WELL NAME:	VOGEL # 1
COMPANY:	VIKING RESOURCES
LOCATION:	SEC. 18 TWP. 19S RGE. 25W NESS COUNTY KANSAS
DATE:	01-06-97

TRILOBITE TESTING L.L.C.

OPERATOR : Viking Resources
WELL NAME: Vogel #1
LOCATION : 18-19-25
INTERVAL : 4442.00 To 4528.00 ft

DATE 1-1-97
KB 2549.00 ft
GR 2544.00 ft
TD 4528.00 ft

TICKET NO: 9595 DST #1
FORMATION: Mississippi
TEST TYPE: CONV.

RECORDER DATA

Mins			Field	1	2	3	4
PF	60	Rec.	11058	11058	2342		
SI	45	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0
SF	60	Clock(hrs)	12hr	12hr	Elec		
FS	45	Depth(ft)	4523.0	4523.0	4443.0	0.0	0.0

TIME DATA----------
PF Fr. 1857 to 1957 hr
IS Fr. 1957 to 2042 hr
SF Fr. 2042 to 2142 hr
FS Fr. 2142 to 2227 hr

	Field	1	2	3	4
A. Init Hydro	2300.0	2243.0	2225.0	0.0	0.0
B. First Flow	100.0	106.0	29.0	0.0	0.0
B1. Final Flow	255.0	252.0	225.0	0.0	0.0
C. In Shut-in	1231.0	1220.0	1201.0	0.0	0.0
D. Init Flow	300.0	310.0	231.0	0.0	0.0
E. Final Flow	388.0	384.0	354.0	0.0	0.0
F. Fl Shut-in	1220.0	1216.0	1195.0	0.0	0.0
G. Final Hydro	2278.0	2176.0	2176.0	0.0	0.0
Inside/Outside		o	o	i	

T STARTED 1645 hr
T ON BOTM 1854 hr
T OPEN 1857 hr
T PULLED 2227 hr
T OUT 0220 hr

RECOVERY
Tot Fluid 900.00 ft of 172.00 ft in DC and 728.00 ft in DP
280.00 ft of clean gassy oil
250.00 ft of Slightly mud cut gassy oil 25g 55o 20m
250.00 ft of mud cut gassy oil 30g 35o 35m
120.00 ft of Slightly oil cut gassy mud 35g 15o 50m
0.00 ft of
0.00 ft of 278' gas in pipe
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	6000.00 lbs
Wt Set On Packer	28000.00 lbs
Wt Pulled Loose	64000.00 lbs
Initial Str Wt	52000.00 lbs
Unseated Str Wt	57000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	0.00 in
D. Pipe ID	0.00 in
D.C. Length	172.00 ft
D.P. Length	4321.00 ft

BLOW DESCRIPTION
Initial Flow:
Bottom of bucket in 21 mins

Intial Shut In:
Return in 5 mins 1/4 inch

Final Flow:
Bottom of bucket in 19 mins

Final Shut In:
Return in 3 mins 1/4 inch

MUD DATA----------

Mud Type	chem.
Weight	9.50 lb/c
Vis.	41.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop Y	30.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	128.00 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.	Jamie Hess
Contr.	Pickrell
Rig #	10
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

ELL NAME: Vogel #1

OCATION : 18-19-25

ICKET No. 9595 D.S.T. No. 1 DATE 1-1-97

OTAL TOOL TO BOTTOM OF TOP PACKERS 20

NTERVAL TOOL .....

OTTOM PACKERS AND ANCHOR 24

OTAL TOOL 44

RILL COLLAR ANCHOR IN INTERVAL .....

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands 1 Single Total 62

OTAL ASSEMBLY 106

.C. ABOVE TOOLS.Stands3 Single Total 172

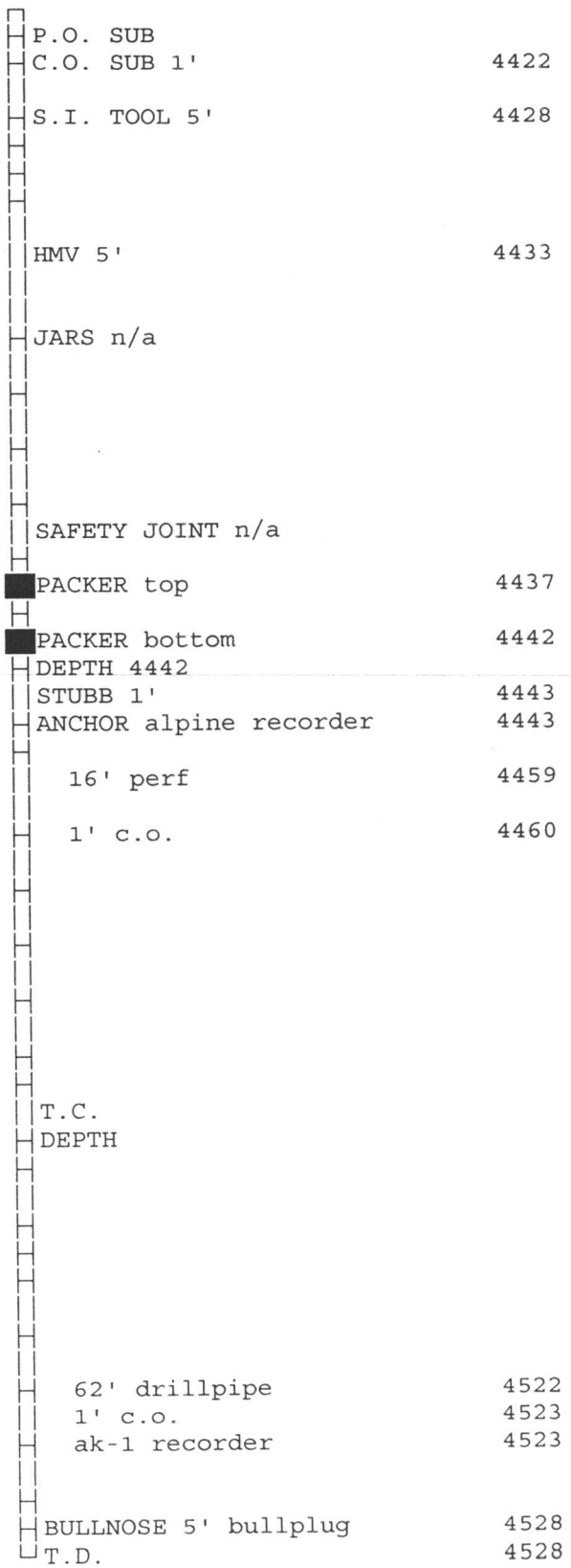
.P. ABOVE TOOLS.Stands68 Single Total 4259

OTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4537

OTAL DEPTH 4528

OTAL DRILL PIPE ABOVE K.B. 9

EMARKS:



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9595 DST #1 Vogel #1 Viking Resources

DATE: 01/01/97 TIME: 17:45:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
****** Initial Hydro.	131.00	2225.4	0.0	108.53		
****** Start Flow 1	0.00	29.7	0.0	109.18		
	1.00	39.4	9.7	109.47		
	2.00	51.6	21.9	109.72		
	3.00	62.6	32.9	109.87		
	4.00	70.1	40.4	109.99		
	5.00	80.0	50.3	110.18		
	6.00	88.1	58.4	110.43		
	7.00	95.8	66.1	110.76		
	8.00	105.0	75.3	111.11		
	9.00	110.3	80.6	111.41		
	10.00	113.7	84.0	111.80		
	11.00	111.1	81.4	112.30		
	12.00	113.6	83.9	112.83		
	13.00	110.4	80.7	113.31		
	14.00	112.8	83.1	113.71		
	15.00	115.7	86.0	114.05		
	16.00	118.7	89.0	114.33		
	17.00	122.1	92.4	114.53		
	18.00	125.6	95.9	114.69		
	19.00	128.6	98.9	114.79		
	20.00	131.3	101.6	114.83		
	21.00	134.2	104.5	114.86		
	22.00	136.9	107.2	114.90		
	23.00	139.6	109.9	114.98		
	24.00	142.1	112.4	115.08		
	25.00	144.5	114.8	115.20		
	26.00	147.0	117.3	115.33		
	27.00	149.3	119.6	115.47		
	28.00	151.6	121.9	115.61		
	29.00	154.1	124.4	115.76		
	30.00	156.7	127.0	115.91		
	31.00	159.1	129.4	116.05		
	32.00	161.4	131.7	116.21		
	33.00	163.8	134.1	116.36		
	34.00	166.3	136.6	116.51		
	35.00	168.9	139.2	116.66		
	36.00	171.3	141.6	116.81		
	37.00	173.6	143.9	116.97		
	38.00	176.4	146.7	117.13		
	39.00	179.2	149.5	117.29		
	40.00	180.8	151.1	117.45		
	41.00	183.5	153.8	117.60		
	42.00	186.1	156.4	117.74		
	43.00	189.7	160.0	117.87		
	44.00	191.3	161.6	117.97		
	45.00	193.6	163.9	118.09		
	46.00	196.1	166.4	118.21		
	47.00	198.5	168.8	118.33		
	48.00	198.4	168.7	118.46		
	49.00	200.3	170.6	118.59		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9595 DST #1 Vogel #1 Viking Resources

DATE: 01/01/97 TIME: 17:45:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	50.00	202.3	172.6	118.71		
	51.00	204.3	174.6	118.84		
	52.00	206.5	176.8	118.97		
	53.00	209.1	179.4	119.09		
	54.00	211.3	181.6	119.22		
	55.00	213.0	183.3	119.34		
	56.00	215.0	185.3	119.46		
	57.00	217.2	187.5	119.57		
	58.00	219.5	189.8	119.67		
	59.00	221.4	191.7	119.76		
	60.00	223.6	193.9	119.84		
***** End Flow 1	61.00	225.6	195.9	119.88		
***** Start Shutin 1	0.00	225.6	0.0	119.88	0.0000	0.051
	1.00	506.9	281.3	119.94	62.0000	0.257
	2.00	814.2	588.6	120.07	31.5000	0.663
	3.00	876.0	650.4	120.32	21.3333	0.767
	4.00	916.0	690.4	120.66	16.2500	0.839
	5.00	947.3	721.7	120.99	13.2000	0.897
	6.00	973.1	747.5	121.30	11.1667	0.947
	7.00	995.0	769.4	121.56	9.7143	0.990
	8.00	1013.9	788.3	121.78	8.6250	1.028
	9.00	1030.5	804.9	121.96	7.7778	1.062
	10.00	1045.0	819.4	122.10	7.1000	1.092
	11.00	1057.9	832.3	122.19	6.5455	1.119
	12.00	1069.4	843.8	122.28	6.0833	1.144
	13.00	1079.7	854.1	122.35	5.6923	1.166
	14.00	1089.2	863.6	122.41	5.3571	1.186
	15.00	1097.7	872.1	122.46	5.0667	1.205
	16.00	1105.6	880.0	122.51	4.8125	1.222
	17.00	1112.9	887.3	122.54	4.5882	1.238
	18.00	1119.6	894.0	122.57	4.3889	1.253
	19.00	1125.6	900.0	122.60	4.2105	1.267
	20.00	1131.3	905.7	122.61	4.0500	1.280
	21.00	1136.6	911.0	122.64	3.9048	1.292
	22.00	1141.6	916.0	122.66	3.7727	1.303
	23.00	1146.2	920.6	122.68	3.6522	1.314
	24.00	1150.4	924.8	122.70	3.5417	1.323
	25.00	1154.5	928.9	122.71	3.4400	1.333
	26.00	1158.4	932.8	122.72	3.3462	1.342
	27.00	1161.9	936.3	122.73	3.2593	1.350
	28.00	1165.2	939.7	122.75	3.1786	1.358
	29.00	1168.4	942.8	122.76	3.1034	1.365
	30.00	1171.5	945.9	122.77	3.0333	1.372
	31.00	1174.3	948.7	122.77	2.9677	1.379
	32.00	1176.9	951.3	122.78	2.9062	1.385
	33.00	1179.5	953.9	122.79	2.8485	1.391
	34.00	1181.9	956.4	122.80	2.7941	1.397
	35.00	1184.3	958.7	122.80	2.7429	1.403
	36.00	1186.6	961.0	122.81	2.6944	1.408
	37.00	1188.7	963.1	122.81	2.6486	1.413
	38.00	1190.7	965.1	122.82	2.6053	1.418

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9595 DST #1 Vogel #1 Viking Resources

DATE: 01/01/97 TIME: 17:45:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	39.00	1192.6	967.0	122.82	2.5641	1.422
	40.00	1194.5	968.9	122.82	2.5250	1.427
	41.00	1196.3	970.7	122.83	2.4878	1.431
	42.00	1197.9	972.3	122.83	2.4524	1.435
	43.00	1199.6	974.0	122.84	2.4186	1.439
****** End Shut-in 1	44.00	1201.3	975.7	122.84	2.3864	1.443
****** Start Flow 2	0.00	231.9	0.0	122.76		
	1.00	234.0	2.1	122.65		
	2.00	236.4	4.5	122.52		
	3.00	238.4	6.5	122.41		
	4.00	240.9	9.0	122.31		
	5.00	243.8	11.9	122.23		
	6.00	247.2	15.3	122.19		
	7.00	250.2	18.3	122.16		
	8.00	252.8	20.9	122.14		
	9.00	255.5	23.6	122.14		
	10.00	257.6	25.8	122.15		
	11.00	260.0	28.1	122.22		
	12.00	262.9	31.1	122.33		
	13.00	265.0	33.2	122.46		
	14.00	267.8	35.9	122.60		
	15.00	269.9	38.0	122.75		
	16.00	271.8	39.9	122.89		
	17.00	273.9	42.0	123.03		
	18.00	275.8	43.9	123.15		
	19.00	278.0	46.2	123.25		
	20.00	280.1	48.2	123.34		
	21.00	282.2	50.4	123.44		
	22.00	284.2	52.3	123.52		
	23.00	286.3	54.4	123.59		
	24.00	288.5	56.7	123.65		
	25.00	290.6	58.7	123.69		
	26.00	293.0	61.1	123.73		
	27.00	295.2	63.4	123.77		
	28.00	296.8	64.9	123.80		
	29.00	298.8	66.9	123.86		
	30.00	301.0	69.2	123.91		
	31.00	303.1	71.2	124.00		
	32.00	305.3	73.4	124.10		
	33.00	307.5	75.6	124.22		
	34.00	309.5	77.6	124.32		
	35.00	312.3	80.4	124.42		
	36.00	314.2	82.3	124.53		
	37.00	316.5	84.6	124.64		
	38.00	318.3	86.4	124.74		
	39.00	320.5	88.6	124.83		
	40.00	322.4	90.6	124.95		
	41.00	324.1	92.2	125.05		
	42.00	325.6	93.7	125.15		
	43.00	327.4	95.5	125.24		
	44.00	329.2	97.3	125.37		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9595 DST #1 Vogel #1 Viking Resources

DATE: 01/01/97 TIME: 17:45:06

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	45.00	330.8	98.9	125.50		
	46.00	332.6	100.7	125.64		
	47.00	334.3	102.4	125.76		
	48.00	336.0	104.2	125.87		
	49.00	337.7	105.8	125.94		
	50.00	339.4	107.5	126.01		
	51.00	341.2	109.3	126.08		
	52.00	342.9	111.0	126.12		
	53.00	344.9	113.1	126.17		
	54.00	346.8	114.9	126.20		
	55.00	348.5	116.7	126.23		
	56.00	350.6	118.8	126.27		
	57.00	352.2	120.3	126.30		
***** End Flow 2	58.00	354.6	122.7	126.33		
***** Start Shutin 2	0.00	354.6	0.0	126.33	0.0000	0.126
	1.00	704.9	350.3	126.39	120.0000	0.497
	2.00	856.7	502.1	126.46	60.5000	0.734
	3.00	905.2	550.6	126.54	40.6667	0.819
	4.00	938.7	584.1	126.64	30.7500	0.881
	5.00	965.4	610.8	126.74	24.8000	0.932
	6.00	987.7	633.1	126.85	20.8333	0.975
	7.00	1006.7	652.1	126.94	18.0000	1.013
	8.00	1023.2	668.6	127.05	15.8750	1.047
	9.00	1037.8	683.2	127.15	14.2222	1.077
	10.00	1050.5	695.9	127.23	12.9000	1.104
	11.00	1062.1	707.5	127.30	11.8182	1.128
	12.00	1072.4	717.8	127.38	10.9167	1.150
	13.00	1081.8	727.2	127.44	10.1538	1.170
	14.00	1090.2	735.6	127.51	9.5000	1.189
	15.00	1098.1	743.5	127.55	8.9333	1.206
	16.00	1105.2	750.6	127.59	8.4375	1.221
	17.00	1111.6	757.0	127.61	8.0000	1.236
	18.00	1117.8	763.2	127.67	7.6111	1.250
	19.00	1123.5	768.9	127.69	7.2632	1.262
	20.00	1128.8	774.2	127.72	6.9500	1.274
	21.00	1133.7	779.1	127.74	6.6667	1.285
	22.00	1138.2	783.6	127.76	6.4091	1.296
	23.00	1142.5	787.9	127.78	6.1739	1.305
	24.00	1146.6	792.0	127.79	5.9583	1.315
	25.00	1150.3	795.7	127.80	5.7600	1.323
	26.00	1153.7	799.2	127.81	5.5769	1.331
	27.00	1157.1	802.5	127.81	5.4074	1.339
	28.00	1160.2	805.6	127.82	5.2500	1.346
	29.00	1163.1	808.6	127.83	5.1034	1.353
	30.00	1166.0	811.4	127.81	4.9667	1.360
	31.00	1168.7	814.1	127.82	4.8387	1.366
	32.00	1171.3	816.7	127.82	4.7188	1.372
	33.00	1173.7	819.1	127.81	4.6061	1.378
	34.00	1176.0	821.4	127.81	4.5000	1.383
	35.00	1178.3	823.7	127.80	4.4000	1.388
	36.00	1180.4	825.8	127.79	4.3056	1.393

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9595 DST #1 Vogel #1 Viking Resources

DATE: 01/01/97 TIME: 17:45:06

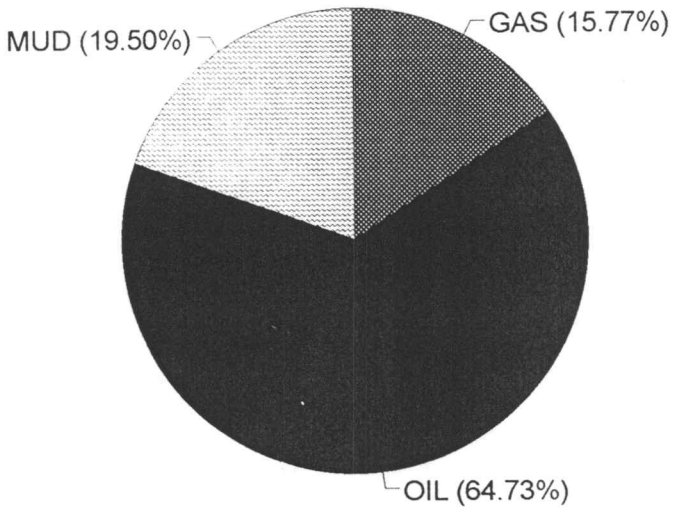
	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	37.00	1182.5	827.9	127.79	4.2162	1.398
	38.00	1184.3	829.7	127.79	4.1316	1.403
	39.00	1186.2	831.6	127.79	4.0513	1.407
	40.00	1188.0	833.4	127.78	3.9750	1.411
	41.00	1189.8	835.2	127.77	3.9024	1.416
	42.00	1191.4	836.8	127.76	3.8333	1.420
	43.00	1193.0	838.4	127.75	3.7674	1.423
	44.00	1194.5	839.9	127.75	3.7045	1.427
	45.00	1196.0	841.4	127.73	3.6444	1.430
****** End Shut-in 2	46.00	1195.5	840.9	127.73	3.5870	1.429
****** Final Hydro.	346.00	2176.5	0.0	127.75		

CALCULATED RECOVERY ANALYSIS

DST 1 TICKET 9595

SAMPLE		TOTAL	GAS		OIL		WATER		MUD	
#		FEET	%	FEET	%	FEET	%	FEET	%	FEET
DRILL	1	280	5	14	95	266		0		0
PIPE	2	250	10	25	55	137.5		0	20	50
	3	198	30	59.4	35	69.3		0	35	69.3
	4			0		0		0		0
	5			0		0		0		0
	6			0		0		0		0
WEIGHT	1			0		0		0		0
PIPE	2			0		0		0		0
	3			0		0		0		0
	4			0		0		0		0
DRILL	1	52	30	15.6	35	18.2		0	35	18.2
COLLARS	2	120	35	42	15	18		0	50	60
	3			0		0		0		0
	4			0		0		0		0
	5			0		0		0		0
TOTAL		900		156		509		0		197.5

			HRS OPEN		BBL/DAY
BBL OIL =	6.900234	*	2	=	82.802808
BBL WATER =	0	*		=	0
BBL MUD =	2.078844				
BBL GAS =	1.680912				



TEST HISTORY

9595 DST #1 Vogel #1 Viking Resources

Flag Points

	t(Min.)	P(PSIg)
A:	0.00	2225.42
B:	0.00	29.70
C:	61.00	225.59
D:	44.00	1201.25
E:	0.00	231.88
F:	58.00	354.59
G:	46.00	1195.46
Q:	0.00	2176.49

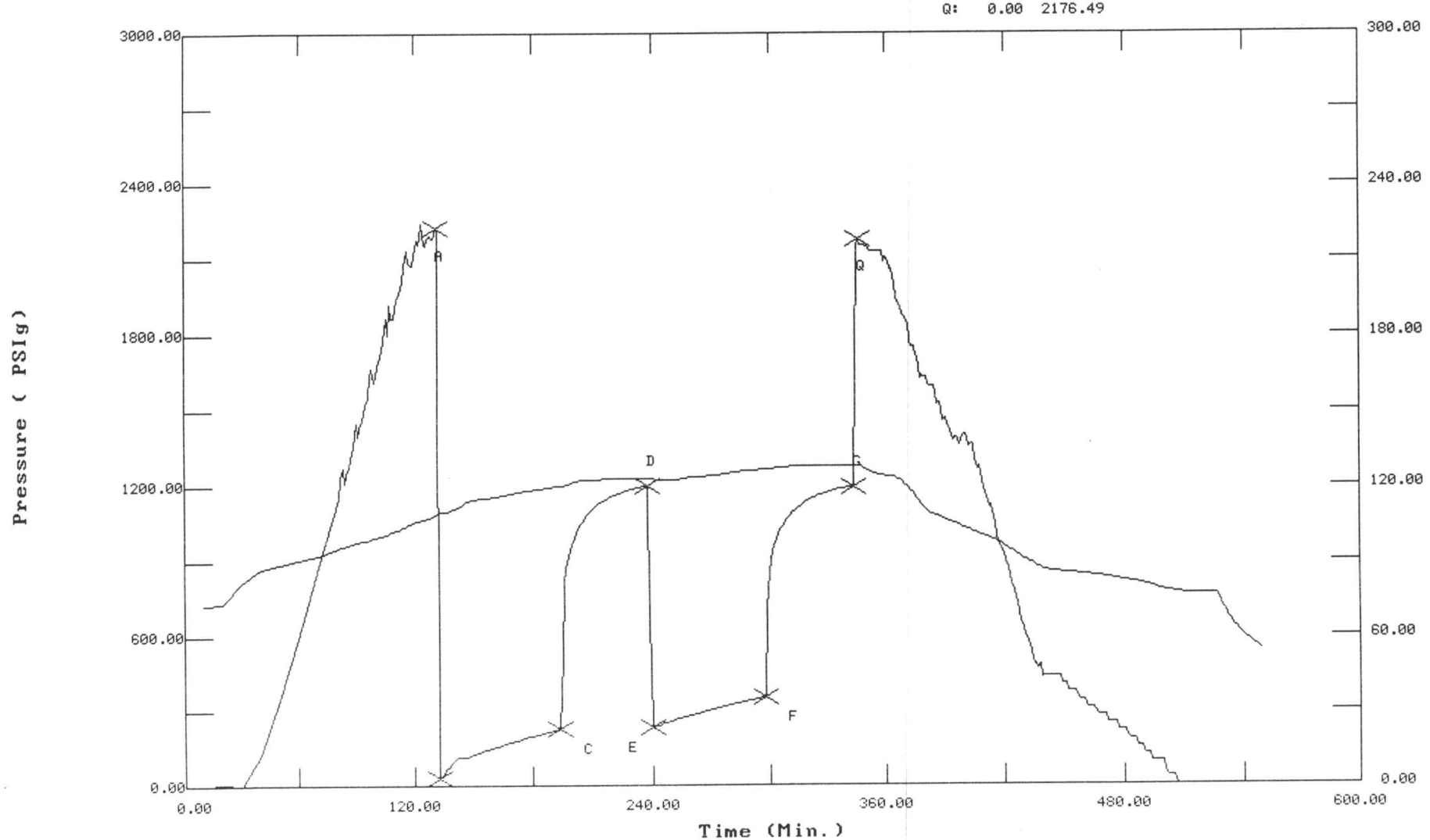
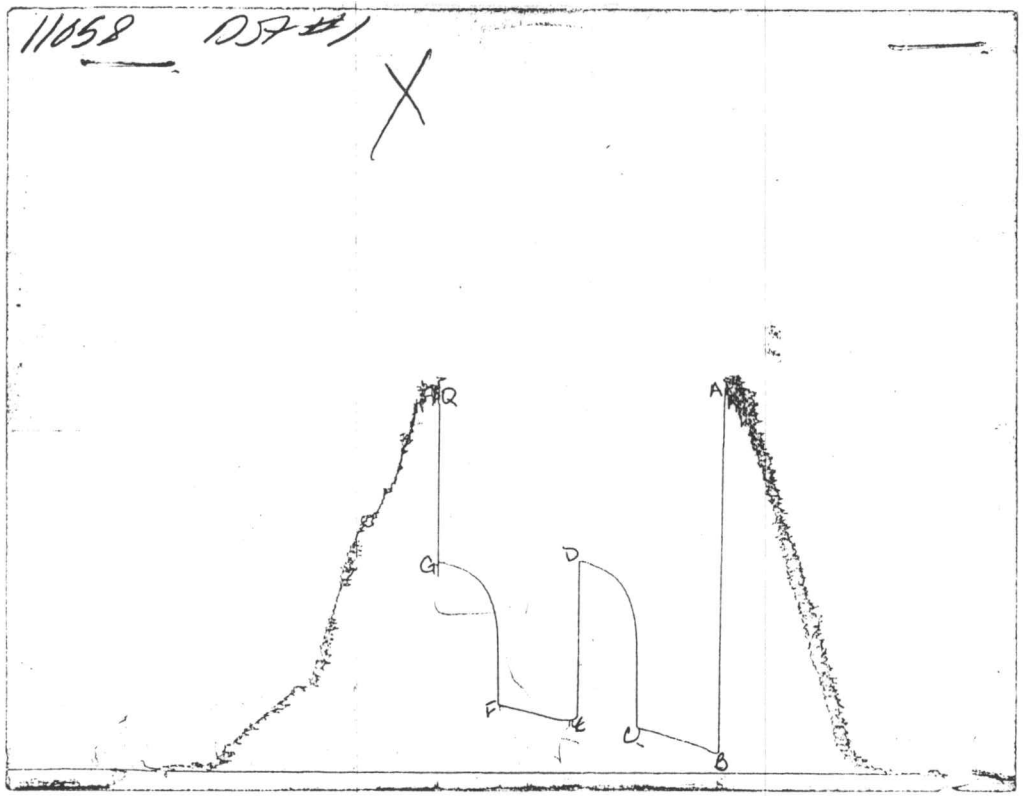


CHART PAGE



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