanche co KS

GR 0.00 ft

FORMATION: Mississippi

INTERVAL : 5054.00 To 5168.00 ft

TD 5168.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13277	13277	3026			PF Fr. 2341 to 0011 hr
SI 45 Range(Psi)	4125.0	4125.0	4995.0	0.0	0.0	IS Fr. 0011 to 0056 hr
SF 45 Clock(hrs)	18hr	18hr	elect			SF Fr. 0056 to 0141 hr
FS 90 Depth(ft)	5168.0	5168.0	5060.0	0.0	0.0	FS Fr. 0141 to 0311 hr

	Field	1	2	3	4	
A. Init Hydro	2453.0	2452.0	0.0	0.0	0.0	T STARTED 2120 hr
B. First Flow	216.0	157.0	0.0	0.0	0.0	T ON BOTM 2340 hr
B1. Final Flow	151.0	153.0	0.0	0.0	0.0	T OPEN 2341 hr
C. In Shut-in	1183.0	1186.0	0.0	0.0	0.0	T PULLED 0311 hr
D. Init Flow	151.0	139.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	151.0	148.0	0.0	0.0	0.0	
F. Fl Shut-in	1285.0	1273.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2349.0	2335.0	0.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 24000.00 lbs
						Wt Pulled Loose 95000.00 lbs
						Initial Str Wt 78000.00 lbs
						Unseated Str Wt 78000.00 lbs
						Bot Choke 0.78 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.38 in
						D.C. Length 420.00 ft
						D.P. Length 4627.00 ft

RECOVERY

Tot Fluid 240.00 ft of 240.00 ft in DC and 0.00 ft in DP

60.00 ft of Gassy mud

0.00 ft of 50% gas 50% mud

180.00 ft of Gas cut mud

0.00 ft of 10% gas 90% mud

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 30 seconds. gas to surface in 6 minutes

Gas will burn.

Initial Shut-In:

Bled 2" no blow back.

Final Flow:

Strong blow bottom of bucket as soon as tool opened.

Final Shut-In:

No blow back.

SAMPLES: Yes

SENT TO:Caraway Analytical

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	47.00 S/L
W.L.	11.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	115.00 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	Scott Bugbee
Co. Rep.	Alan Downing
Contr.	Duke
Rig #	7
Unit #	
Pump T.	

GAS RECOVERY

COMPANY: American Warrior DATE: 8-25-00
 WELL NAME: Dale 2-13 KB Elev: 0.00 ft TICKET #13065 DST #1
 WELL LOCATION: 13-33s-18w Comanche co KS GR Elev: 0.00 ft FORMATION: Mississippi
 INTERVAL Fr.: 5054.00 To 5168.00 T.D.: 5168.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Merla

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
11	0.75	4	0	156000.0
16	0.75	2	0	108000.0
21	0.75	0	22	66000.0
26	0.75	0	32	80000.0
30	0.75	0	35	82000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	4	0	156000.0
10	0.75	2	0	108000.0
15	0.75	0	16	56800.0
20	0.75	0	9	42500.0
25	0.75	0	8	40000.0
30	0.75	0	8	40000.0
35	0.76	0	6	34700.0
40	0.75	0	6	34700.0
45	0.75	0	6	34700.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Dale 2-13

LOCATION : 13-33s-18w Comanche co KS

TICKET No. 13065 D.S.T. No. 1 DATE 8-25-00

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 47

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 141

D.C. ABOVE TOOLS.Stands7 Single Total 420

D.P. ABOVE TOOLS.Stands Single Total 4627

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5188

TOTAL DEPTH 5168

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

H	P.O. SUB top of tool	5027
H	C.O. SUB 1'	5028
H	S.I. TOOL 5'	5033
H		
H	HMV 5'	5038
H	JARS 5'	5043
H		
H	SAFETY JOINT 2'	5045
H	PACKER 5'	5050
H	PACKER 5'	5054
H	DEPTH 5054	
H	1'	5055
H	ANCHOR	
H		
H	Alpine Rec.	5060
H		
H	5' PU sub	5060
H		
H		
H		
H		
H		
H		
H	7' perf	5067
H	1' c/o sub	5068
H		
H	94' pipe	5162
H		
H	1' c/o sub	5163
H		
H	Ak1 Rec.	5168
H	BULLNOSE	
H	T.D. 5'	5168

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: Dale 2-13 DST 1
Producer: American Warrior, Inc.

Pressure:
Temperature:

Time:
Sampler: Scott
Source:

County: Comanche
State: Kansas
Formation:

Mississippi

	Mole %	GPM
Helium	He: 0.163	0.000
Hydrogen	H2: 0.008	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 3.689	0.000
Carbon Dioxide	CO2: 0.153	0.000
Methane	C1: 90.850	0.000
Ethane	C2: 3.217	0.860
Propane	C3: 1.021	0.281
Iso Butane	iC4: 0.141	0.046
Normal Butane	nC4: 0.313	0.099
Iso Pentane	iC5: 0.092	0.034
Normal Pentane	nC5: 0.102	0.037
Hexanes Plus	C6+: 0.251	0.110

TOTAL: 100.000 1.467

Z Fact: 0.9978

SP.GR.: 0.6140

BTU (SAT): 1022.2 @ 14.73 psia

BTU (DRY): 1040.3 @ 14.73 psia

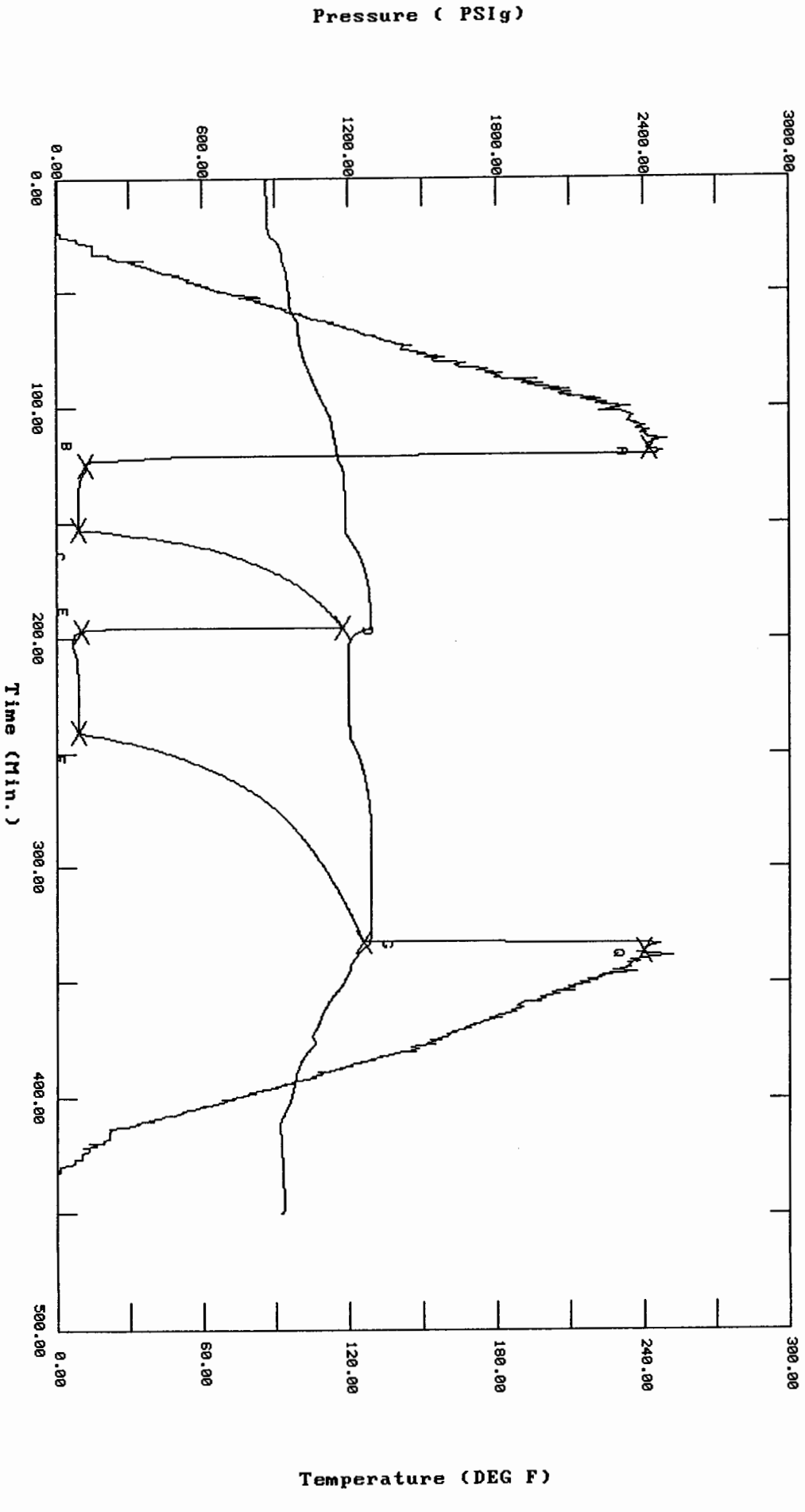
OCTANE RATING: 123.0

COMMENTS:

0.000

TEST HISTORY

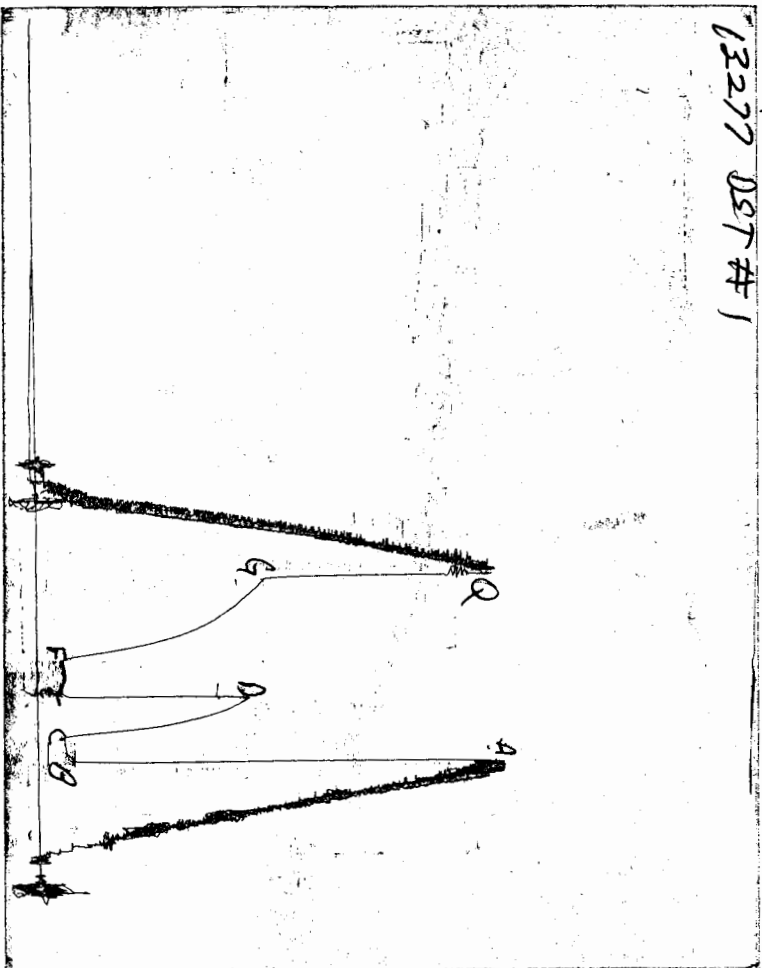
13065 DST#1 Dale 2-13 American Warrior



Flag Points

	t (Min.)	P (PSig)
A:	0.00	2425.14
B:	0.00	115.80
C:	28.00	87.90
D:	43.00	1172.76
E:	0.00	98.86
F:	44.00	87.10
G:	91.50	1256.35
H:	0.00	2403.69

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 13065

Test Ticket

Well Name & No. <u>Dele 2-13</u>	Test No. <u>#1</u>	Date <u>8-25-00</u>
Company <u>American Warrior</u>	Zone Tested <u>Mississippi</u>	
Address <u>Box 399 Garden City Ks, 67846</u>	Elevation _____	KB _____
Co. Rep / Geo. <u>Alan Downing</u>	Cont. <u>Duke 7</u>	Est. Ft. of Pay _____
Location: Sec. <u>13</u>	Twp. <u>33S</u>	Rge. <u>18W</u>
	Co. <u>Comanche</u>	State <u>Ks.</u>
No. of Copies _____	Distribution Sheet (Y, N) _____	Turnkey (Y, N) _____
	Evaluation (Y, N) _____	

Interval Tested 5054-5168 Initial Str Wt./Lbs. 28,000 Unseated Str Wt./Lbs. 28,000
 Anchor Length 114 Wt. Set Lbs. 24,000 Wt. Pulled Loose/Lbs. 92,000
 Top Packer Depth 5049 Tool Weight 1800
 Bottom Packer Depth 5054 Hole Size — 7 7/8" ☒ Rubber Size — 6 3/4" ☒
 Total Depth 5168 Wt. Pipe Run _____ Drill Collar Run 420
 Mud Wt. 9.0 LCM 2 Vis. 47 WL 11 Drill Pipe Size 4 1/2 X 11 Ft. Run _____
 Blow Description 1st open strong blow B.O.B. in. 30 sec. GTS. In 6 min Gas will burn
Blow 2" no flow back
Strong Blow B.O.B. as soon as tool opened
No blow back

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>60</u>	<u>GTS</u>	<u>240</u>	
Feet Of <u>Gassy mud</u>		<u>50</u> %gas	<u>50</u> %oil
Rec. <u>180</u>		<u>10</u> %gas	<u>90</u> %oil
Feet Of <u>Gas cut mud</u>			
Rec. _____		%gas	%oil
Feet Of _____		%gas	%oil
Rec. _____		%gas	%oil
Feet Of _____		%gas	%oil

BHT _____ °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 5700 ppm System

	AK-1	Alpine
(A) Initial Hydrostatic Mud	<u>2453</u>	
(B) First Initial Flow Pressure	<u>216</u>	
(C) First Final Flow Pressure	<u>151</u>	
(D) Initial Shut-In Pressure	<u>1183</u>	
(E) Second Initial Flow Pressure	<u>151</u>	
(F) Second Final Flow Pressure	<u>151</u>	
(G) Final Shut-in Pressure	<u>1295</u>	
(Q) Final Hydrostatic Mud	<u>2349</u>	

PSI Recorder No. 3026 T-On Location 8:00 P.M.
 PSI (depth) 5060 T-Started 29:20 P.M.
 PSI Recorder No. 13271 T-Open 11:41 P.M.
 PSI (depth) 5168 T-Pulled 3:11 A.M.
 PSI Recorder No. _____ T-Out 5:21 A.M.
 PSI (depth) _____ T-Off Location _____
 PSI Initial Opening 30 Test ☒ 850
 PSI Initial Shut-in 45 Jars ☒ 200
 Final Flow 45 Safety Joint ☒ 50
 Final Shut-in 90 Straddle _____
 Circ. Sub ☒
 Sampler _____
 Extra Packer _____
 Elec. Rec. ☒ 150
 Mileage 120 55
 Other _____
 TOTAL PRICE \$ 1370
1305

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 Scott Bungee

Well Name Dale

DST Number 1

Recorder Number 13277

A: 2.457

2552

B: .146

157

C: .142

153

D: 1.133

1186

E: .129

139

F: .138

148

G: 1.218

1273

Q: 2.440

2535