

**WELL NAME:** Allen A-1  
**COMPANY:** Woolsey Petroleum Company  
**LOCATION:** 3-34S-13W  
Barber County, Kansas  
**DATE:** 2/9/98

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl. Corp. DATE 01-27-98  
 WELL NAME: Allen A-1 KB 1719.00 ft TICKET NO: 10594 DST #1  
 LOCATION : 3-34s-13w CO Barber KS GR 1706.00 ft FORMATION: Snyderville  
 INTERVAL : 3976.00 To 4018.00 ft TD 4018.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0850 to 0920 hr
SI 60 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0920 to 1020 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1020 to 1120 hr
FS 240 Depth(ft )	4015.0	4015.0	3986.0	0.0	0.0	FS Fr. 1120 to 1520 hr

	Field	1	2	3	4	
A. Init Hydro	1931.0	1937.0	1950.0	0.0	0.0	T STARTED 0647 hr
B. First Flow	80.0	99.0	72.0	0.0	0.0	T ON BOTM 0845 hr
Bl. Final Flow	125.0	105.0	117.0	0.0	0.0	T OPEN 0850 hr
C. In Shut-in	1244.0	1262.0	1260.0	0.0	0.0	T PULLED 1526 hr
D. Init Flow	166.0	175.0	133.0	0.0	0.0	T OUT 1750 hr
E. Final Flow	223.0	111.0	209.0	0.0	0.0	
F. Fl Shut-in	1301.0	1299.0	1311.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1896.0	1905.0	1909.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 35000.00 lbs

RECOVERY

Tot Fluid 470.00 ft of 240.00 ft in DC and 230.00 ft in DP  
 3509.00 ft of Gas in Pipe  
 170.00 ft of Gas cut mud 20%g 80%m  
 120.00 ft of Gas cut muddy water 7%g 33%w 60%m  
 180.00 ft of Muddy water 4%m 96%w  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw 0.59 ohms @ 61 degrees F.  
 0.00 ft of EST FT. of PAY-----15  
 SALINITY 16000.00 P.P.M. A.P.I. Gravity 0.00

Wt Pulled Loose 68000.00 lbs  
 Initial Str Wt 60000.00 lbs  
 Unseated Str Wt 60000.00 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 240.00 ft  
 D.P. Length 3739.00 ft

BLOW DESCRIPTION

Initial Flow:  
 Strong blow bottom of bucket in 10 sec

Initial Shut-in:  
 No blow.

Final Flow  
 Strong blow. (see gas volume report)

Final Shut-in:  
 Weak blow (1/2")

SAMPLES: Gas sample  
 SENT TO: Caraway/Liberal

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/c  
 Vis. 48.00 S/L  
 W.L. 9.60 in3  
 F.C. 0.20 in  
 Mud Drop N  
 Amt. of fill 4.00 ft  
 Btm. H. Temp. 112.00 F  
 Hole Condition good  
 % Porosity 10.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00 N  
 Cushion Type None  
 Reversed Out N  
 Tool Chased Y 4.00 ft  
 Tester Gary Pevoteaux  
 Co. Rep. Mikeal Maune  
 Contr. Duke Drlg.  
 Rig # 7  
 Unit #  
 Pump T. LCM 0 #/bl

Test Successful: Y

GAS RECOVERY

-----

COMPANY: Woolsey Petl. Corp.

DATE: 01-27-98

WELL NAME: Allen A-1

KB Elev: 1719.00 ft TICKET #10594 DST #1

WELL LOCATION: 3-34s-13w CO Barber KS

GR Elev: 1706.00 ft FORMATION: Snyderville

INTERVAL Fr.: 3976.00 To 4018.00 T.D.: 4018.00 ft TEST TYPE: CONVENTIONAL

AS RECOVERY MEASURED WITH Adjusting Choke

\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
20	0.25	0	24	8220.0
25	0.25	0	32	9500.0
30	0.25	0	30	9200.0

\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.25	0	30	9200.0
10	0.25	0	24	8220.0
15	0.25	0	17	6930.0
20	0.25	0	18	7120.0
25	0.25	0	26	8560.0
30	0.25	0	32	9500.0
35	0.25	0	34	9790.0
40	0.25	0	34	9790.0
45	0.25	0	28	8890.0
50	0.25	0	24	8220.0
55	0.25	0	18	7120.0
55	0.25	0	18	7120.0

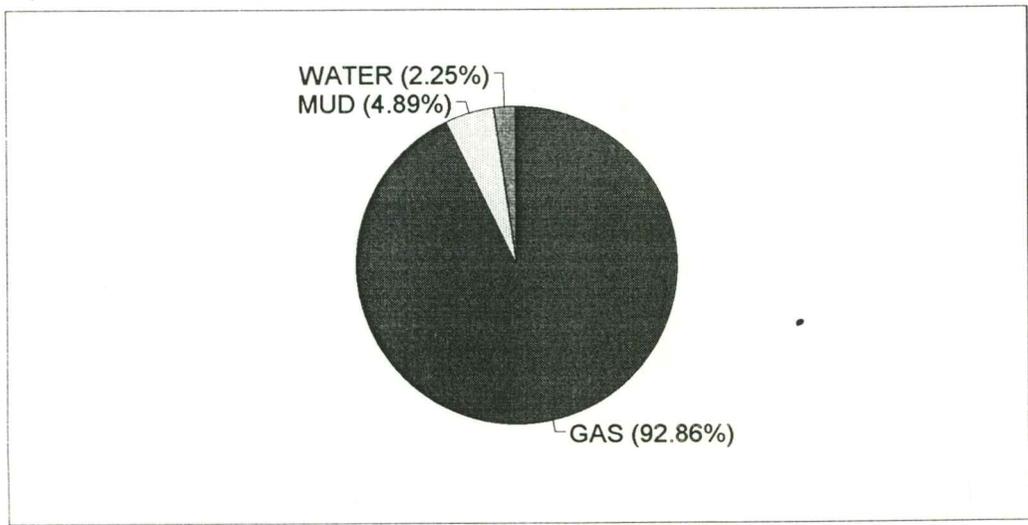
CALCULATED RECOVERY ANALYSIS

DST 1

TICKET 10594

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	3509	100	3509	0	0	0	0	0	0
PIPE 2	170	20	34	0	0	0	0	80	136
3	60	7	4.2	0	0	33	19.8	60	36
4			0	0	0	0	0	0	0
5			0	0	0	0	0	0	0
6			0	0	0	0	0	0	0
WEIGHT 1			0	0	0	0	0	0	0
PIPE 2			0	0	0	0	0	0	0
3			0	0	0	0	0	0	0
4			0	0	0	0	0	0	0
DRILL 1	60	7	4.2	0	0	33	19.8	60	36
COLLARS 2	180		0	0	0	96	172.8	4	7.2
3			0	0	0	0	0	0	0
4			0	0	0	0	0	0	0
5			0	0	0	0	0	0	0
TOTAL	3979		3551.4	0	0	212.4	215.2		

BBL OIL = 0 \* 1.5 = 0  
 BBL WATER = 1.22337 \* = 19.57392  
 BBL MUD = 2.657088  
 BBL GAS = 50.46172



\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Allen A-1

LOCATION : 3-34s-13w CO Barber KS

TICKET No. 10594 D.S.T. No. 1 DATE 01-27-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 42

TOTAL TOOL ..... 69

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 69

D.C. ABOVE TOOLS.Stands4 Single Total 240

D.P. ABOVE TOOLS.Stands60 Single Total 3739

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4048

TOTAL DEPTH ..... 4018

TOTAL DRILL PIPE ABOVE K.B. .... 30

REMARKS:

Comments:Slid tool 4 ft. to btm.

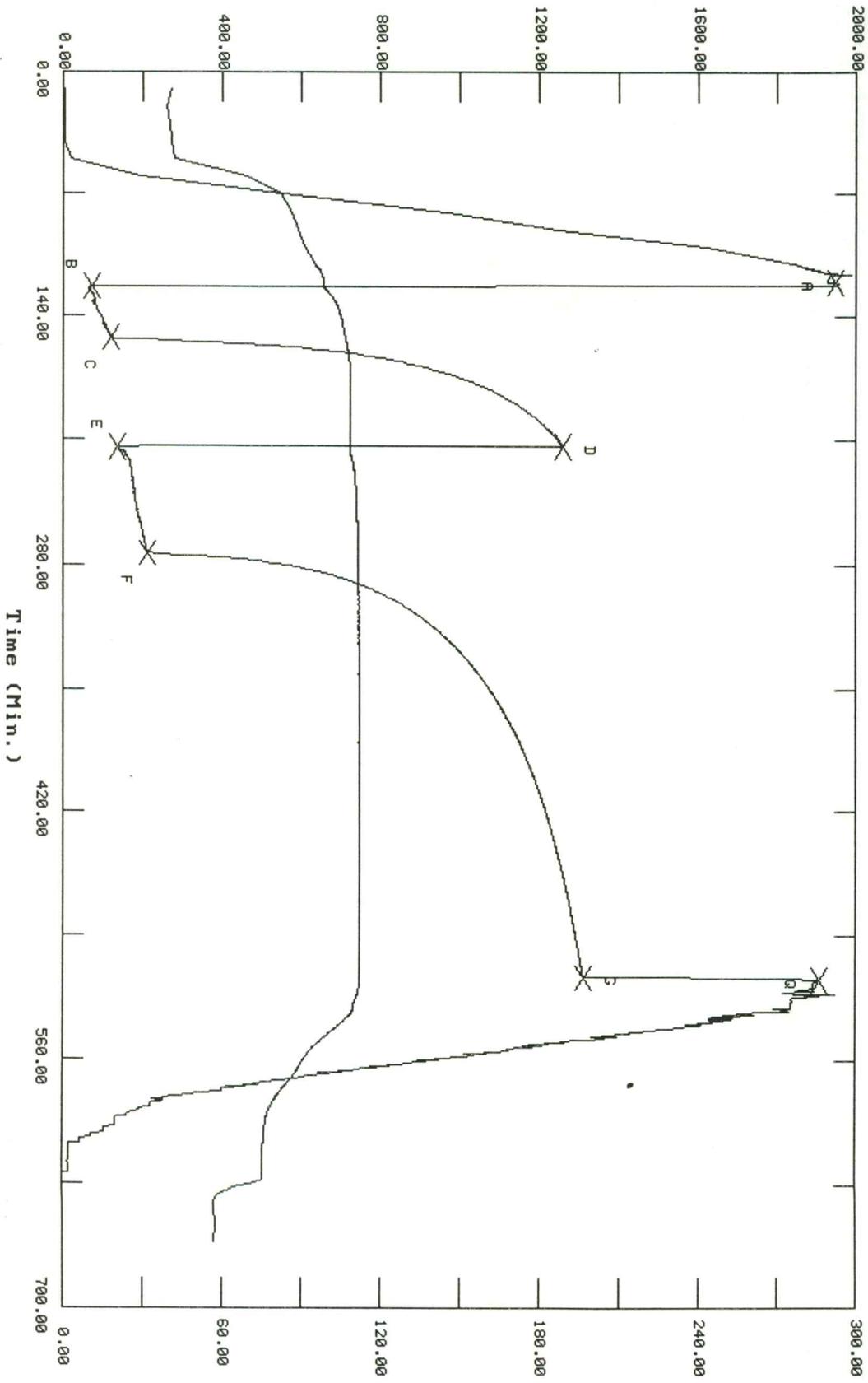
Fax reports to WPC # 316 267 4383

P.O. SUB	
C.O. SUB @ top of tool	3949
S.I. TOOL Sterling	3955
HMV Sterling	3960
JARS Bowen	3965
SAFETY JOINT Bowen	3967
PACKER Top	3971
PACKER Btm.	3976
DEPTH 3976	
STUBB 1 ft.	3977
ANCHOR perfs	
Alpine rec. @	3986
T.C. DEPTH	
36 ft. perfs to	4013
AK-1 rec. @	4015
BULLNOSE 5 ft. perforated	4018
T.D.	

TEST HISTORY  
 10594 DST#1 ALLEN A-1 WOOLSEY PETL. CORP.

Flag Points

Time (Min.)	Pressure (PSIg)
A: 0.00	1949.72
B: 0.00	72.17
C: 29.50	116.99
D: 61.00	1260.00
E: 0.00	132.93
F: 59.00	209.31
G: 240.00	1311.11
Q: 0.00	1908.85

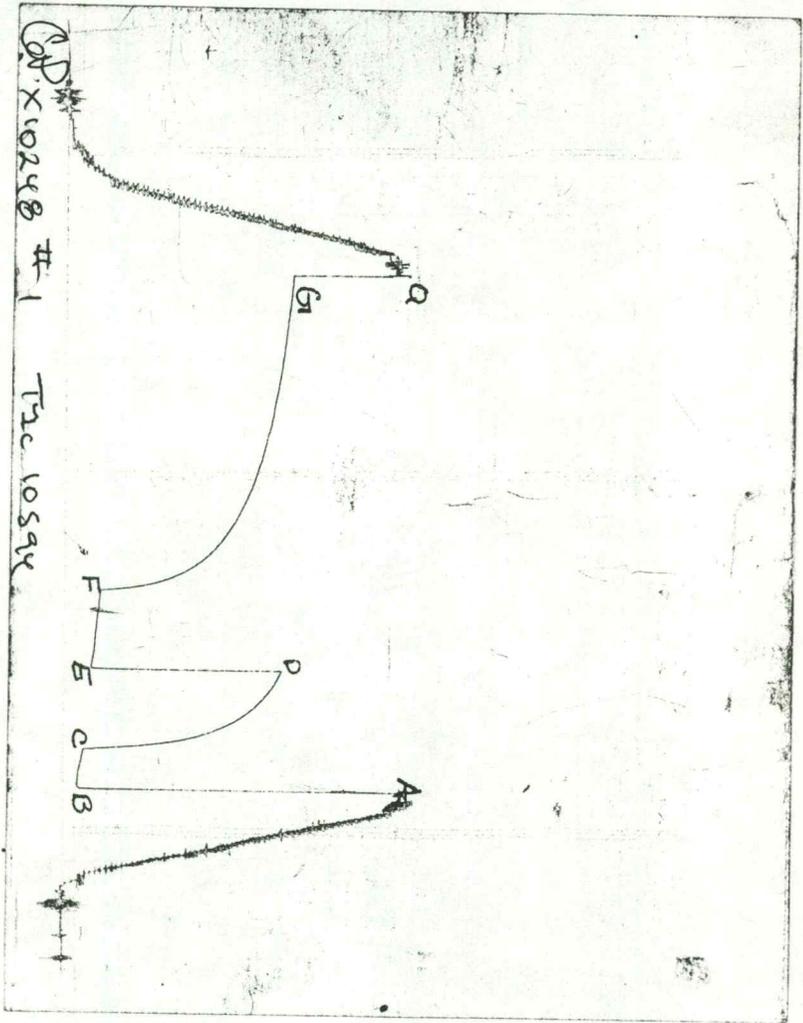


Pressure (PSIg)

Temperature (DEG F)

Time (Min.)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98 TIME: 06:47:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	120.50	1949.7	0.0	98.26		
***** Start Flow 1	0.00	72.2	0.0	98.45		
	0.50	60.8	-11.3	98.51		
	1.00	61.3	-10.8	98.67		
	1.50	62.1	-10.1	98.92		
	2.00	64.8	-7.4	99.22		
	2.50	68.0	-4.2	99.54		
	3.00	68.0	-4.2	99.86		
	3.50	68.9	-3.3	100.19		
	4.00	73.2	1.0	100.50		
	4.50	72.2	0.0	100.81		
	5.00	73.5	1.3	101.11		
	5.50	74.1	1.9	101.38		
	6.00	75.5	3.4	101.62		
	6.50	75.9	3.8	101.87		
	7.00	77.0	4.8	102.10		
	7.50	73.1	0.9	102.32		
	8.00	77.2	5.0	102.51		
	8.50	72.3	0.1	102.69		
	9.00	77.6	5.5	102.87		
	9.50	72.6	0.4	103.03		
	10.00	77.7	5.5	103.18		
	10.50	76.2	4.0	103.34		
	11.00	79.9	7.7	103.47		
	11.50	80.8	8.6	103.62		
	12.00	83.6	11.4	103.76		
	12.50	80.7	8.6	103.88		
	13.00	83.1	10.9	104.03		
	13.50	83.8	11.7	104.14		
	14.00	86.0	13.8	104.25		
	14.50	88.5	16.3	104.37		
	15.00	87.7	15.5	104.47		
	15.50	90.3	18.1	104.57		
	16.00	89.7	17.5	104.67		
	16.50	92.6	20.4	104.76		
	17.00	94.3	22.2	104.86		
	17.50	94.3	22.2	104.96		
	18.00	94.9	22.7	105.06		
	18.50	96.7	24.5	105.15		
	19.00	98.7	26.5	105.23		
	19.50	96.6	24.4	105.31		
	20.00	98.9	26.8	105.38		
	20.50	98.2	26.0	105.45		
	21.00	99.6	27.4	105.51		
	21.50	101.3	29.1	105.58		
	22.00	102.6	30.4	105.65		
	22.50	105.6	33.4	105.71		
	23.00	105.5	33.3	105.77		
	23.50	107.0	34.8	105.83		
	24.00	106.7	34.6	105.88		
	24.50	107.3	35.1	105.96		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	110.1	37.9	106.02		
	25.50	109.8	37.6	106.09		
	26.00	111.6	39.4	106.15		
	26.50	112.6	40.5	106.21		
	27.00	113.0	40.9	106.27		
	27.50	113.2	41.0	106.34		
	28.00	114.4	42.2	106.41		
	28.50	117.2	45.0	106.48		
	29.00	117.0	44.8	106.56		
*****	End Flow 1	29.50	117.0	44.8	106.64	
*****	Start Shutin 1	0.00	117.0	0.0	106.64	0.014
		0.50	135.4	18.4	106.71	60.0000 0.018
		1.00	205.9	88.9	106.80	30.5000 0.042
		1.50	270.1	153.1	106.87	20.6667 0.073
		2.00	327.1	210.2	106.96	15.7500 0.107
		2.50	377.9	260.9	107.04	12.8000 0.143
		3.00	422.7	305.7	107.11	10.8333 0.179
		3.50	462.9	345.9	107.19	9.4286 0.214
		4.00	499.3	382.3	107.26	8.3750 0.249
		4.50	531.9	414.9	107.32	7.5556 0.283
		5.00	562.0	445.0	107.39	6.9000 0.316
		5.50	589.2	472.3	107.46	6.3636 0.347
		6.00	614.6	497.6	107.52	5.9167 0.378
		6.50	638.1	521.1	107.60	5.5385 0.407
		7.00	659.8	542.8	107.65	5.2143 0.435
		7.50	680.2	563.2	107.71	4.9333 0.463
		8.00	699.5	582.5	107.76	4.6875 0.489
		8.50	717.6	600.6	107.82	4.4706 0.515
		9.00	734.6	617.6	107.87	4.2778 0.540
		9.50	750.2	633.2	107.92	4.1053 0.563
		10.00	765.2	648.3	107.97	3.9500 0.586
		10.50	779.6	662.6	108.02	3.8095 0.608
		11.00	793.4	676.4	108.04	3.6818 0.629
		11.50	806.5	689.5	108.06	3.5652 0.650
		12.00	818.3	701.3	108.10	3.4583 0.670
		12.50	829.7	712.7	108.13	3.3600 0.688
		13.00	841.0	724.0	108.16	3.2692 0.707
		13.50	852.1	735.1	108.18	3.1852 0.726
		14.00	862.5	745.5	108.21	3.1071 0.744
		14.50	872.6	755.6	108.22	3.0345 0.761
		15.00	882.4	765.4	108.25	2.9667 0.779
		15.50	892.0	775.0	108.26	2.9032 0.796
		16.00	901.1	784.1	108.29	2.8438 0.812
		16.50	910.1	793.1	108.31	2.7879 0.828
		17.00	918.9	801.9	108.33	2.7353 0.844
		17.50	927.6	810.6	108.33	2.6857 0.860
		18.00	935.9	818.9	108.36	2.6389 0.876
		18.50	943.7	826.7	108.37	2.5946 0.891
		19.00	951.5	834.5	108.38	2.5526 0.905
		19.50	959.1	842.1	108.39	2.5128 0.920
		20.00	966.5	849.5	108.40	2.4750 0.934

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14  
 -----

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.50	973.7	856.7	108.41	2.4390	0.948
21.00	980.8	863.8	108.43	2.4048	0.962
21.50	987.6	870.6	108.43	2.3721	0.975
22.00	994.3	877.3	108.45	2.3409	0.989
22.50	1000.9	883.9	108.45	2.3111	1.002
23.00	1007.4	890.4	108.46	2.2826	1.015
23.50	1013.6	896.6	108.47	2.2553	1.027
24.00	1019.8	902.8	108.47	2.2292	1.040
24.50	1025.8	908.8	108.48	2.2041	1.052
25.00	1031.5	914.6	108.48	2.1800	1.064
25.50	1037.3	920.4	108.48	2.1569	1.076
26.00	1042.9	925.9	108.51	2.1346	1.088
26.50	1048.2	931.3	108.50	2.1132	1.099
27.00	1053.5	936.6	108.52	2.0926	1.110
27.50	1058.9	941.9	108.53	2.0727	1.121
28.00	1063.9	947.0	108.53	2.0536	1.132
28.50	1069.0	952.0	108.54	2.0351	1.143
29.00	1073.8	956.9	108.54	2.0172	1.153
29.50	1078.6	961.6	108.55	2.0000	1.163
30.00	1083.3	966.3	108.56	1.9833	1.174
30.50	1087.9	970.9	108.56	1.9672	1.183
31.00	1092.3	975.3	108.56	1.9516	1.193
31.50	1096.7	979.7	108.57	1.9365	1.203
32.00	1101.0	984.0	108.57	1.9219	1.212
32.50	1105.2	988.3	108.58	1.9077	1.222
33.00	1109.5	992.5	108.57	1.8939	1.231
33.50	1113.5	996.6	108.58	1.8806	1.240
34.00	1117.5	1000.5	108.58	1.8676	1.249
34.50	1121.4	1004.4	108.58	1.8551	1.257
35.00	1125.3	1008.3	108.59	1.8429	1.266
35.50	1129.1	1012.1	108.59	1.8310	1.275
36.00	1132.7	1015.7	108.60	1.8194	1.283
36.50	1136.5	1019.5	108.59	1.8082	1.292
37.00	1140.0	1023.0	108.60	1.7973	1.300
37.50	1143.4	1026.4	108.59	1.7867	1.307
38.00	1147.0	1030.0	108.60	1.7763	1.316
38.50	1150.4	1033.4	108.60	1.7662	1.323
39.00	1153.8	1036.8	108.59	1.7564	1.331
39.50	1157.1	1040.1	108.60	1.7468	1.339
40.00	1160.3	1043.3	108.59	1.7375	1.346
40.50	1163.4	1046.4	108.60	1.7284	1.353
41.00	1166.3	1049.3	108.61	1.7195	1.360
41.50	1169.5	1052.5	108.60	1.7108	1.368
42.00	1172.5	1055.5	108.60	1.7024	1.375
42.50	1175.5	1058.5	108.61	1.6941	1.382
43.00	1178.3	1061.4	108.61	1.6860	1.388
43.50	1181.4	1064.4	108.60	1.6782	1.396
44.00	1184.4	1067.4	108.61	1.6705	1.403
44.50	1187.2	1070.2	108.60	1.6629	1.410
45.00	1190.0	1073.0	108.61	1.6556	1.416
45.50	1192.8	1075.8	108.62	1.6484	1.423

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
	46.00	1195.5	1078.5	108.62	1.6413	1.429	
	46.50	1198.1	1081.1	108.61	1.6344	1.435	
	47.00	1200.7	1083.7	108.62	1.6277	1.442	
	47.50	1203.3	1086.3	108.62	1.6211	1.448	
	48.00	1205.8	1088.8	108.62	1.6146	1.454	
	48.50	1208.3	1091.3	108.62	1.6082	1.460	
	49.00	1210.7	1093.7	108.62	1.6020	1.466	
	49.50	1213.1	1096.1	108.62	1.5960	1.472	
	50.00	1215.4	1098.4	108.62	1.5900	1.477	
	50.50	1217.9	1100.9	108.62	1.5842	1.483	
	51.00	1220.1	1103.1	108.63	1.5784	1.489	
	51.50	1222.3	1105.3	108.62	1.5728	1.494	
	52.00	1224.6	1107.6	108.62	1.5673	1.500	
	52.50	1226.8	1109.8	108.62	1.5619	1.505	
	53.00	1228.9	1112.0	108.62	1.5566	1.510	
	53.50	1231.2	1114.2	108.63	1.5514	1.516	
	54.00	1233.3	1116.3	108.63	1.5463	1.521	
	54.50	1235.4	1118.4	108.63	1.5413	1.526	
	55.00	1237.4	1120.4	108.64	1.5364	1.531	
	55.50	1239.5	1122.5	108.64	1.5315	1.536	
	56.00	1241.5	1124.5	108.63	1.5268	1.541	
	56.50	1243.4	1126.4	108.63	1.5221	1.546	
	57.00	1245.2	1128.2	108.63	1.5175	1.551	
	57.50	1246.8	1129.8	108.64	1.5130	1.555	
	58.00	1248.6	1131.6	108.63	1.5086	1.559	
	58.50	1250.7	1133.7	108.64	1.5043	1.564	
	59.00	1252.6	1135.6	108.66	1.5000	1.569	
	59.50	1254.5	1137.6	108.64	1.4958	1.574	
	60.00	1256.4	1139.4	108.65	1.4917	1.579	
	60.50	1258.2	1141.3	108.65	1.4876	1.583	
*****	End Shut-in 1	61.00	1260.0	1143.0	108.65	1.4836	1.588
*****	Start Flow 2	0.00	132.9	0.0	108.62		
		0.50	139.4	6.5	108.58		
		1.00	137.9	5.0	108.57		
		1.50	146.5	13.6	108.57		
		2.00	150.5	17.5	108.58		
		2.50	150.9	18.0	108.60		
		3.00	154.6	21.7	108.65		
		3.50	155.1	22.2	108.70		
		4.00	156.6	23.7	108.75		
		4.50	158.4	25.5	108.83		
		5.00	159.2	26.3	108.92		
		5.50	160.4	27.4	109.01		
		6.00	161.1	28.2	109.10		
		6.50	162.6	29.6	109.19		
		7.00	164.0	31.1	109.28		
		7.50	164.7	31.8	109.37		
		8.00	165.2	32.2	109.45		
		8.50	165.5	32.6	109.54		
		9.00	165.7	32.8	109.60		
		9.50	166.9	34.0	109.68		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.00	166.7	33.7	109.75		
10.50	167.6	34.7	109.80		
11.00	168.5	35.6	109.87		
11.50	168.9	36.0	109.93		
12.00	169.9	36.9	109.98		
12.50	169.6	36.7	110.03		
13.00	169.8	36.8	110.07		
13.50	171.5	38.5	110.12		
14.00	169.9	37.0	110.17		
14.50	171.0	38.1	110.19		
15.00	171.5	38.6	110.25		
15.50	172.0	39.1	110.28		
16.00	170.4	37.4	110.32		
16.50	172.6	39.7	110.36		
17.00	172.0	39.1	110.39		
17.50	172.8	39.9	110.43		
18.00	173.5	40.5	110.46		
18.50	172.5	39.5	110.49		
19.00	173.1	40.2	110.51		
19.50	173.7	40.8	110.54		
20.00	173.8	40.9	110.57		
20.50	174.5	41.5	110.59		
21.00	175.0	42.0	110.62		
21.50	175.6	42.7	110.63		
22.00	175.6	42.7	110.66		
22.50	175.6	42.7	110.69		
23.00	176.7	43.8	110.70		
23.50	175.8	42.9	110.72		
24.00	176.7	43.7	110.75		
24.50	174.6	41.6	110.76		
25.00	177.2	44.3	110.78		
25.50	176.0	43.1	110.80		
26.00	177.3	44.4	110.82		
26.50	176.7	43.7	110.83		
27.00	177.4	44.5	110.85		
27.50	176.7	43.7	110.87		
28.00	178.3	45.4	110.89		
28.50	179.1	46.2	110.90		
29.00	178.5	45.6	110.92		
29.50	180.2	47.3	110.93		
30.00	179.0	46.1	110.95		
30.50	179.8	46.8	110.96		
31.00	180.9	48.0	110.97		
31.50	181.4	48.5	110.98		
32.00	180.9	48.0	111.01		
32.50	182.9	49.9	111.01		
33.00	182.5	49.6	111.02		
33.50	181.8	48.8	111.05		
34.00	183.7	50.8	111.06		
34.50	183.7	50.8	111.07		
35.00	184.7	51.8	111.07		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	35.50	184.4	51.4	111.09		
	36.00	185.1	52.1	111.10		
	36.50	186.2	53.3	111.11		
	37.00	186.7	53.8	111.12		
	37.50	187.0	54.0	111.13		
	38.00	187.2	54.2	111.10		
	38.50	187.6	54.6	111.15		
	39.00	188.1	55.1	111.16		
	39.50	188.7	55.8	111.17		
	40.00	190.8	57.8	111.19		
	40.50	190.6	57.7	111.19		
	41.00	190.1	57.2	111.21		
	41.50	191.6	58.7	111.22		
	42.00	192.8	59.8	111.22		
	42.50	192.9	60.0	111.23		
	43.00	192.7	59.8	111.24		
	43.50	193.0	60.1	111.25		
	44.00	194.7	61.8	111.25		
	44.50	194.4	61.4	111.27		
	45.00	195.5	62.6	111.28		
	45.50	196.6	63.6	111.28		
	46.00	197.1	64.1	111.30		
	46.50	197.2	64.3	111.30		
	47.00	198.6	65.7	111.31		
	47.50	198.1	65.1	111.32		
	48.00	199.7	66.8	111.34		
	48.50	198.8	65.9	111.34		
	49.00	200.0	67.1	111.34		
	49.50	200.7	67.7	111.35		
	50.00	201.4	68.5	111.37		
	50.50	201.4	68.5	111.36		
	51.00	203.2	70.2	111.38		
	51.50	203.0	70.1	111.38		
	52.00	203.5	70.6	111.39		
	52.50	203.5	70.6	111.40		
	53.00	204.5	71.6	111.41		
	53.50	204.6	71.7	111.42		
	54.00	205.7	72.8	111.43		
	54.50	206.0	73.0	111.44		
	55.00	206.5	73.6	111.44		
	55.50	207.1	74.2	111.45		
	56.00	207.6	74.7	111.46		
	56.50	207.3	74.4	111.46		
	57.00	208.5	75.5	111.47		
	57.50	208.9	76.0	111.48		
	58.00	210.0	77.0	111.48		
	58.50	209.7	76.8	111.49		
	59.00	209.3	76.4	111.50		
*****	End Flow 2					
*****	Start Shutin 2	0.00	209.3	0.0	111.50	0.0000
		0.50	243.2	33.9	111.51	178.0000
		1.00	300.3	91.0	111.52	89.5000
						0.044
						0.059
						0.090

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
1.50	343.9	134.6	111.53	60.0000	0.118
2.00	379.0	169.7	111.54	45.2500	0.144
2.50	408.6	199.2	111.55	36.4000	0.167
3.00	433.9	224.6	111.57	30.5000	0.188
3.50	456.4	247.1	111.67	26.2857	0.208
4.00	476.6	267.3	111.58	23.1250	0.227
4.50	494.9	285.6	111.60	20.6667	0.245
5.00	512.0	302.6	111.61	18.7000	0.262
5.50	527.8	318.5	111.62	17.0909	0.279
6.00	542.8	333.4	111.64	15.7500	0.295
6.50	556.8	347.5	111.65	14.6154	0.310
7.00	569.8	360.5	111.67	13.6429	0.325
7.50	581.9	372.6	111.68	12.8000	0.339
8.00	593.9	384.6	111.69	12.0625	0.353
8.50	605.2	395.9	111.70	11.4118	0.366
9.00	615.9	406.6	111.71	10.8333	0.379
9.50	626.2	416.9	111.72	10.3158	0.392
10.00	635.9	426.6	111.74	9.8500	0.404
10.50	645.2	435.9	111.73	9.4286	0.416
11.00	654.1	444.8	111.75	9.0455	0.428
11.50	662.6	453.3	111.75	8.6957	0.439
12.00	670.8	461.5	111.76	8.3750	0.450
12.50	678.9	469.6	111.76	8.0800	0.461
13.00	686.7	477.4	111.77	7.8077	0.472
13.50	694.2	484.9	111.77	7.5556	0.482
14.00	701.5	492.2	111.77	7.3214	0.492
14.50	708.7	499.4	111.78	7.1034	0.502
15.00	715.3	506.0	111.78	6.9000	0.512
15.50	721.8	512.5	111.79	6.7097	0.521
16.00	728.2	518.9	111.78	6.5312	0.530
16.50	734.4	525.1	111.79	6.3636	0.539
17.00	740.5	531.2	111.79	6.2059	0.548
17.50	746.4	537.1	111.80	6.0571	0.557
18.00	752.2	542.9	111.79	5.9167	0.566
18.50	757.9	548.6	111.80	5.7838	0.574
19.00	763.5	554.2	111.80	5.6579	0.583
19.50	768.9	559.6	111.79	5.5385	0.591
20.00	774.1	564.8	111.80	5.4250	0.599
20.50	779.3	570.0	111.81	5.3171	0.607
21.00	784.4	575.1	111.81	5.2143	0.615
21.50	789.2	579.9	111.81	5.1163	0.623
22.00	794.1	584.8	111.80	5.0227	0.631
22.50	798.9	589.6	111.80	4.9333	0.638
23.00	803.7	594.4	111.81	4.8478	0.646
23.50	808.3	599.0	111.81	4.7660	0.653
24.00	812.8	603.5	111.81	4.6875	0.661
24.50	817.2	607.9	111.81	4.6122	0.668
25.00	821.6	612.3	111.81	4.5400	0.675
25.50	825.9	616.6	111.81	4.4706	0.682
26.00	830.1	620.8	111.80	4.4038	0.689
26.50	834.2	624.9	111.80	4.3396	0.696

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
27.00	838.3	629.0	111.81	4.2778	0.703
27.50	842.3	633.0	111.82	4.2182	0.709
28.00	846.2	636.8	111.81	4.1607	0.716
28.50	850.0	640.7	111.81	4.1053	0.723
29.00	853.9	644.6	111.81	4.0517	0.729
29.50	857.6	648.3	111.81	4.0000	0.736
30.00	861.3	652.0	111.83	3.9500	0.742
30.50	865.0	655.6	111.81	3.9016	0.748
31.00	868.6	659.3	111.82	3.8548	0.754
31.50	872.1	662.8	111.81	3.8095	0.761
32.00	875.5	666.2	111.81	3.7656	0.767
32.50	879.0	669.7	111.81	3.7231	0.773
33.00	882.4	673.1	111.80	3.6818	0.779
33.50	885.6	676.3	111.81	3.6418	0.784
34.00	889.0	679.7	111.81	3.6029	0.790
34.50	892.2	682.9	111.80	3.5652	0.796
35.00	895.5	686.2	111.81	3.5286	0.802
35.50	898.8	689.5	111.82	3.4930	0.808
36.00	901.8	692.5	111.81	3.4583	0.813
36.50	904.9	695.6	111.81	3.4247	0.819
37.00	908.0	698.7	111.81	3.3919	0.824
37.50	911.1	701.8	111.82	3.3600	0.830
38.00	914.0	704.7	111.81	3.3289	0.835
38.50	916.9	707.6	111.81	3.2987	0.841
39.00	919.8	710.5	111.79	3.2692	0.846
39.50	922.8	713.5	111.81	3.2405	0.852
40.00	925.5	716.2	111.81	3.2125	0.857
40.50	928.5	719.2	111.80	3.1852	0.862
41.00	931.3	721.9	111.81	3.1585	0.867
41.50	934.0	724.7	111.79	3.1325	0.872
42.00	936.7	727.4	111.81	3.1071	0.877
42.50	939.4	730.1	111.81	3.0824	0.882
43.00	942.0	732.7	111.82	3.0581	0.887
43.50	944.8	735.5	111.81	3.0345	0.893
44.00	947.4	738.1	111.81	3.0114	0.898
44.50	949.8	740.5	111.85	2.9888	0.902
45.00	952.5	743.2	111.81	2.9667	0.907
45.50	955.0	745.7	111.81	2.9451	0.912
46.00	957.5	748.2	111.81	2.9239	0.917
46.50	960.0	750.7	111.81	2.9032	0.922
47.00	962.4	753.1	111.81	2.8830	0.926
47.50	964.8	755.5	111.80	2.8632	0.931
48.00	967.3	758.0	111.81	2.8438	0.936
48.50	969.6	760.3	111.82	2.8247	0.940
49.00	972.0	762.7	111.82	2.8061	0.945
49.50	974.4	765.1	111.82	2.7879	0.949
50.00	976.7	767.4	111.81	2.7700	0.954
50.50	979.0	769.7	111.82	2.7525	0.958
51.00	981.3	772.0	111.81	2.7353	0.963
51.50	983.5	774.2	111.82	2.7184	0.967
52.00	985.6	776.3	111.81	2.7019	0.971

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14  
 -----

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
52.50	987.9	778.6	111.82	2.6857	0.976
53.00	990.1	780.8	111.82	2.6698	0.980
53.50	992.2	782.9	111.82	2.6542	0.984
54.00	994.4	785.1	111.82	2.6389	0.989
54.50	996.4	787.1	111.83	2.6239	0.993
55.00	998.6	789.3	111.83	2.6091	0.997
55.50	1000.7	791.4	111.82	2.5946	1.001
56.00	1002.7	793.4	111.82	2.5804	1.005
56.50	1004.7	795.4	111.81	2.5664	1.009
57.00	1006.7	797.4	111.82	2.5526	1.013
57.50	1008.8	799.5	111.83	2.5391	1.018
58.00	1010.7	801.4	111.83	2.5259	1.022
58.50	1012.7	803.4	111.83	2.5128	1.026
59.00	1014.8	805.5	111.83	2.5000	1.030
59.50	1016.7	807.4	111.82	2.4874	1.034
60.00	1018.7	809.4	111.83	2.4750	1.038
60.50	1020.6	811.3	111.83	2.4628	1.042
61.00	1022.5	813.2	111.83	2.4508	1.045
61.50	1024.4	815.1	111.83	2.4390	1.049
62.00	1026.3	817.0	111.83	2.4274	1.053
62.50	1028.2	818.9	111.83	2.4160	1.057
63.00	1030.0	820.6	111.83	2.4048	1.061
63.50	1031.8	822.5	111.85	2.3937	1.065
64.00	1033.6	824.3	111.85	2.3828	1.068
64.50	1035.4	826.1	111.83	2.3721	1.072
65.00	1037.2	827.9	111.83	2.3615	1.076
65.50	1038.8	829.5	111.83	2.3511	1.079
66.00	1040.6	831.3	111.84	2.3409	1.083
66.50	1042.3	833.0	111.84	2.3308	1.086
67.00	1043.9	834.6	111.85	2.3209	1.090
67.50	1045.4	836.1	112.01	2.3111	1.093
68.00	1047.1	837.8	111.76	2.3015	1.096
68.50	1048.8	839.4	111.83	2.2920	1.100
69.00	1050.5	841.2	111.84	2.2826	1.104
69.50	1052.4	843.1	111.84	2.2734	1.107
70.00	1054.1	844.8	111.84	2.2643	1.111
70.50	1055.8	846.5	111.84	2.2553	1.115
71.00	1057.5	848.2	111.84	2.2465	1.118
71.50	1059.2	849.9	111.84	2.2378	1.122
72.00	1060.8	851.5	111.84	2.2292	1.125
72.50	1062.4	853.1	111.84	2.2207	1.129
73.00	1064.1	854.8	111.84	2.2123	1.132
73.50	1065.6	856.3	111.85	2.2041	1.136
74.00	1067.2	857.9	111.84	2.1959	1.139
74.50	1068.8	859.5	111.84	2.1879	1.142
75.00	1070.3	861.0	111.84	2.1800	1.146
75.50	1071.7	862.4	111.84	2.1722	1.149
76.00	1073.3	864.0	111.86	2.1645	1.152
76.50	1074.9	865.5	111.84	2.1569	1.155
77.00	1076.3	867.0	111.85	2.1494	1.158
77.50	1077.7	868.4	111.84	2.1419	1.161

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
78.00	1079.2	869.9	111.85	2.1346	1.165
78.50	1080.6	871.3	111.84	2.1274	1.168
79.00	1082.1	872.8	111.84	2.1203	1.171
79.50	1083.5	874.2	111.85	2.1132	1.174
80.00	1084.9	875.6	111.84	2.1063	1.177
80.50	1086.4	877.1	111.85	2.0994	1.180
81.00	1087.8	878.5	111.85	2.0926	1.183
81.50	1089.1	879.8	111.85	2.0859	1.186
82.00	1090.6	881.3	111.84	2.0793	1.189
82.50	1092.0	882.7	111.84	2.0727	1.192
83.00	1093.3	884.0	111.85	2.0663	1.195
83.50	1094.7	885.4	111.84	2.0599	1.198
84.00	1096.1	886.8	111.85	2.0536	1.201
84.50	1097.4	888.1	111.86	2.0473	1.204
85.00	1098.7	889.4	111.85	2.0412	1.207
85.50	1100.0	890.7	111.85	2.0351	1.210
86.00	1101.3	892.0	111.85	2.0291	1.213
86.50	1102.6	893.3	111.86	2.0231	1.216
87.00	1103.9	894.6	111.85	2.0172	1.219
87.50	1105.2	895.9	111.85	2.0114	1.222
88.00	1106.5	897.2	111.85	2.0057	1.224
88.50	1107.7	898.4	111.86	2.0000	1.227
89.00	1108.9	899.6	111.86	1.9944	1.230
89.50	1110.3	901.0	111.86	1.9888	1.233
90.00	1111.5	902.2	111.85	1.9833	1.236
90.50	1112.8	903.5	111.85	1.9779	1.238
91.00	1114.0	904.7	111.86	1.9725	1.241
91.50	1115.2	905.9	111.89	1.9672	1.244
92.00	1116.5	907.2	111.86	1.9620	1.247
92.50	1117.7	908.4	111.86	1.9568	1.249
93.00	1118.9	909.6	111.85	1.9516	1.252
93.50	1120.1	910.8	111.86	1.9465	1.255
94.00	1121.4	912.0	111.86	1.9415	1.257
94.50	1122.6	913.3	111.87	1.9365	1.260
95.00	1123.7	914.4	111.86	1.9316	1.263
95.50	1125.0	915.7	111.86	1.9267	1.266
96.00	1126.1	916.8	111.86	1.9219	1.268
96.50	1127.4	918.1	111.85	1.9171	1.271
97.00	1128.6	919.3	111.86	1.9124	1.274
97.50	1129.7	920.4	111.85	1.9077	1.276
98.00	1130.8	921.5	111.87	1.9031	1.279
98.50	1132.1	922.8	111.87	1.8985	1.282
99.00	1133.3	924.0	111.87	1.8939	1.284
99.50	1134.4	925.1	111.87	1.8894	1.287
100.00	1135.6	926.3	111.88	1.8850	1.290
100.50	1136.8	927.5	111.87	1.8806	1.292
101.00	1138.0	928.7	111.87	1.8762	1.295
101.50	1139.1	929.8	111.87	1.8719	1.297
102.00	1140.2	930.8	111.87	1.8676	1.300
102.50	1141.2	931.9	111.88	1.8634	1.302
103.00	1142.3	933.0	111.87	1.8592	1.305

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
103.50	1143.5	934.2	111.88	1.8551	1.308
104.00	1144.6	935.3	111.89	1.8510	1.310
104.50	1145.7	936.4	111.87	1.8469	1.313
105.00	1146.8	937.5	111.88	1.8429	1.315
105.50	1147.9	938.6	111.88	1.8389	1.318
106.00	1148.9	939.6	111.88	1.8349	1.320
106.50	1150.0	940.7	111.89	1.8310	1.322
107.00	1151.0	941.7	111.97	1.8271	1.325
107.50	1152.1	942.8	111.76	1.8233	1.327
108.00	1153.1	943.8	111.88	1.8194	1.330
108.50	1154.1	944.8	111.88	1.8157	1.332
109.00	1154.8	945.5	111.88	1.8119	1.334
109.50	1155.8	946.5	111.89	1.8082	1.336
110.00	1156.7	947.4	111.89	1.8045	1.338
110.50	1157.7	948.4	111.89	1.8009	1.340
111.00	1158.6	949.3	111.90	1.7973	1.342
111.50	1159.6	950.3	111.89	1.7937	1.345
112.00	1160.5	951.2	111.89	1.7902	1.347
112.50	1161.5	952.2	111.90	1.7867	1.349
113.00	1162.4	953.1	111.90	1.7832	1.351
113.50	1163.4	954.1	111.90	1.7797	1.353
114.00	1164.3	955.0	111.90	1.7763	1.356
114.50	1165.3	956.0	111.89	1.7729	1.358
115.00	1166.3	956.9	111.90	1.7696	1.360
115.50	1167.2	957.9	111.92	1.7662	1.362
116.00	1168.1	958.8	111.91	1.7629	1.364
116.50	1169.0	959.7	111.90	1.7597	1.367
117.00	1169.9	960.6	111.90	1.7564	1.369
117.50	1170.9	961.6	111.92	1.7532	1.371
118.00	1171.8	962.5	111.91	1.7500	1.373
118.50	1172.7	963.4	111.91	1.7468	1.375
119.00	1173.7	964.4	111.89	1.7437	1.378
119.50	1174.7	965.4	111.91	1.7406	1.380
120.00	1175.7	966.4	111.93	1.7375	1.382
120.50	1176.6	967.3	111.92	1.7344	1.384
121.00	1177.5	968.2	111.91	1.7314	1.387
121.50	1178.3	969.0	111.91	1.7284	1.388
122.00	1179.2	969.9	111.91	1.7254	1.390
122.50	1180.2	970.9	111.92	1.7224	1.393
123.00	1181.0	971.7	111.92	1.7195	1.395
123.50	1181.9	972.6	111.92	1.7166	1.397
124.00	1182.8	973.5	111.93	1.7137	1.399
124.50	1183.7	974.4	111.92	1.7108	1.401
125.00	1184.5	975.2	111.93	1.7080	1.403
125.50	1185.4	976.1	111.92	1.7052	1.405
126.00	1186.3	977.0	111.93	1.7024	1.407
126.50	1187.1	977.8	111.94	1.6996	1.409
127.00	1188.0	978.7	111.94	1.6969	1.411
127.50	1188.7	979.4	111.92	1.6941	1.413
128.00	1189.7	980.4	111.93	1.6914	1.415
128.50	1190.4	981.1	111.94	1.6887	1.417

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
129.00	1191.3	982.0	111.94	1.6860	1.419
129.50	1192.1	982.8	111.94	1.6834	1.421
130.00	1192.9	983.6	111.95	1.6808	1.423
130.50	1193.8	984.5	111.93	1.6782	1.425
131.00	1194.5	985.2	111.93	1.6756	1.427
131.50	1195.3	986.0	111.94	1.6730	1.429
132.00	1196.1	986.8	111.95	1.6705	1.431
132.50	1196.9	987.6	111.95	1.6679	1.433
133.00	1197.7	988.4	111.92	1.6654	1.435
133.50	1198.6	989.3	111.94	1.6629	1.437
134.00	1199.3	990.0	111.95	1.6604	1.438
134.50	1200.1	990.8	111.95	1.6580	1.440
135.00	1200.9	991.6	111.95	1.6556	1.442
135.50	1201.6	992.3	111.94	1.6531	1.444
136.00	1202.3	993.0	111.95	1.6507	1.446
136.50	1203.3	994.0	111.95	1.6484	1.448
137.00	1203.9	994.6	111.96	1.6460	1.449
137.50	1204.7	995.4	111.95	1.6436	1.451
138.00	1205.4	996.1	111.95	1.6413	1.453
138.50	1206.1	996.8	111.96	1.6390	1.455
139.00	1207.0	997.7	111.96	1.6367	1.457
139.50	1207.8	998.5	111.95	1.6344	1.459
140.00	1208.4	999.1	111.95	1.6321	1.460
140.50	1209.1	999.8	111.96	1.6299	1.462
141.00	1209.8	1000.5	111.96	1.6277	1.464
141.50	1210.7	1001.3	111.95	1.6254	1.466
142.00	1211.3	1002.0	111.96	1.6232	1.467
142.50	1212.1	1002.8	111.97	1.6211	1.469
143.00	1212.8	1003.5	111.97	1.6189	1.471
143.50	1213.5	1004.2	111.97	1.6167	1.473
144.00	1214.3	1005.0	111.96	1.6146	1.474
144.50	1214.9	1005.6	111.97	1.6125	1.476
145.00	1215.7	1006.4	111.98	1.6103	1.478
145.50	1216.2	1006.9	111.97	1.6082	1.479
146.00	1216.9	1007.6	111.98	1.6062	1.481
146.50	1217.7	1008.4	111.97	1.6041	1.483
147.00	1218.3	1009.0	111.98	1.6020	1.484
147.50	1219.0	1009.7	111.99	1.6000	1.486
148.00	1219.8	1010.5	111.97	1.5980	1.488
148.50	1220.4	1011.1	111.97	1.5960	1.489
149.00	1221.1	1011.8	111.98	1.5940	1.491
149.50	1221.8	1012.5	111.98	1.5920	1.493
150.00	1222.4	1013.1	111.97	1.5900	1.494
150.50	1223.0	1013.7	111.98	1.5880	1.496
151.00	1223.7	1014.4	111.97	1.5861	1.497
151.50	1224.3	1015.0	111.99	1.5842	1.499
152.00	1225.0	1015.7	111.97	1.5822	1.501
152.50	1225.7	1016.4	111.97	1.5803	1.502
153.00	1226.3	1017.0	111.99	1.5784	1.504
153.50	1226.9	1017.6	111.98	1.5765	1.505
154.00	1227.6	1018.3	111.97	1.5747	1.507

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
154.50	1228.2	1018.9	111.98	1.5728	1.508
155.00	1228.9	1019.6	111.98	1.5710	1.510
155.50	1229.5	1020.2	111.98	1.5691	1.512
156.00	1230.2	1020.9	111.98	1.5673	1.513
156.50	1230.8	1021.5	111.99	1.5655	1.515
157.00	1231.5	1022.2	111.98	1.5637	1.517
157.50	1232.1	1022.7	111.98	1.5619	1.518
158.00	1232.7	1023.4	111.96	1.5601	1.520
158.50	1233.4	1024.1	111.98	1.5584	1.521
159.00	1234.0	1024.7	111.99	1.5566	1.523
159.50	1234.6	1025.3	111.98	1.5549	1.524
160.00	1235.2	1025.9	111.98	1.5531	1.526
160.50	1235.8	1026.5	111.98	1.5514	1.527
161.00	1236.4	1027.1	112.00	1.5497	1.529
161.50	1237.1	1027.8	111.98	1.5480	1.530
162.00	1237.7	1028.4	111.98	1.5463	1.532
162.50	1238.3	1029.0	112.00	1.5446	1.534
163.00	1238.9	1029.6	112.00	1.5429	1.535
163.50	1239.5	1030.2	111.99	1.5413	1.536
164.00	1240.1	1030.8	112.01	1.5396	1.538
164.50	1240.6	1031.3	112.00	1.5380	1.539
165.00	1241.3	1032.0	112.01	1.5364	1.541
165.50	1241.9	1032.6	112.00	1.5347	1.542
166.00	1242.5	1033.2	112.01	1.5331	1.544
166.50	1243.0	1033.7	112.00	1.5315	1.545
167.00	1243.6	1034.3	112.01	1.5299	1.547
167.50	1244.2	1034.9	112.01	1.5284	1.548
168.00	1244.8	1035.5	112.02	1.5268	1.550
168.50	1245.3	1036.0	112.02	1.5252	1.551
169.00	1246.0	1036.7	112.01	1.5237	1.552
169.50	1246.6	1037.3	112.03	1.5221	1.554
170.00	1247.2	1037.9	112.01	1.5206	1.555
170.50	1247.7	1038.4	112.02	1.5191	1.557
171.00	1248.3	1039.0	112.01	1.5175	1.558
171.50	1248.8	1039.5	112.02	1.5160	1.560
172.00	1249.5	1040.2	112.04	1.5145	1.561
172.50	1249.9	1040.6	112.02	1.5130	1.562
173.00	1250.5	1041.2	112.03	1.5116	1.564
173.50	1251.1	1041.8	112.03	1.5101	1.565
174.00	1251.6	1042.3	112.02	1.5086	1.567
174.50	1252.2	1042.9	112.02	1.5072	1.568
175.00	1252.7	1043.4	112.01	1.5057	1.569
175.50	1253.4	1044.1	112.01	1.5043	1.571
176.00	1253.9	1044.6	112.03	1.5028	1.572
176.50	1254.4	1045.1	112.03	1.5014	1.573
177.00	1255.0	1045.7	112.03	1.5000	1.575
177.50	1255.6	1046.2	112.03	1.4986	1.576
178.00	1256.1	1046.7	112.03	1.4972	1.578
178.50	1256.6	1047.3	112.03	1.4958	1.579
179.00	1257.1	1047.8	112.04	1.4944	1.580
179.50	1257.6	1048.3	112.04	1.4930	1.582

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.  
 DATE: 01/27/98 TIME: 06:47:14

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
180.00	1258.2	1048.8	112.05	1.4917	1.583
180.50	1258.7	1049.3	112.04	1.4903	1.584
181.00	1259.2	1049.9	112.04	1.4890	1.586
181.50	1259.7	1050.4	112.04	1.4876	1.587
182.00	1260.3	1050.9	112.04	1.4863	1.588
182.50	1260.8	1051.4	112.05	1.4849	1.590
183.00	1261.3	1052.0	112.05	1.4836	1.591
183.50	1261.8	1052.5	112.06	1.4823	1.592
184.00	1262.3	1053.0	112.05	1.4810	1.594
184.50	1262.9	1053.5	112.06	1.4797	1.595
185.00	1263.4	1054.0	112.07	1.4784	1.596
185.50	1263.9	1054.6	112.06	1.4771	1.597
186.00	1264.3	1055.0	112.07	1.4758	1.598
186.50	1264.8	1055.5	112.07	1.4745	1.600
187.00	1265.3	1056.0	112.07	1.4733	1.601
187.50	1265.8	1056.5	112.17	1.4720	1.602
188.00	1266.4	1057.1	112.10	1.4707	1.604
188.50	1266.9	1057.6	111.99	1.4695	1.605
189.00	1267.4	1058.1	112.02	1.4683	1.606
189.50	1267.9	1058.6	111.90	1.4670	1.608
190.00	1268.3	1059.0	112.04	1.4658	1.609
190.50	1268.9	1059.6	112.06	1.4646	1.610
191.00	1269.3	1060.0	112.07	1.4634	1.611
191.50	1269.9	1060.6	112.07	1.4621	1.613
192.00	1270.2	1060.9	112.07	1.4609	1.614
192.50	1270.7	1061.4	112.07	1.4597	1.615
193.00	1271.2	1061.9	112.07	1.4585	1.616
193.50	1271.7	1062.4	112.07	1.4574	1.617
194.00	1272.3	1062.9	112.07	1.4562	1.619
194.50	1272.7	1063.4	112.07	1.4550	1.620
195.00	1273.2	1063.9	112.07	1.4538	1.621
195.50	1273.8	1064.5	112.07	1.4527	1.622
196.00	1274.1	1064.8	112.07	1.4515	1.623
196.50	1274.6	1065.3	112.07	1.4504	1.625
197.00	1275.0	1065.7	112.07	1.4492	1.626
197.50	1275.5	1066.2	112.07	1.4481	1.627
198.00	1276.0	1066.7	112.07	1.4470	1.628
198.50	1276.5	1067.2	112.07	1.4458	1.630
199.00	1277.0	1067.6	112.08	1.4447	1.631
199.50	1277.4	1068.1	112.08	1.4436	1.632
200.00	1277.8	1068.5	112.08	1.4425	1.633
200.50	1278.3	1069.0	112.08	1.4414	1.634
201.00	1278.7	1069.4	112.08	1.4403	1.635
201.50	1279.2	1069.9	112.09	1.4392	1.636
202.00	1279.7	1070.4	112.09	1.4381	1.638
202.50	1280.2	1070.9	112.08	1.4370	1.639
203.00	1280.6	1071.3	112.09	1.4360	1.640
203.50	1281.1	1071.8	112.07	1.4349	1.641
204.00	1281.6	1072.3	112.10	1.4338	1.642
204.50	1282.1	1072.8	112.08	1.4328	1.644
205.00	1282.5	1073.2	112.09	1.4317	1.645

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14  
 -----

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
205.50	1282.9	1073.6	112.07	1.4307	1.646
206.00	1283.4	1074.1	112.10	1.4296	1.647
206.50	1283.8	1074.4	112.10	1.4286	1.648
207.00	1284.3	1074.9	112.09	1.4275	1.649
207.50	1284.7	1075.4	112.09	1.4265	1.650
208.00	1285.2	1075.9	112.12	1.4255	1.652
208.50	1285.6	1076.3	112.10	1.4245	1.653
209.00	1286.0	1076.7	112.09	1.4234	1.654
209.50	1286.4	1077.1	112.10	1.4224	1.655
210.00	1286.9	1077.6	112.10	1.4214	1.656
210.50	1287.3	1078.0	112.11	1.4204	1.657
211.00	1287.7	1078.4	112.10	1.4194	1.658
211.50	1288.1	1078.8	112.11	1.4184	1.659
212.00	1288.5	1079.2	112.13	1.4175	1.660
212.50	1289.0	1079.6	112.12	1.4165	1.661
213.00	1289.5	1080.2	112.13	1.4155	1.663
213.50	1289.9	1080.6	112.12	1.4145	1.664
214.00	1290.4	1081.1	112.12	1.4136	1.665
214.50	1290.7	1081.4	112.13	1.4126	1.666
215.00	1291.1	1081.8	112.13	1.4116	1.667
215.50	1291.6	1082.2	112.13	1.4107	1.668
216.00	1292.0	1082.7	112.14	1.4097	1.669
216.50	1292.4	1083.1	112.13	1.4088	1.670
217.00	1292.7	1083.4	112.14	1.4078	1.671
217.50	1293.2	1083.8	112.13	1.4069	1.672
218.00	1293.7	1084.3	112.13	1.4060	1.674
218.50	1294.1	1084.8	112.14	1.4050	1.675
219.00	1294.5	1085.2	112.15	1.4041	1.676
219.50	1294.9	1085.6	112.15	1.4032	1.677
220.00	1295.3	1086.0	112.14	1.4023	1.678
220.50	1295.8	1086.4	112.13	1.4014	1.679
221.00	1296.3	1086.9	112.15	1.4005	1.680
221.50	1296.5	1087.2	112.15	1.3995	1.681
222.00	1296.9	1087.6	112.15	1.3986	1.682
222.50	1297.4	1088.1	112.15	1.3978	1.683
223.00	1297.9	1088.5	112.16	1.3969	1.684
223.50	1298.2	1088.9	112.16	1.3960	1.685
224.00	1298.7	1089.4	112.16	1.3951	1.687
224.50	1299.1	1089.8	112.16	1.3942	1.688
225.00	1299.4	1090.1	112.16	1.3933	1.689
225.50	1299.9	1090.6	112.16	1.3925	1.690
226.00	1300.4	1091.1	112.17	1.3916	1.691
226.50	1300.7	1091.4	112.17	1.3907	1.692
227.00	1301.1	1091.8	112.17	1.3899	1.693
227.50	1301.5	1092.2	112.16	1.3890	1.694
228.00	1302.0	1092.7	112.17	1.3882	1.695
228.50	1302.3	1093.0	112.18	1.3873	1.696
229.00	1302.7	1093.4	112.17	1.3865	1.697
229.50	1303.1	1093.7	112.17	1.3856	1.698
230.00	1303.5	1094.2	112.18	1.3848	1.699
230.50	1303.9	1094.6	112.18	1.3839	1.700

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10594 DST#1 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/27/98

TIME: 06:47:14

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
	231.00	1304.3	1095.0	112.18	1.3831	1.701	
	231.50	1304.6	1095.3	112.19	1.3823	1.702	
	232.00	1305.0	1095.7	112.19	1.3815	1.703	
	232.50	1305.4	1096.1	112.19	1.3806	1.704	
	233.00	1305.8	1096.5	112.19	1.3798	1.705	
	233.50	1306.2	1096.9	112.19	1.3790	1.706	
	234.00	1306.6	1097.3	112.20	1.3782	1.707	
	234.50	1306.9	1097.6	112.21	1.3774	1.708	
	235.00	1307.3	1097.9	112.17	1.3766	1.709	
	235.50	1307.8	1098.4	112.19	1.3758	1.710	
	236.00	1308.1	1098.8	112.19	1.3750	1.711	
	236.50	1308.4	1099.1	112.20	1.3742	1.712	
	237.00	1308.8	1099.5	112.20	1.3734	1.713	
	237.50	1309.2	1099.9	112.20	1.3726	1.714	
	238.00	1309.6	1100.3	112.21	1.3718	1.715	
	238.50	1309.9	1100.6	112.20	1.3711	1.716	
	239.00	1310.4	1101.0	112.21	1.3703	1.717	
	239.50	1310.7	1101.4	112.21	1.3695	1.718	
*****	End Shut-in 2	240.00	1311.1	1101.8	112.19	1.3687	1.719
*****	Final Hydro.	515.00	1908.8	0.0	112.22		



# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10594

Well Name & No. <u>Allen A-1</u>	Test No. <u>1</u>	Date <u>1-27-98</u>
Company <u>WOOLSEY PETL. CORP.</u>	Zone Tested <u>SuperVillie</u>	
Address <u>125 N. MARKET STREET 1000, WICHITA KS. 67202</u>		Elevation <u>1719</u> KB <u>1706</u> GL
Co. Rep / Geo. <u>MIKHAL MAUNE</u>	Cont. <u>DUKE DRUG #7</u>	Est. Ft. of Pay <u>15</u> Por. <u>10?</u> %
Location: Sec. <u>3</u>	Twp. <u>34<sup>S</sup></u>	Rge. <u>13<sup>W</sup></u> Co. <u>BARBER</u> State <u>Ks.</u>
No. of Copies <u>6</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested <u>3976 - 4018'</u>	Initial Str Wt./Lbs. <u>60,000</u>	Unseated Str Wt./Lbs. <u>60,000</u>
Anchor Length <u>42'</u>	Wt. Set Lbs. <u>35,000</u>	Wt. Pulled Loose/Lbs. <u>68,000</u>
Top Packer Depth <u>3971'</u>	Tool Weight <u>2100</u> II	
Bottom Packer Depth <u>3976'</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth <u>4018'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>240'</u>
Mud Wt. <u>9.1</u> LCM <u>~</u> Vis. <u>48</u> WL <u>9.6cc.</u>	Drill Pipe Size <u>4 1/2" X.H.</u>	Ft. Run <u>3739'</u>

Blow Description IF: Strong blow. 1st run of bucket in 10 sec. GTS in 15 mins.  
(see gas volume report) ISI: No blow.  
FF: Strong blow. (see gas volume report)  
FSI: weak blow. (1/2") COMMENT: Need tool 4 ft. to bit!

Recovery — Total Feet <u>470'</u>	GIP <u>3509</u>	Ft. in DC <u>240'</u>	Ft. in DP <u>230'</u>
Rec. <u>170</u> Feet Of <u>Gas cut Mud</u>	<u>20</u> %gas	%oil	%water <u>80</u> %mud
Rec. <u>120</u> Feet Of <u>GC.W.M.</u>	<u>7</u> %gas	%oil <u>33</u>	%water <u>60</u> %mud
Rec. <u>180</u> Feet Of <u>M.W.</u>	%gas	%oil <u>96</u>	%water <u>4</u> %mud
Rec. _____ Feet Of _____	%gas	%oil	%water _____ %mud
Rec. _____ Feet Of _____	%gas	%oil	%water _____ %mud

BHT 112 °F Gravity n/a °API D@ ~ °F Corrected Gravity n/a °API  
 RW .59 @ 61 °F Chlorides 14,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud <u>1431</u>	<u>1450</u> PSI	Recorder No. <u>10248</u>	T-Started <u>0647</u>
(B) First Initial Flow Pressure <u>80</u>	<u>72</u> PSI	(depth) <u>4015</u>	T-Open <u>0850</u>
(C) First Final Flow Pressure <u>125</u>	<u>117</u> PSI	Recorder No. <u>2342</u>	T-Pulled <u>1526</u>
(D) Initial Shut-in Pressure <u>1244</u>	<u>1260</u> PSI	(depth) <u>3986'</u>	T-Out <u>1750</u>
(E) Second Initial Flow Pressure <u>146</u>	<u>133</u> PSI	Recorder No. <u>~</u>	
(F) Second Final Flow Pressure <u>223</u>	<u>209</u> PSI	(depth) <u>~</u>	
(G) Final Shut-in Pressure <u>1301</u>	<u>1311</u> PSI	Initial Opening <u>30</u>	Test <u>✓</u> <u>700</u> °°
(H) Final Hydrostatic Mud <u>1896</u>	<u>1909</u> PSI	Initial Shut-in <u>60</u>	Jars <u>✓</u> <u>200</u> °°
<u>AK-1</u>	<u>Alpine</u>	Final Flow <u>60</u>	Safety Joint <u>✓</u> <u>50</u> °°
		Final Shut-in <u>240</u>	Straddle _____
			Circ. Sub _____
			Sampler _____

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 Michael K. Maune

Extra Packer \_\_\_\_\_  
 Elect. Rec. ✓ 150 °°  
 Other TIME ✓ 3 hrs @ \$30

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl. Corp. DATE 01-29-98  
 WELL NAME: Allen A-1 KB 1719.00 ft TICKET NO: 10595 DST #2  
 LOCATION : 3-34s-13w CO Barber KS GR 1706.00 ft FORMATION: Lans.  
 INTERVAL : 4388.00 To 4416.00 ft TD 4416.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0150 to 0220 hr
SI 60 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0220 to 0320 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0320 to 0420 hr
FS 180 Depth(ft )	4413.0	4413.0	4394.0	0.0	0.0	FS Fr. 0420 to 0720 hr

	Field	1	2	3	4	
A. Init Hydro	2080.0	2108.0	2075.0	0.0	0.0	T STARTED 2309 hr
B. First Flow	25.0	42.0	23.0	0.0	0.0	T ON BOTM 0140 hr
B1. Final Flow	28.0	42.0	30.0	0.0	0.0	T OPEN 0150 hr
C. In Shut-in	1360.0	1368.0	1374.0	0.0	0.0	T PULLED 0725 hr
D. Init Flow	34.0	61.0	25.0	0.0	0.0	T OUT 0930 hr
E. Final Flow	41.0	65.0	42.0	0.0	0.0	
F. Fl Shut-in	1589.0	1595.0	1583.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2063.0	2000.0	2062.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 62000.00 lbs
						Unseated Str Wt 62000.00 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 240.00 ft
						D.P. Length 4143.00 ft

RECOVERY

Tot Fluid 25.00 ft of 25.00 ft in DC and 0.00 ft in DP  
 95.00 ft of Gas in Pipe  
 25.00 ft of Drilling mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw n/c ohms @ degrees F.  
 0.00 ft of EST FT. of PAY-----5  
 SALINITY 3000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Weak to fair blow. Slow increase to 6"  
 Initial Shut-in:  
 No blow.  
 Final FLOW:  
 Fair blow. 2 - 8".  
 Final Shut-in:  
 No blow.

SAMPLES:

SENT TO:Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	48.00 S/L
W.L.	9.60 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Mikeal Maune
Contr.	Duke Drlg.
Rig #	7
Unit #	
Pump T.	LCM 3 #/bl

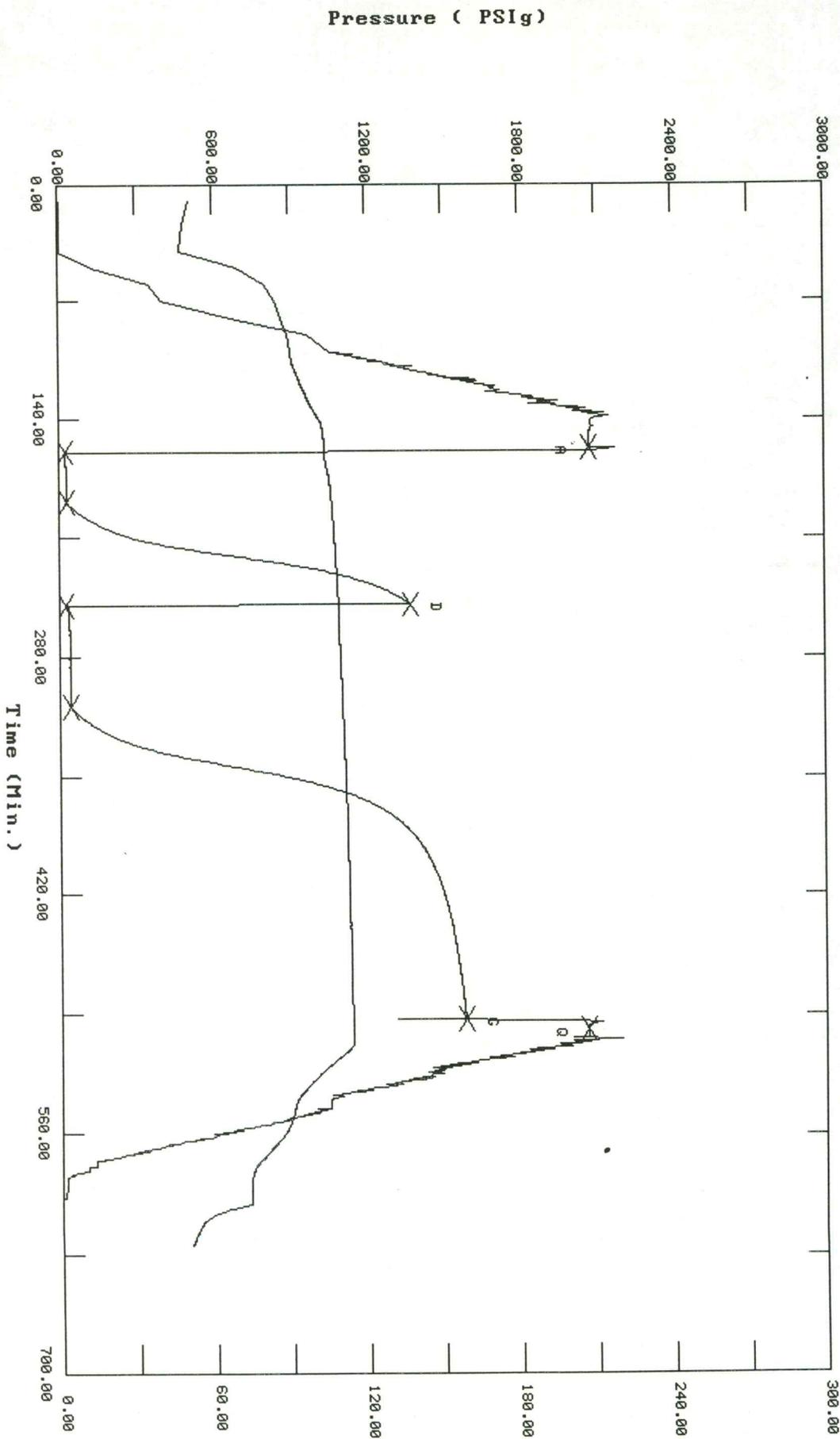
Test Successful: Y



TEST HISTORY  
 10595 DST#2 ALLEN A-1 WOOLSEY PETL. CORP.

Flag Points

t (Min.)	P (PSig)
A: 0.00	2074.86
B: 0.00	23.41
C: 30.00	29.87
D: 60.50	1374.31
E: 0.00	24.58
F: 59.00	41.54
G: 183.50	1582.79
Q: 0.00	2061.59

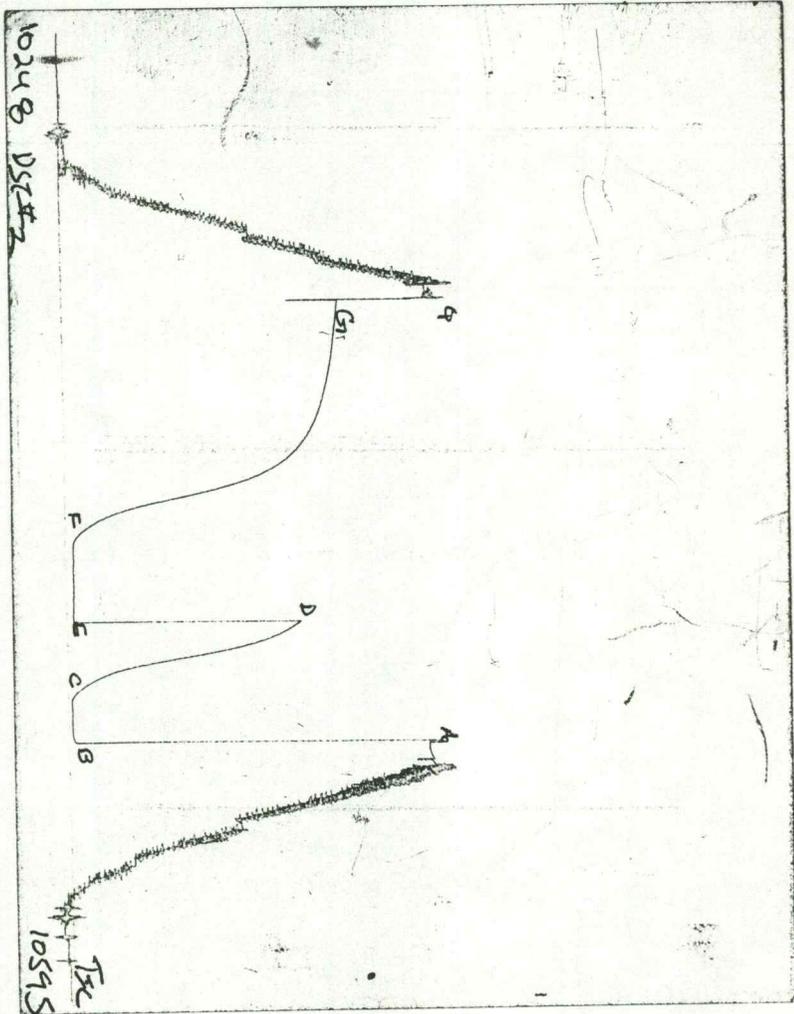


Pressure ( PSig )

Temperature ( DEG F )

Time (Min.)

CHART PAGE



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

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32  
 -----

	Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	156.50	2074.9	0.0	103.74		
***** Start Flow 1	0.00	23.4	0.0	103.86		
	0.50	29.5	6.1	103.86		
	1.00	19.8	-3.6	103.85		
	1.50	21.1	-2.3	103.86		
	2.00	21.6	-1.8	103.87		
	2.50	22.2	-1.2	103.88		
	3.00	22.4	-1.0	103.89		
	3.50	22.7	-0.8	103.92		
	4.00	22.9	-0.5	103.93		
	4.50	23.1	-0.3	103.96		
	5.00	23.2	-0.2	103.99		
	5.50	23.4	0.0	104.03		
	6.00	23.6	0.2	104.07		
	6.50	23.7	0.3	104.13		
	7.00	24.0	0.6	104.19		
	7.50	24.2	0.8	104.27		
	8.00	24.4	1.0	104.33		
	8.50	24.7	1.3	104.41		
	9.00	24.7	1.3	104.49		
	9.50	24.8	1.4	104.57		
	10.00	25.0	1.6	104.66		
	10.50	25.2	1.8	104.73		
	11.00	25.3	1.9	104.81		
	11.50	25.6	2.2	104.88		
	12.00	25.6	2.2	104.96		
	12.50	25.8	2.3	105.03		
	13.00	26.0	2.6	105.10		
	13.50	26.1	2.7	105.16		
	14.00	26.2	2.8	105.22		
	14.50	26.3	2.9	105.29		
	15.00	26.4	3.0	105.34		
	15.50	26.6	3.2	105.40		
	16.00	26.8	3.4	105.44		
	16.50	27.1	3.7	105.50		
	17.00	26.8	3.4	105.54		
	17.50	26.8	3.4	105.59		
	18.00	27.5	4.1	105.63		
	18.50	27.6	4.2	105.68		
	19.00	27.4	3.9	105.72		
	19.50	28.4	5.0	105.77		
	20.00	27.2	3.8	105.80		
	20.50	28.5	5.1	105.85		
	21.00	27.9	4.5	105.88		
	21.50	28.8	5.4	105.92		
	22.00	27.7	4.3	105.96		
	22.50	29.0	5.6	106.00		
	23.00	27.9	4.4	106.04		
	23.50	29.2	5.8	106.06		
	24.00	27.8	4.4	106.10		
	24.50	29.4	6.0	106.12		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	27.8	4.4	106.16		
	25.50	29.4	6.0	106.19		
	26.00	29.1	5.7	106.22		
	26.50	28.8	5.4	106.25		
	27.00	29.4	6.0	106.28		
	27.50	28.9	5.5	106.31		
	28.00	29.9	6.5	106.34		
	28.50	28.8	5.4	106.37		
	29.00	30.2	6.8	106.39		
	29.50	28.5	5.1	106.42		
*****	End Flow 1	30.00	29.9	6.5	106.46	
*****	Start Shutin 1	0.00	29.9	0.0	106.46	0.0000
	0.50	30.5	0.6	106.48	61.0000	0.001
	1.00	32.4	2.5	106.51	31.0000	0.001
	1.50	36.0	6.1	106.53	21.0000	0.001
	2.00	39.8	9.9	106.56	16.0000	0.002
	2.50	43.5	13.7	106.59	13.0000	0.002
	3.00	47.6	17.7	106.62	11.0000	0.002
	3.50	51.5	21.7	106.64	9.5714	0.003
	4.00	55.6	25.7	106.66	8.5000	0.003
	4.50	59.5	29.6	106.69	7.6667	0.004
	5.00	63.6	33.7	106.72	7.0000	0.004
	5.50	67.8	37.9	106.75	6.4545	0.005
	6.00	72.0	42.1	106.77	6.0000	0.005
	6.50	76.3	46.4	106.81	5.6154	0.006
	7.00	80.9	51.0	106.82	5.2857	0.007
	7.50	85.5	55.6	106.85	5.0000	0.007
	8.00	90.3	60.4	106.87	4.7500	0.008
	8.50	95.3	65.5	106.90	4.5294	0.009
	9.00	100.2	70.3	106.92	4.3333	0.010
	9.50	105.3	75.5	106.95	4.1579	0.011
	10.00	110.6	80.7	106.97	4.0000	0.012
	10.50	116.1	86.2	106.99	3.8571	0.013
	11.00	121.7	91.8	107.02	3.7273	0.015
	11.50	127.4	97.5	107.04	3.6087	0.016
	12.00	133.4	103.5	107.06	3.5000	0.018
	12.50	139.6	109.7	107.08	3.4000	0.019
	13.00	145.8	115.9	107.11	3.3077	0.021
	13.50	152.3	122.5	107.13	3.2222	0.023
	14.00	159.0	129.2	107.15	3.1429	0.025
	14.50	166.0	136.1	107.17	3.0690	0.028
	15.00	173.2	143.3	107.19	3.0000	0.030
	15.50	180.6	150.7	107.22	2.9355	0.033
	16.00	188.2	158.4	107.24	2.8750	0.035
	16.50	196.0	166.2	107.26	2.8182	0.038
	17.00	204.3	174.4	107.28	2.7647	0.042
	17.50	212.6	182.7	107.30	2.7143	0.045
	18.00	221.3	191.4	107.32	2.6667	0.049
	18.50	230.3	200.4	107.35	2.6216	0.053
	19.00	239.7	209.8	107.37	2.5789	0.057
	19.50	249.3	219.5	107.39	2.5385	0.062

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.00	259.3	229.5	107.40	2.5000	0.067
20.50	269.7	239.9	107.43	2.4634	0.073
21.00	280.5	250.6	107.46	2.4286	0.079
21.50	291.5	261.6	107.46	2.3953	0.085
22.00	303.1	273.3	107.49	2.3636	0.092
22.50	315.1	285.3	107.51	2.3333	0.099
23.00	327.7	297.9	107.53	2.3043	0.107
23.50	340.7	310.8	107.56	2.2766	0.116
24.00	354.2	324.3	107.58	2.2500	0.125
24.50	369.0	339.2	107.60	2.2245	0.136
25.00	385.4	355.5	107.62	2.2000	0.149
25.50	402.3	372.4	107.64	2.1765	0.162
26.00	419.7	389.8	107.66	2.1538	0.176
26.50	437.8	408.0	107.68	2.1321	0.192
27.00	456.5	426.6	107.70	2.1111	0.208
27.50	475.7	445.8	107.72	2.0909	0.226
28.00	495.4	465.5	107.75	2.0714	0.245
28.50	515.8	485.9	107.77	2.0526	0.266
29.00	536.7	506.8	107.79	2.0345	0.288
29.50	558.1	528.2	107.81	2.0169	0.311
30.00	579.8	550.0	107.83	2.0000	0.336
30.50	602.1	572.2	107.85	1.9836	0.363
31.00	624.6	594.7	107.87	1.9677	0.390
31.50	647.2	617.4	107.90	1.9524	0.419
32.00	670.0	640.1	107.92	1.9375	0.449
32.50	692.9	663.0	107.94	1.9231	0.480
33.00	715.6	685.8	107.95	1.9091	0.512
33.50	738.5	708.6	107.97	1.8955	0.545
34.00	761.1	731.3	108.01	1.8824	0.579
34.50	783.5	753.7	108.02	1.8696	0.614
35.00	805.5	775.7	108.04	1.8571	0.649
35.50	827.3	797.4	108.06	1.8451	0.684
36.00	848.6	818.7	108.08	1.8333	0.720
36.50	869.5	839.6	108.10	1.8219	0.756
37.00	890.0	860.1	108.12	1.8108	0.792
37.50	909.9	880.0	108.14	1.8000	0.828
38.00	929.2	899.3	108.16	1.7895	0.863
38.50	948.0	918.1	108.19	1.7792	0.899
39.00	966.1	936.2	108.18	1.7692	0.933
39.50	983.7	953.8	108.23	1.7595	0.968
40.00	1000.8	971.0	108.24	1.7500	1.002
40.50	1017.4	987.5	108.26	1.7407	1.035
41.00	1033.4	1003.5	108.28	1.7317	1.068
41.50	1048.8	1018.9	108.30	1.7229	1.100
42.00	1063.6	1033.7	108.31	1.7143	1.131
42.50	1077.9	1048.0	108.34	1.7059	1.162
43.00	1091.6	1061.8	108.35	1.6977	1.192
43.50	1105.0	1075.1	108.37	1.6897	1.221
44.00	1117.8	1088.0	108.39	1.6818	1.250
44.50	1130.2	1100.4	108.41	1.6742	1.277
45.00	1142.2	1112.3	108.42	1.6667	1.305

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
45.50	1153.7	1123.9	108.44	1.6593	1.331
46.00	1164.9	1135.0	108.46	1.6522	1.357
46.50	1175.8	1146.0	108.47	1.6452	1.383
47.00	1186.2	1156.4	108.50	1.6383	1.407
47.50	1196.2	1166.3	108.52	1.6316	1.431
48.00	1206.1	1176.2	108.54	1.6250	1.455
48.50	1215.5	1185.6	108.54	1.6186	1.477
49.00	1224.7	1194.8	108.56	1.6122	1.500
49.50	1233.6	1203.7	108.58	1.6061	1.522
50.00	1242.2	1212.3	108.60	1.6000	1.543
50.50	1250.5	1220.6	108.61	1.5941	1.564
51.00	1258.7	1228.8	108.64	1.5882	1.584
51.50	1266.4	1236.5	108.65	1.5825	1.604
52.00	1273.9	1244.1	108.66	1.5769	1.623
52.50	1281.4	1251.5	108.69	1.5714	1.642
53.00	1288.5	1258.7	108.70	1.5660	1.660
53.50	1295.4	1265.5	108.72	1.5607	1.678
54.00	1302.2	1272.3	108.73	1.5556	1.696
54.50	1308.8	1278.9	108.74	1.5505	1.713
55.00	1315.1	1285.3	108.76	1.5455	1.730
55.50	1321.3	1291.4	108.78	1.5405	1.746
56.00	1327.3	1297.4	108.79	1.5357	1.762
56.50	1333.2	1303.3	108.81	1.5310	1.777
57.00	1338.9	1309.0	108.83	1.5263	1.793
57.50	1344.3	1314.5	108.84	1.5217	1.807
58.00	1349.7	1319.8	108.86	1.5172	1.822
58.50	1354.9	1325.1	108.87	1.5128	1.836
59.00	1360.0	1330.2	108.88	1.5085	1.850
59.50	1364.9	1335.0	108.91	1.5042	1.863
60.00	1369.7	1339.8	108.91	1.5000	1.876
60.50	1374.3	1344.4	108.93	1.4959	1.889
0.00	24.6	0.0	108.93		
0.50	30.7	6.1	108.91		
1.00	28.3	3.7	108.90		
1.50	30.5	5.9	108.88		
2.00	31.4	6.8	108.87		
2.50	30.5	5.9	108.87		
3.00	31.5	7.0	108.86		
3.50	34.8	10.2	108.86		
4.00	35.0	10.4	108.86		
4.50	34.7	10.1	108.87		
5.00	35.1	10.5	108.87		
5.50	35.6	11.0	108.88		
6.00	35.7	11.1	108.89		
6.50	35.9	11.3	108.90		
7.00	36.2	11.6	108.91		
7.50	36.2	11.7	108.92		
8.00	36.3	11.7	108.94		
8.50	36.4	11.8	108.96		
9.00	36.2	11.7	108.97		
9.50	36.1	11.5	108.98		

\*\*\*\*\* End Shut-in 1

\*\*\*\*\* Start Flow 2

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32  
 -----

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.00	36.2	11.7	108.99		
10.50	36.1	11.5	109.01		
11.00	36.0	11.4	109.03		
11.50	36.2	11.7	109.04		
12.00	36.4	11.8	109.05		
12.50	36.5	11.9	109.07		
13.00	36.3	11.7	109.08		
13.50	36.5	11.9	109.10		
14.00	37.0	12.4	109.12		
14.50	36.6	12.0	109.14		
15.00	37.2	12.6	109.15		
15.50	37.4	12.8	109.17		
16.00	37.3	12.7	109.18		
16.50	36.2	11.7	109.18		
17.00	37.7	13.1	109.21		
17.50	38.3	13.8	109.22		
18.00	37.8	13.3	109.24		
18.50	38.3	13.7	109.26		
19.00	37.8	13.2	109.28		
19.50	37.2	12.6	109.29		
20.00	38.4	13.8	109.31		
20.50	37.8	13.3	109.32		
21.00	37.4	12.8	109.34		
21.50	38.2	13.6	109.35		
22.00	37.5	12.9	109.37		
22.50	38.1	13.5	109.39		
23.00	37.7	13.1	109.40		
23.50	37.8	13.3	109.42		
24.00	37.9	13.3	109.43		
24.50	37.7	13.1	109.44		
25.00	39.0	14.4	109.45		
25.50	39.4	14.9	109.47		
26.00	38.7	14.1	109.49		
26.50	39.4	14.9	109.51		
27.00	38.2	13.6	109.51		
27.50	38.7	14.1	109.53		
28.00	39.8	15.2	109.56		
28.50	37.8	13.3	109.57		
29.00	36.7	12.1	109.58		
29.50	37.1	12.5	109.60		
30.00	38.1	13.5	109.61		
30.50	38.8	14.3	109.63		
31.00	36.8	12.2	109.65		
31.50	36.6	12.0	109.67		
32.00	36.8	12.2	109.68		
32.50	37.6	13.0	109.69		
33.00	36.8	12.2	109.71		
33.50	37.4	12.8	109.73		
34.00	38.2	13.6	109.74		
34.50	38.2	13.6	109.76		
35.00	38.1	13.5	109.77		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	35.50	36.7	12.1	109.79		
	36.00	36.6	12.0	109.80		
	36.50	37.5	12.9	109.82		
	37.00	38.4	13.8	109.84		
	37.50	37.0	12.4	109.85		
	38.00	37.7	13.1	109.87		
	38.50	37.8	13.3	109.88		
	39.00	37.4	12.8	109.89		
	39.50	38.6	14.0	109.91		
	40.00	39.1	14.5	109.92		
	40.50	39.2	14.6	109.94		
	41.00	37.4	12.8	109.96		
	41.50	37.5	12.9	109.96		
	42.00	38.8	14.2	109.98		
	42.50	39.2	14.6	109.99		
	43.00	39.3	14.7	110.01		
	43.50	38.4	13.8	110.02		
	44.00	37.3	12.8	110.04		
	44.50	38.1	13.5	110.05		
	45.00	38.8	14.3	110.06		
	45.50	39.0	14.4	110.07		
	46.00	39.1	14.5	110.09		
	46.50	39.4	14.8	110.11		
	47.00	39.2	14.6	110.11		
	47.50	40.7	16.1	110.13		
	48.00	38.3	13.7	110.14		
	48.50	38.8	14.3	110.15		
	49.00	38.7	14.1	110.17		
	49.50	39.2	14.6	110.18		
	50.00	39.9	15.4	110.20		
	50.50	41.0	16.4	110.22		
	51.00	41.0	16.4	110.22		
	51.50	41.1	16.5	110.23		
	52.00	40.3	15.7	110.25		
	52.50	40.3	15.7	110.26		
	53.00	39.5	14.9	110.28		
	53.50	40.9	16.4	110.29		
	54.00	39.9	15.4	110.30		
	54.50	40.0	15.4	110.31		
	55.00	39.6	15.0	110.33		
	55.50	39.9	15.3	110.34		
	56.00	40.9	16.4	110.36		
	56.50	40.8	16.2	110.37		
	57.00	40.5	15.9	110.37		
	57.50	41.5	16.9	110.39		
	58.00	41.6	17.0	110.41		
	58.50	40.8	16.2	110.42		
*****	End Flow 2	59.00	41.5	17.0	110.43	
*****	Start Shutin 2	0.00	41.5	0.0	110.43	0.0000
		0.50	43.5	2.0	110.45	179.0000
		1.00	46.9	5.4	110.46	90.0000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSig	delta P PSig	P DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
1.50	50.5	9.0	110.47	60.3333	0.003
2.00	53.9	12.3	110.48	45.5000	0.003
2.50	57.6	16.0	110.49	36.6000	0.003
3.00	61.2	19.6	110.50	30.6667	0.004
3.50	64.8	23.2	110.52	26.4286	0.004
4.00	68.5	26.9	110.53	23.2500	0.005
4.50	72.3	30.7	110.54	20.7778	0.005
5.00	76.0	34.5	110.56	18.8000	0.006
5.50	80.0	38.4	110.57	17.1818	0.006
6.00	83.9	42.4	110.59	15.8333	0.007
6.50	88.0	46.5	110.59	14.6923	0.008
7.00	92.2	50.7	110.60	13.7143	0.009
7.50	96.5	55.0	110.62	12.8667	0.009
8.00	101.0	59.4	110.63	12.1250	0.010
8.50	105.5	64.0	110.64	11.4706	0.011
9.00	110.0	68.5	110.66	10.8889	0.012
9.50	114.8	73.3	110.67	10.3684	0.013
10.00	119.8	78.2	110.68	9.9000	0.014
10.50	124.7	83.2	110.69	9.4762	0.016
11.00	129.9	88.4	110.71	9.0909	0.017
11.50	135.1	93.6	110.72	8.7391	0.018
12.00	140.6	99.0	110.73	8.4167	0.020
12.50	146.3	104.7	110.75	8.1200	0.021
13.00	152.0	110.4	110.76	7.8462	0.023
13.50	157.9	116.4	110.77	7.5926	0.025
14.00	164.2	122.6	110.79	7.3571	0.027
14.50	170.4	128.8	110.80	7.1379	0.029
15.00	176.7	135.2	110.82	6.9333	0.031
15.50	183.4	141.8	110.83	6.7419	0.034
16.00	190.1	148.6	110.84	6.5625	0.036
16.50	197.1	155.6	110.85	6.3939	0.039
17.00	204.4	162.9	110.86	6.2353	0.042
17.50	211.8	170.3	110.88	6.0857	0.045
18.00	219.4	177.8	110.88	5.9444	0.048
18.50	227.4	185.8	110.90	5.8108	0.052
19.00	235.4	193.9	110.91	5.6842	0.055
19.50	243.8	202.3	110.92	5.5641	0.059
20.00	252.6	211.1	110.93	5.4500	0.064
20.50	261.7	220.1	110.95	5.3415	0.068
21.00	271.1	229.5	110.96	5.2381	0.073
21.50	280.7	239.2	110.97	5.1395	0.079
22.00	290.7	249.2	110.99	5.0455	0.085
22.50	301.0	259.5	110.99	4.9556	0.091
23.00	311.7	270.2	111.01	4.8696	0.097
23.50	322.7	281.2	111.03	4.7872	0.104
24.00	333.9	292.4	111.03	4.7083	0.112
24.50	345.6	304.1	111.05	4.6327	0.119
25.00	357.6	316.1	111.05	4.5600	0.128
25.50	369.9	328.3	111.08	4.4902	0.137
26.00	382.5	341.0	111.09	4.4231	0.146
26.50	395.5	354.0	111.10	4.3585	0.156

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
27.00	408.8	367.3	111.12	4.2963	0.167
27.50	422.3	380.8	111.13	4.2364	0.178
28.00	436.2	394.7	111.14	4.1786	0.190
28.50	450.8	409.2	111.16	4.1228	0.203
29.00	466.5	424.9	111.16	4.0690	0.218
29.50	482.3	440.8	111.18	4.0169	0.233
30.00	498.6	457.1	111.19	3.9667	0.249
30.50	515.1	473.5	111.20	3.9180	0.265
31.00	531.9	490.4	111.21	3.8710	0.283
31.50	549.0	507.4	111.24	3.8254	0.301
32.00	566.2	524.6	111.24	3.7812	0.321
32.50	583.8	542.3	111.26	3.7385	0.341
33.00	601.5	560.0	111.27	3.6970	0.362
33.50	619.4	577.8	111.27	3.6567	0.384
34.00	637.3	595.8	111.30	3.6176	0.406
34.50	655.5	613.9	111.31	3.5797	0.430
35.00	673.5	632.0	111.33	3.5429	0.454
35.50	691.6	650.1	111.33	3.5070	0.478
36.00	709.6	668.1	111.34	3.4722	0.504
36.50	727.6	686.1	111.36	3.4384	0.529
37.00	745.4	703.9	111.37	3.4054	0.556
37.50	763.0	721.4	111.38	3.3733	0.582
38.00	780.5	739.0	111.40	3.3421	0.609
38.50	797.7	756.2	111.42	3.3117	0.636
39.00	814.8	773.2	111.43	3.2821	0.664
39.50	831.5	790.0	111.43	3.2532	0.691
40.00	848.0	806.5	111.45	3.2250	0.719
40.50	864.3	822.7	111.34	3.1975	0.747
41.00	880.1	838.5	111.47	3.1707	0.775
41.50	895.6	854.0	111.47	3.1446	0.802
42.00	910.7	869.2	111.49	3.1190	0.829
42.50	925.5	883.9	111.50	3.0941	0.856
43.00	939.8	898.3	111.53	3.0698	0.883
43.50	953.8	912.3	111.53	3.0460	0.910
44.00	967.5	926.0	111.54	3.0227	0.936
44.50	980.7	939.2	111.55	3.0000	0.962
45.00	993.6	952.1	111.56	2.9778	0.987
45.50	1006.1	964.6	111.56	2.9560	1.012
46.00	1018.2	976.7	111.58	2.9348	1.037
46.50	1030.0	988.5	111.59	2.9140	1.061
47.00	1041.6	1000.1	111.61	2.8936	1.085
47.50	1052.9	1011.3	111.62	2.8737	1.109
48.00	1063.9	1022.3	111.63	2.8542	1.132
48.50	1074.4	1032.9	111.63	2.8351	1.154
49.00	1084.8	1043.2	111.65	2.8163	1.177
49.50	1094.9	1053.4	111.66	2.7980	1.199
50.00	1104.7	1063.2	111.67	2.7800	1.220
50.50	1114.4	1072.8	111.68	2.7624	1.242
51.00	1123.6	1082.1	111.70	2.7451	1.263
51.50	1132.8	1091.2	111.70	2.7282	1.283
52.00	1141.6	1100.0	111.71	2.7115	1.303

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
52.50	1150.1	1108.6		111.73	2.6952	1.323
53.00	1158.6	1117.1		111.73	2.6792	1.342
53.50	1166.7	1125.1		111.74	2.6636	1.361
54.00	1174.7	1133.2		111.74	2.6481	1.380
54.50	1182.5	1140.9		111.77	2.6330	1.398
55.00	1190.1	1148.6		111.77	2.6182	1.416
55.50	1197.4	1155.9		111.79	2.6036	1.434
56.00	1204.6	1163.1		111.80	2.5893	1.451
56.50	1211.6	1170.0		111.80	2.5752	1.468
57.00	1218.4	1176.8		111.81	2.5614	1.484
57.50	1225.0	1183.5		111.83	2.5478	1.501
58.00	1231.5	1189.9		111.83	2.5345	1.517
58.50	1237.7	1196.1		111.83	2.5214	1.532
59.00	1243.9	1202.4		111.85	2.5085	1.547
59.50	1249.8	1208.2		111.87	2.4958	1.562
60.00	1255.6	1214.0		111.87	2.4833	1.576
60.50	1261.3	1219.7		111.88	2.4711	1.591
61.00	1266.7	1225.2		112.02	2.4590	1.605
61.50	1272.2	1230.6		111.90	2.4472	1.618
62.00	1277.4	1235.8		111.92	2.4355	1.632
62.50	1282.4	1240.9		111.93	2.4240	1.645
63.00	1287.4	1245.9		111.93	2.4127	1.658
63.50	1292.4	1250.9		111.93	2.4016	1.670
64.00	1297.0	1255.5		111.95	2.3906	1.682
64.50	1301.7	1260.2		111.96	2.3798	1.694
65.00	1306.2	1264.6		111.95	2.3692	1.706
65.50	1310.6	1269.1		112.00	2.3588	1.718
66.00	1314.9	1273.4		111.98	2.3485	1.729
66.50	1319.2	1277.6		112.00	2.3383	1.740
67.00	1323.2	1281.7		112.01	2.3284	1.751
67.50	1327.2	1285.7		112.01	2.3185	1.762
68.00	1331.1	1289.6		112.03	2.3088	1.772
68.50	1335.0	1293.5		112.03	2.2993	1.782
69.00	1338.6	1297.1		112.04	2.2899	1.792
69.50	1342.4	1300.9		112.06	2.2806	1.802
70.00	1346.0	1304.5		112.06	2.2714	1.812
70.50	1349.5	1307.9		112.07	2.2624	1.821
71.00	1352.9	1311.4		112.07	2.2535	1.830
71.50	1356.3	1314.8		112.08	2.2448	1.840
72.00	1359.6	1318.1		112.08	2.2361	1.849
72.50	1362.9	1321.4		112.09	2.2276	1.857
73.00	1366.1	1324.5		112.09	2.2192	1.866
73.50	1369.2	1327.7		112.11	2.2109	1.875
74.00	1372.3	1330.8		112.10	2.2027	1.883
74.50	1375.3	1333.8		112.12	2.1946	1.891
75.00	1378.2	1336.6		112.13	2.1867	1.899
75.50	1381.1	1339.6		112.13	2.1788	1.907
76.00	1383.8	1342.3		112.16	2.1711	1.915
76.50	1386.6	1345.1		112.16	2.1634	1.923
77.00	1389.3	1347.8		112.17	2.1558	1.930
77.50	1392.0	1350.5		112.18	2.1484	1.938

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
78.00	1394.7	1353.2	112.10	2.1410	1.945
78.50	1397.2	1355.7	112.20	2.1338	1.952
79.00	1399.7	1358.2	112.21	2.1266	1.959
79.50	1402.3	1360.7	112.20	2.1195	1.966
80.00	1404.7	1363.2	112.22	2.1125	1.973
80.50	1407.0	1365.5	112.24	2.1056	1.980
81.00	1409.5	1367.9	112.24	2.0988	1.987
81.50	1411.7	1370.2	112.24	2.0920	1.993
82.00	1414.0	1372.5	112.26	2.0854	1.999
82.50	1416.2	1374.7	112.28	2.0788	2.006
83.00	1418.4	1376.8	112.28	2.0723	2.012
83.50	1420.6	1379.0	112.31	2.0659	2.018
84.00	1422.7	1381.1	112.30	2.0595	2.024
84.50	1424.8	1383.2	112.30	2.0533	2.030
85.00	1426.8	1385.3	112.31	2.0471	2.036
85.50	1428.9	1387.3	112.32	2.0409	2.042
86.00	1430.9	1389.3	112.32	2.0349	2.047
86.50	1432.8	1391.3	112.33	2.0289	2.053
87.00	1434.7	1393.2	112.33	2.0230	2.058
87.50	1436.6	1395.0	112.35	2.0171	2.064
88.00	1438.4	1396.9	112.36	2.0114	2.069
88.50	1440.4	1398.8	112.36	2.0056	2.075
89.00	1442.1	1400.6	112.38	2.0000	2.080
89.50	1443.9	1402.4	112.37	1.9944	2.085
90.00	1445.7	1404.2	112.39	1.9889	2.090
90.50	1447.5	1406.0	112.40	1.9834	2.095
91.00	1449.1	1407.6	112.41	1.9780	2.100
91.50	1450.9	1409.3	112.41	1.9727	2.105
92.00	1452.4	1410.9	112.42	1.9674	2.110
92.50	1454.1	1412.6	112.45	1.9622	2.114
93.00	1455.7	1414.2	112.43	1.9570	2.119
93.50	1457.3	1415.8	112.43	1.9519	2.124
94.00	1458.8	1417.3	112.46	1.9468	2.128
94.50	1460.4	1418.9	112.47	1.9418	2.133
95.00	1461.9	1420.4	112.47	1.9368	2.137
95.50	1463.4	1421.8	112.48	1.9319	2.141
96.00	1465.0	1423.4	112.49	1.9271	2.146
96.50	1466.3	1424.8	112.49	1.9223	2.150
97.00	1467.7	1426.2	112.50	1.9175	2.154
97.50	1469.2	1427.7	112.52	1.9128	2.159
98.00	1470.6	1429.0	112.52	1.9082	2.163
98.50	1472.1	1430.5	112.52	1.9036	2.167
99.00	1473.4	1431.9	112.53	1.8990	2.171
99.50	1474.7	1433.2	112.54	1.8945	2.175
100.00	1476.0	1434.5	112.52	1.8900	2.179
100.50	1477.4	1435.8	112.56	1.8856	2.183
101.00	1478.6	1437.1	112.56	1.8812	2.186
101.50	1479.9	1438.4	112.57	1.8768	2.190
102.00	1481.1	1439.6	112.58	1.8725	2.194
102.50	1482.4	1440.9	112.59	1.8683	2.198
103.00	1483.7	1442.1	112.59	1.8641	2.201

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
103.50	1484.9	1443.4	112.63	1.8599	2.205
104.00	1486.1	1444.6	112.61	1.8558	2.208
104.50	1487.3	1445.7	112.62	1.8517	2.212
105.00	1488.5	1446.9	112.64	1.8476	2.215
105.50	1489.6	1448.1	112.64	1.8436	2.219
106.00	1490.7	1449.2	112.64	1.8396	2.222
106.50	1491.9	1450.4	112.65	1.8357	2.226
107.00	1493.0	1451.4	112.66	1.8318	2.229
107.50	1494.1	1452.5	112.67	1.8279	2.232
108.00	1495.2	1453.6	112.68	1.8241	2.236
108.50	1496.3	1454.7	112.69	1.8203	2.239
109.00	1497.3	1455.8	112.69	1.8165	2.242
109.50	1498.4	1456.9	112.70	1.8128	2.245
110.00	1499.5	1458.0	112.70	1.8091	2.249
110.50	1500.5	1459.0	112.71	1.8054	2.252
111.00	1501.5	1460.0	112.72	1.8018	2.255
111.50	1502.6	1461.0	112.71	1.7982	2.258
112.00	1503.5	1461.9	112.74	1.7946	2.260
112.50	1504.6	1463.0	112.74	1.7911	2.264
113.00	1505.5	1464.0	112.75	1.7876	2.266
113.50	1506.4	1464.9	112.76	1.7841	2.269
114.00	1507.4	1465.9	112.77	1.7807	2.272
114.50	1508.3	1466.8	112.79	1.7773	2.275
115.00	1509.2	1467.6	112.78	1.7739	2.278
115.50	1510.2	1468.7	112.79	1.7706	2.281
116.00	1511.1	1469.6	112.79	1.7672	2.283
116.50	1512.0	1470.4	112.80	1.7639	2.286
117.00	1512.9	1471.3	112.82	1.7607	2.289
117.50	1513.7	1472.2	112.82	1.7574	2.291
118.00	1514.7	1473.2	112.82	1.7542	2.294
118.50	1515.6	1474.0	112.83	1.7511	2.297
119.00	1516.4	1474.9	112.84	1.7479	2.299
119.50	1517.2	1475.7	112.84	1.7448	2.302
120.00	1518.1	1476.5	112.84	1.7417	2.305
120.50	1519.0	1477.5	112.86	1.7386	2.307
121.00	1519.7	1478.1	112.86	1.7355	2.309
121.50	1520.6	1479.1	112.87	1.7325	2.312
122.00	1521.4	1479.8	112.88	1.7295	2.315
122.50	1522.2	1480.7	112.89	1.7265	2.317
123.00	1522.9	1481.4	112.89	1.7236	2.319
123.50	1523.8	1482.2	112.91	1.7206	2.322
124.00	1524.5	1483.0	112.91	1.7177	2.324
124.50	1525.3	1483.8	112.92	1.7149	2.327
125.00	1526.1	1484.6	112.93	1.7120	2.329
125.50	1527.0	1485.4	112.93	1.7092	2.332
126.00	1527.7	1486.2	112.95	1.7063	2.334
126.50	1528.4	1486.9	112.95	1.7036	2.336
127.00	1529.2	1487.6	112.96	1.7008	2.338
127.50	1529.8	1488.3	112.97	1.6980	2.340
128.00	1528.6	1487.0	113.03	1.6953	2.337
128.50	1529.2	1487.6	113.17	1.6926	2.338

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
129.00	1530.0	1488.5	113.02	1.6899	2.341
129.50	1532.8	1491.2	112.88	1.6873	2.349
130.00	1533.4	1491.9	112.87	1.6846	2.351
130.50	1534.2	1492.7	112.96	1.6820	2.354
131.00	1532.8	1491.3	113.00	1.6794	2.350
131.50	1533.4	1491.9	113.01	1.6768	2.351
132.00	1534.1	1492.6	113.02	1.6742	2.353
132.50	1534.9	1493.3	113.03	1.6717	2.356
133.00	1535.5	1493.9	113.04	1.6692	2.358
133.50	1536.2	1494.7	113.04	1.6667	2.360
134.00	1536.8	1495.3	113.05	1.6642	2.362
134.50	1537.5	1495.9	113.06	1.6617	2.364
135.00	1538.1	1496.6	113.07	1.6593	2.366
135.50	1538.7	1497.2	113.08	1.6568	2.368
136.00	1539.3	1497.8	113.08	1.6544	2.369
136.50	1540.0	1498.4	113.09	1.6520	2.372
137.00	1540.6	1499.0	113.10	1.6496	2.373
137.50	1541.2	1499.7	113.10	1.6473	2.375
138.00	1541.8	1500.3	113.11	1.6449	2.377
138.50	1542.4	1500.9	113.13	1.6426	2.379
139.00	1543.0	1501.5	113.13	1.6403	2.381
139.50	1543.6	1502.1	113.13	1.6380	2.383
140.00	1544.3	1502.7	113.15	1.6357	2.385
140.50	1544.9	1503.3	113.15	1.6335	2.387
141.00	1545.4	1503.9	113.15	1.6312	2.388
141.50	1545.9	1504.4	113.17	1.6290	2.390
142.00	1546.5	1505.0	113.17	1.6268	2.392
142.50	1547.0	1505.5	113.17	1.6246	2.393
143.00	1547.7	1506.2	113.20	1.6224	2.395
143.50	1548.3	1506.8	113.17	1.6202	2.397
144.00	1548.7	1507.2	113.19	1.6181	2.399
144.50	1549.3	1507.8	113.20	1.6159	2.400
145.00	1549.9	1508.4	113.21	1.6138	2.402
145.50	1550.4	1508.9	113.23	1.6117	2.404
146.00	1551.0	1509.4	113.22	1.6096	2.406
146.50	1551.5	1509.9	113.22	1.6075	2.407
147.00	1552.1	1510.5	113.24	1.6054	2.409
147.50	1552.6	1511.0	113.24	1.6034	2.410
148.00	1553.1	1511.5	113.25	1.6014	2.412
148.50	1553.7	1512.1	113.26	1.5993	2.414
149.00	1554.2	1512.6	113.26	1.5973	2.415
149.50	1554.6	1513.1	113.27	1.5953	2.417
150.00	1555.2	1513.6	113.27	1.5933	2.419
150.50	1555.5	1514.0	113.28	1.5914	2.420
151.00	1556.1	1514.6	113.29	1.5894	2.421
151.50	1556.6	1515.1	113.30	1.5875	2.423
152.00	1557.1	1515.6	113.31	1.5855	2.425
152.50	1557.6	1516.1	113.31	1.5836	2.426
153.00	1558.1	1516.6	113.32	1.5817	2.428
153.50	1558.5	1517.0	113.34	1.5798	2.429
154.00	1559.0	1517.5	113.33	1.5779	2.431

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
154.50	1559.5	1517.9	113.34	1.5761	2.432
155.00	1560.0	1518.4	113.35	1.5742	2.433
155.50	1560.4	1518.8	113.34	1.5723	2.435
156.00	1561.0	1519.4	113.36	1.5705	2.437
156.50	1561.4	1519.8	113.36	1.5687	2.438
157.00	1561.8	1520.3	113.36	1.5669	2.439
157.50	1562.3	1520.8	113.38	1.5651	2.441
158.00	1562.7	1521.2	113.39	1.5633	2.442
158.50	1563.2	1521.7	113.40	1.5615	2.444
159.00	1563.7	1522.1	113.39	1.5597	2.445
159.50	1564.1	1522.5	113.40	1.5580	2.446
160.00	1564.5	1523.0	113.41	1.5562	2.448
160.50	1564.9	1523.4	113.42	1.5545	2.449
161.00	1565.3	1523.8	113.42	1.5528	2.450
161.50	1565.8	1524.3	113.42	1.5511	2.452
162.00	1566.3	1524.7	113.43	1.5494	2.453
162.50	1566.7	1525.1	113.44	1.5477	2.454
163.00	1567.1	1525.6	113.45	1.5460	2.456
163.50	1567.5	1526.0	113.46	1.5443	2.457
164.00	1567.9	1526.4	113.49	1.5427	2.458
164.50	1568.4	1526.9	113.46	1.5410	2.460
165.00	1568.8	1527.2	113.47	1.5394	2.461
165.50	1569.3	1527.7	113.48	1.5378	2.463
166.00	1569.7	1528.2	113.48	1.5361	2.464
166.50	1570.1	1528.6	113.49	1.5345	2.465
167.00	1570.4	1528.9	113.50	1.5329	2.466
167.50	1571.0	1529.4	113.50	1.5313	2.468
168.00	1571.3	1529.8	113.51	1.5298	2.469
168.50	1571.7	1530.2	113.52	1.5282	2.470
169.00	1572.1	1530.6	113.53	1.5266	2.472
169.50	1572.5	1531.0	113.54	1.5251	2.473
170.00	1573.0	1531.4	113.53	1.5235	2.474
170.50	1573.4	1531.9	113.54	1.5220	2.476
171.00	1573.8	1532.3	113.56	1.5205	2.477
171.50	1574.1	1532.6	113.55	1.5190	2.478
172.00	1574.5	1532.9	113.56	1.5174	2.479
172.50	1574.9	1533.4	113.57	1.5159	2.480
173.00	1575.2	1533.7	113.58	1.5145	2.481
173.50	1575.7	1534.1	113.58	1.5130	2.483
174.00	1576.0	1534.5	113.59	1.5115	2.484
174.50	1576.3	1534.8	113.59	1.5100	2.485
175.00	1576.5	1535.0	113.61	1.5086	2.485
175.50	1576.9	1535.4	113.61	1.5071	2.487
176.00	1577.2	1535.7	113.62	1.5057	2.488
176.50	1577.7	1536.1	113.61	1.5042	2.489
177.00	1578.1	1536.6	113.62	1.5028	2.490
177.50	1578.4	1536.9	113.63	1.5014	2.491
178.00	1578.8	1537.3	113.64	1.5000	2.493
178.50	1579.3	1537.7	113.66	1.4986	2.494
179.00	1579.6	1538.1	113.66	1.4972	2.495
179.50	1579.9	1538.4	113.66	1.4958	2.496

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10595 DST#2 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/28/98

TIME: 23:09:32

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	180.00	1580.3	1538.7	113.67	1.4944	2.497
	180.50	1580.8	1539.2	113.67	1.4931	2.499
	181.00	1581.0	1539.5	113.68	1.4917	2.500
	181.50	1581.4	1539.9	113.69	1.4904	2.501
	182.00	1581.8	1540.2	113.71	1.4890	2.502
	182.50	1582.1	1540.6	113.69	1.4877	2.503
	183.00	1582.5	1541.0	113.71	1.4863	2.504
***** End Shut-in 2	183.50	1582.8	1541.3	113.72	1.4850	2.505
***** Final Hydro.	498.50	2061.6	0.0	113.89		

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10595

Well Name & No. <u>ALLEN A-1</u>	Test No. <u>2</u>	Date <u>1-29-98</u>
Company <u>WOOLSEY PET. CORP.</u>	Zone Tested <u>LANSIE</u>	<input checked="" type="checkbox"/> <u>GL</u>
Address <u>125 N. MARKET, SUITE 100 WICHITA Ks. 67202</u>	Elevation <u>1719</u>	KB <u>1006</u>
Co. Rep / Geo. <u>MICHAEL MAUNE</u>	Cont. <u>DUKE DRUG #7</u>	Est. Ft. of Pay <u>5</u> Por. <u>10</u> %
Location: Sec. <u>3</u> Twp. <u>34 S</u> Rge. <u>13 W</u> Co. <u>BARBER</u> State <u>Ks.</u>	No. of Copies <u>6</u>	Distribution Sheet (Y, N) <u>N</u> Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4388 - 4416'</u>	Initial Str Wt./Lbs. <u>62,000</u>	Unseated Str Wt./Lbs. <u>62,000</u>
Anchor Length <u>28'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>10,000</u>
Top Packer Depth <u>4383'</u>	Tool Weight <u>2100 lb</u>	
Bottom Packer Depth <u>4388'</u>	Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>4416'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>240'</u>
Mud Wt. <u>9.1</u> LCM <u>3 1/2 #</u> Vis. <u>48</u> WL <u>9.6 cc.</u>	Drill Pipe Size <u>4 1/2" x 14</u>	Ft. Run <u>4643'</u>
Blow Description <u>IF: Weak test fair below. Blow increase to 6".</u>		

FF: Fair below. (2 - 8")

Recovery — Total Feet <u>25</u>	GIP <u>25</u>	Ft. in DC <u>25</u>	Ft. in DP <u>~</u>	
Rec. <u>25</u> Feet Of <u>Dry Mud</u>	%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
Rec. _____ Feet Of _____	%gas	%oil	%water	%mud

BHT 114 °F Gravity N/A °API D@ ~ °F Corrected Gravity N/A °API  
 RW N.C. @ ~ °F Chlorides 3,000 ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud <u>2080</u>	<u>2075</u> PSI	Recorder No. <u>10248</u>	T-Started <u>2309</u>
(B) First Initial Flow Pressure <u>25</u>	<u>23</u> PSI	(depth) <u>4413'</u>	T-Open <u>0150</u>
(C) First Final Flow Pressure <u>28</u>	<u>30</u> PSI	Recorder No. <u>2342</u>	T-Pulled <u>0725</u>
(D) Initial Shut-in Pressure <u>1360</u>	<u>1374</u> PSI	(depth) <u>4394'</u>	T-Out <u>0930</u>
(E) Second Initial Flow Pressure <u>34</u>	<u>25</u> PSI	Recorder No. <u>~</u>	
(F) Second Final Flow Pressure <u>41</u>	<u>42</u> PSI	(depth) <u>~</u>	
(G) Final Shut-in Pressure <u>1589</u>	<u>1583</u> PSI	Initial Opening <u>30</u>	Test <u>✓ 700<sup>cc</sup></u>
(H) Final Hydrostatic Mud <u>2043</u>	<u>2062</u> PSI	Initial Shut-in <u>60</u>	Jars <u>✓ 200<sup>cc</sup></u>
<u>AK-1</u>	<u>Alpine</u>	Final Flow <u>60</u>	Safety Joint <u>✓ 50<sup>cc</sup></u>
		Final Shut-in <u>180</u>	Straddle _____
			Circ. Sub _____
			Sampler _____
			Extra Packer <u>✓</u>
			Elect. Rec. <u>✓ 150<sup>cc</sup></u>
			Other <u>IMEV 2 hrs @ \$30</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 Michael K. Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petroleum Corp.  
 WELL NAME: Allen A-1  
 LOCATION : 3-34s-13w CO Barber KS  
 INTERVAL : 4564.00 To 4590.00 ft

DATE 01-30-98

KB 1719.00 ft TICKET NO: 10596 DST #3  
 GR 1706.00 ft FORMATION: Swope  
 TD 4590.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 0624 to 0654 hr
SI 60 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0654 to 0754 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0754 to 0854 hr
FS 240 Depth(ft )	4587.0	4587.0	4570.0	0.0	0.0	FS Fr. 0854 to 1454 hr

	Field	1	2	3	4	
A. Init Hydro	2179.0	2197.0	2178.0	0.0	0.0	T STARTED 0412 hr
B. First Flow	69.0	84.0	67.0	0.0	0.0	T ON BOTM 0620 hr
B1. Final Flow	144.0	153.0	131.0	0.0	0.0	T OPEN 0624 hr
C. In Shut-in	1633.0	1653.0	1653.0	0.0	0.0	T PULLED 1257 hr
D. Init Flow	150.0	183.0	145.0	0.0	0.0	T OUT 1508 hr
E. Final Flow	261.0	266.0	267.0	0.0	0.0	
F. Fl Shut-in	1670.0	1657.0	1677.0	0.0	0.0	
G. Final Hydro	2173.0	2179.0	2171.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I	T		Tool Wt. 2100.00 lbs
						Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 63000.00 lbs
						Unseated Str Wt 64000.00 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 240.00 ft
						D.P. Length 4301.00 ft

RECOVERY

Tot Fluid 505.00 ft of 240.00 ft in DC and 265.00 ft in DP  
 2020.00 ft of Gas in Pipe  
 2.00 ft of Clean oil.  
 78.00 ft of Gassy oil cut mud 25%g 22%o 53%m  
 185.00 ft of Gasy cut muddy water with oil specs.  
 0.00 ft of 15%g 75%w 10%m  
 240.00 ft of Gassy salt water  
 0.00 ft of Rw .12 ohms @ 66 degrees F.  
 0.00 ft of EST FT. of PAY-----14  
 SALINITY 68000.00 P.P.M. A.P.I. Gravity 40.50

MUD DATA-----

Mud Type	Chemical
Weight	8.90 lb/c
Vis.	52.00 S/L
W.L.	9.60 in3
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:  
 Strong blow bottom of bucket in 70 sec.  
 Initial Shut-in:  
 Weak blow. 1 - 3 1/2".  
 Final Flow:  
 Strong blow. Botttm of bucket in 12  
 Final Shut-in:  
 Weak blow. 1 - 4" throughout.

Amt. of fill	0.00 ft
Btm. H. Temp.	123.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Mikeal Maune
Contr.	Duke Drlg.
Rig #	7
Unit #	
Pump T.	LCM 4 #/bl

SAMPLES:

SENT TO:Caraway/Liberal

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Allen A-1  
 LOCATION : 3-34s-13w CO Barber KS  
 TICKET No. 10596 D.S.T. No. 3 DATE 01-30-98  
 TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27  
 INTERVAL TOOL .....  
 BOTTOM PACKERS AND ANCHOR ..... 26  
 TOTAL TOOL ..... 53  
 DRILL COLLAR ANCHOR IN INTERVAL .....  
 .C. ANCHOR STND.Stands Single Total  
 .P. ANCHOR STND.Stands Single Total  
 TOTAL ASSEMBLY ..... 53  
 .C. ABOVE TOOLS.Stands4 Single Total 240  
 .P. ABOVE TOOLS.Stands69 Single Total 4301  
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4594  
 TOTAL DEPTH ..... 4590  
 TOTAL DRILL PIPE ABOVE K.B. .... 4

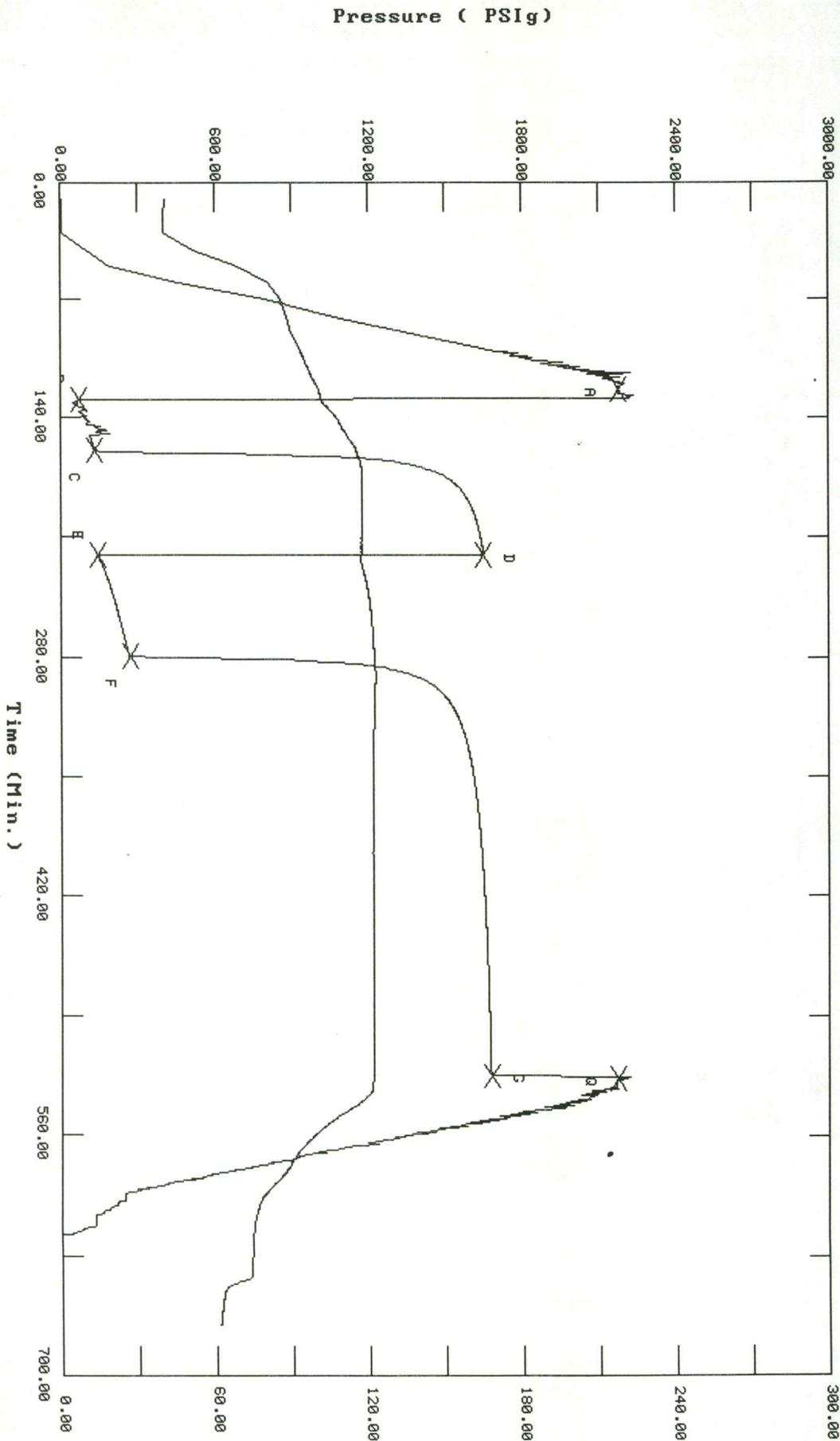
REMARKS:  
 Comments:  
 Fax reports to WPC # 316 267 4383

P.O. SUB		
C.O. SUB @ top of tool		4537
S.I. TOOL Sterling		4543
HMV Sterling		4548
JARS Bowen		4553
SAFETY JOINT Bowen		4555
PACKER Top		4559
PACKER Btm.		4564
DEPTH	4564	
STUBB 1 ft.		4565
ANCHOR		
perfs		
Alpine rec. @		4570
T.C.		
DEPTH		
20 ft. perfs to		4585
AK-1 rec. @		4587
BULLNOSE 5 ft. perforated		4590
T.D.		

TEST HISTORY  
 10596 DST#3 ALLEN A-1 WOOLSEY PETL. CORP.

Flag Points

(Min.)	(K PSIG)
A: 0.00	2178.00
B: 0.00	66.97
C: 30.50	130.75
D: 61.00	1652.53
E: 0.00	144.60
F: 58.50	266.97
G: 245.50	1677.24
Q: 0.00	2171.37

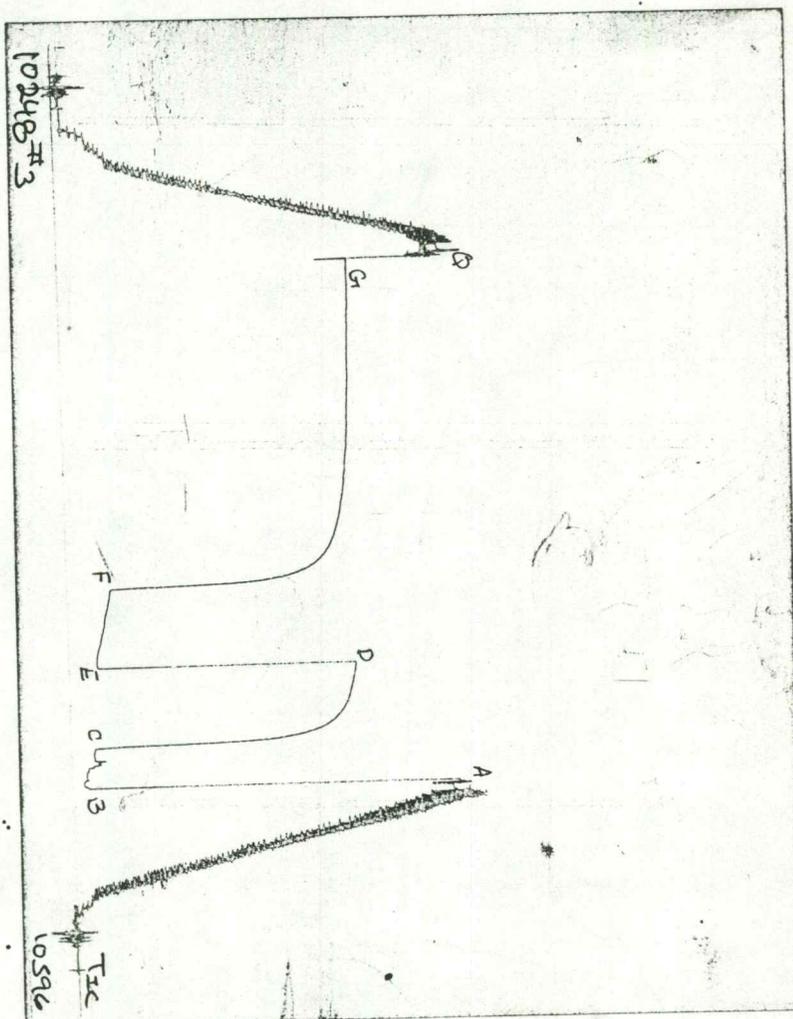


Temperature (DEG F)

Pressure ( PSIG)

Time (Min.)

CHART PAGE



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

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98 TIME: 04:12:37  
 -----

	Time	Pressure PSIG	delta P PSIG	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	123.00	2178.0	0.0	100.56		
***** Start Flow 1	0.00	67.0	0.0	101.60		
	0.50	82.2	15.3	101.68		
	1.00	57.6	-9.3	101.79		
	1.50	49.1	-17.9	101.97		
	2.00	47.4	-19.6	102.20		
	2.50	52.6	-14.4	102.47		
	3.00	62.9	-4.1	102.78		
	3.50	64.4	-2.5	103.11		
	4.00	65.6	-1.3	103.46		
	4.50	72.8	5.9	103.80		
	5.00	79.2	12.3	104.13		
	5.50	95.2	28.3	104.45		
	6.00	97.1	30.1	104.76		
	6.50	86.0	19.1	105.08		
	7.00	70.1	3.1	105.40		
	7.50	71.8	4.9	105.70		
	8.00	76.1	9.1	106.01		
	8.50	78.9	11.9	106.31		
	9.00	86.9	19.9	106.60		
	9.50	97.6	30.6	106.87		
	10.00	82.7	15.7	107.13		
	10.50	91.2	24.3	107.38		
	11.00	90.0	23.1	107.60		
	11.50	93.0	26.0	107.81		
	12.00	98.6	31.6	108.01		
	12.50	98.7	31.7	108.20		
	13.00	104.8	37.9	108.40		
	13.50	110.6	43.6	108.58		
	14.00	98.1	31.1	108.75		
	14.50	100.2	33.2	108.93		
	15.00	100.2	33.2	109.10		
	15.50	115.1	48.1	109.27		
	16.00	155.4	88.5	109.44		
	16.50	129.2	62.3	109.62		
	17.00	138.2	71.3	109.81		
	17.50	161.7	94.8	110.00		
	18.00	170.0	103.1	110.21		
	18.50	176.1	109.1	110.43		
	19.00	144.1	77.1	110.64		
	19.50	137.0	70.1	110.85		
	20.00	148.5	81.6	111.06		
	20.50	168.7	101.7	111.28		
	21.00	192.5	125.6	111.48		
	21.50	112.1	45.2	111.68		
	22.00	112.0	45.1	111.84		
	22.50	114.0	47.1	112.00		
	23.00	115.5	48.5	112.18		
	23.50	117.3	50.4	112.40		
	24.00	118.0	51.0	112.67		
	24.50	119.3	52.3	112.94		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	118.5	51.5	113.20		
	25.50	120.3	53.3	113.47		
	26.00	121.4	54.5	113.72		
	26.50	122.6	55.6	113.94		
	27.00	123.7	56.7	114.15		
	27.50	124.7	57.7	114.34		
	28.00	125.5	58.6	114.52		
	28.50	126.4	59.4	114.67		
	29.00	128.3	61.4	114.82		
	29.50	129.2	62.2	114.95		
	30.00	129.9	62.9	115.08		
*****	End Flow 1	30.50	130.8	63.8	115.21	
*****	Start Shutin 1	0.00	130.8	0.0	115.21	0.0000
		0.50	168.0	37.3	115.32	62.0000
		1.00	251.8	121.0	115.44	31.5000
		1.50	393.0	262.3	115.56	21.3333
		2.00	615.3	484.5	115.69	16.2500
		2.50	835.2	704.4	115.81	13.2000
		3.00	978.3	847.6	115.93	11.1667
		3.50	1066.3	935.5	116.05	9.7143
		4.00	1126.6	995.9	116.17	8.6250
		4.50	1172.8	1042.0	116.30	7.7778
		5.00	1210.6	1079.8	116.42	7.1000
		5.50	1242.7	1112.0	116.55	6.5455
		6.00	1270.4	1139.7	116.67	6.0833
		6.50	1295.0	1164.2	116.78	5.6923
		7.00	1316.8	1186.1	116.87	5.3571
		7.50	1336.6	1205.9	116.96	5.0667
		8.00	1354.5	1223.8	117.03	4.8125
		8.50	1370.7	1239.9	117.11	4.5882
		9.00	1385.6	1254.8	117.16	4.3889
		9.50	1399.2	1268.4	117.22	4.2105
		10.00	1411.7	1281.0	117.27	4.0500
		10.50	1423.3	1292.6	117.31	3.9048
		11.00	1434.1	1303.3	117.37	3.7727
		11.50	1444.0	1313.2	117.39	3.6522
		12.00	1453.2	1322.5	117.42	3.5417
		12.50	1461.8	1331.0	117.44	3.4400
		13.00	1469.7	1339.0	117.47	3.3462
		13.50	1477.3	1346.5	117.49	3.2593
		14.00	1484.3	1353.6	117.51	3.1786
		14.50	1491.0	1360.2	117.53	3.1034
		15.00	1497.1	1366.3	117.54	3.0333
		15.50	1503.0	1372.2	117.57	2.9677
		16.00	1508.5	1377.8	117.56	2.9062
		16.50	1513.7	1383.0	117.58	2.8485
		17.00	1518.7	1387.9	117.59	2.7941
		17.50	1523.4	1392.6	117.59	2.7429
		18.00	1527.8	1397.1	117.59	2.6944
		18.50	1532.0	1401.3	117.59	2.6486
		19.00	1536.1	1405.4	117.59	2.6053

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.50	1539.9	1409.1	117.59	2.5641	2.371
20.00	1543.6	1412.8	117.57	2.5250	2.383
20.50	1547.1	1416.4	117.57	2.4878	2.394
21.00	1550.5	1419.7	117.57	2.4524	2.404
21.50	1553.7	1423.0	117.55	2.4186	2.414
22.00	1556.9	1426.2	117.54	2.3864	2.424
22.50	1560.0	1429.2	117.53	2.3556	2.433
23.00	1562.7	1432.0	117.54	2.3261	2.442
23.50	1565.6	1434.8	117.52	2.2979	2.451
24.00	1568.2	1437.4	117.50	2.2708	2.459
24.50	1570.8	1440.0	117.49	2.2449	2.467
25.00	1573.3	1442.6	117.49	2.2200	2.475
25.50	1575.7	1444.9	117.48	2.1961	2.483
26.00	1577.9	1447.2	117.49	2.1731	2.490
26.50	1580.2	1449.4	117.46	2.1509	2.497
27.00	1582.4	1451.6	117.46	2.1296	2.504
27.50	1584.4	1453.6	117.44	2.1091	2.510
28.00	1586.5	1455.7	117.44	2.0893	2.517
28.50	1588.4	1457.7	117.42	2.0702	2.523
29.00	1590.3	1459.6	117.42	2.0517	2.529
29.50	1592.2	1461.4	117.41	2.0339	2.535
30.00	1593.9	1463.2	117.40	2.0167	2.541
30.50	1595.7	1465.0	117.39	2.0000	2.546
31.00	1597.4	1466.6	117.39	1.9839	2.552
31.50	1599.2	1468.4	117.39	1.9683	2.557
32.00	1600.7	1469.9	117.38	1.9531	2.562
32.50	1602.3	1471.6	117.38	1.9385	2.567
33.00	1603.9	1473.1	117.36	1.9242	2.572
33.50	1605.4	1474.6	117.35	1.9104	2.577
34.00	1606.8	1476.0	117.35	1.8971	2.582
34.50	1608.2	1477.5	117.34	1.8841	2.586
35.00	1609.6	1478.8	117.36	1.8714	2.591
35.50	1610.9	1480.2	117.33	1.8592	2.595
36.00	1612.2	1481.5	117.33	1.8472	2.599
36.50	1613.4	1482.7	117.32	1.8356	2.603
37.00	1614.7	1483.9	117.32	1.8243	2.607
37.50	1615.9	1485.1	117.33	1.8133	2.611
38.00	1617.0	1486.3	117.30	1.8026	2.615
38.50	1618.2	1487.5	117.30	1.7922	2.619
39.00	1619.3	1488.5	117.30	1.7821	2.622
39.50	1620.5	1489.7	117.29	1.7722	2.626
40.00	1621.6	1490.8	117.28	1.7625	2.629
40.50	1622.6	1491.8	117.29	1.7531	2.633
41.00	1623.7	1492.9	117.28	1.7439	2.636
41.50	1624.7	1493.9	117.28	1.7349	2.640
42.00	1625.7	1494.9	117.26	1.7262	2.643
42.50	1626.7	1495.9	117.27	1.7176	2.646
43.00	1627.6	1496.9	117.27	1.7093	2.649
43.50	1628.6	1497.9	117.25	1.7011	2.652
44.00	1629.5	1498.8	117.25	1.6932	2.655
44.50	1630.5	1499.7	117.26	1.6854	2.658

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98 TIME: 04:12:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	45.00	1631.3	1500.5	117.26	1.6778	2.661
	45.50	1632.2	1501.5	117.23	1.6703	2.664
	46.00	1633.0	1502.2	117.24	1.6630	2.667
	46.50	1633.9	1503.1	117.25	1.6559	2.670
	47.00	1634.7	1503.9	117.25	1.6489	2.672
	47.50	1635.5	1504.7	117.24	1.6421	2.675
	48.00	1636.2	1505.5	117.24	1.6354	2.677
	48.50	1637.0	1506.3	117.24	1.6289	2.680
	49.00	1637.8	1507.0	117.23	1.6224	2.682
	49.50	1638.5	1507.8	117.23	1.6162	2.685
	50.00	1639.2	1508.4	117.22	1.6100	2.687
	50.50	1640.0	1509.3	117.22	1.6040	2.690
	51.00	1640.7	1509.9	117.23	1.5980	2.692
	51.50	1641.4	1510.6	117.21	1.5922	2.694
	52.00	1642.0	1511.3	117.23	1.5865	2.696
	52.50	1642.7	1512.0	117.23	1.5810	2.698
	53.00	1643.4	1512.6	117.23	1.5755	2.701
	53.50	1644.0	1513.2	117.25	1.5701	2.703
	54.00	1644.6	1513.9	117.21	1.5648	2.705
	54.50	1645.2	1514.5	117.21	1.5596	2.707
	55.00	1645.9	1515.1	117.22	1.5545	2.709
	55.50	1646.5	1515.7	117.23	1.5495	2.711
	56.00	1647.1	1516.3	117.21	1.5446	2.713
	56.50	1647.7	1516.9	117.21	1.5398	2.715
	57.00	1648.2	1517.5	117.23	1.5351	2.717
	57.50	1648.8	1518.1	117.21	1.5304	2.719
	58.00	1649.3	1518.6	117.22	1.5259	2.720
	58.50	1649.8	1519.1	117.22	1.5214	2.722
	59.00	1650.4	1519.7	117.22	1.5169	2.724
	59.50	1650.9	1520.2	117.22	1.5126	2.726
	60.00	1651.5	1520.8	117.22	1.5083	2.728
	60.50	1652.0	1521.3	117.23	1.5041	2.729
*****	End Shut-in 1	61.00	1652.5	1521.8	117.21	2.731
*****	Start Flow 2	0.00	144.6	0.0	117.19	
		0.50	141.8	-2.8	117.15	
		1.00	143.1	-1.5	117.12	
		1.50	145.4	0.8	117.08	
		2.00	147.5	2.9	117.06	
		2.50	146.9	2.3	117.04	
		3.00	150.0	5.4	117.05	
		3.50	153.2	8.6	117.07	
		4.00	154.9	10.3	117.11	
		4.50	156.2	11.6	117.17	
		5.00	156.9	12.3	117.24	
		5.50	158.4	13.8	117.31	
		6.00	159.0	14.4	117.41	
		6.50	160.8	16.2	117.49	
		7.00	162.6	18.0	117.59	
		7.50	164.2	19.6	117.69	
		8.00	165.3	20.7	117.79	
		8.50	166.7	22.1	117.89	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
9.00	168.1	23.5	117.99		
9.50	169.5	24.9	118.08		
10.00	170.7	26.1	118.19		
10.50	171.9	27.3	118.28		
11.00	173.3	28.7	118.37		
11.50	174.8	30.2	118.47		
12.00	175.9	31.3	118.56		
12.50	177.2	32.6	118.65		
13.00	178.8	34.2	118.73		
13.50	179.8	35.2	118.81		
14.00	181.4	36.8	118.90		
14.50	182.5	37.9	118.99		
15.00	183.9	39.3	119.06		
15.50	185.1	40.5	119.14		
16.00	186.3	41.7	119.21		
16.50	187.5	42.9	119.29		
17.00	188.3	43.7	119.35		
17.50	189.3	44.7	119.41		
18.00	190.0	45.4	119.48		
18.50	191.2	46.6	119.55		
19.00	192.2	47.6	119.61		
19.50	193.2	48.6	119.68		
20.00	194.2	49.6	119.72		
20.50	195.2	50.6	119.79		
21.00	196.4	51.8	119.86		
21.50	197.3	52.7	119.90		
22.00	198.6	54.0	119.96		
22.50	199.7	55.1	120.01		
23.00	200.5	55.9	120.07		
23.50	201.4	56.8	120.12		
24.00	202.3	57.7	120.17		
24.50	203.3	58.7	120.21		
25.00	204.3	59.7	120.26		
25.50	205.4	60.8	120.31		
26.00	206.3	61.7	120.35		
26.50	207.4	62.8	120.40		
27.00	208.1	63.5	120.45		
27.50	209.2	64.6	120.49		
28.00	210.2	65.6	120.53		
28.50	211.0	66.4	120.57		
29.00	211.9	67.3	120.61		
29.50	213.1	68.5	120.65		
30.00	213.9	69.3	120.69		
30.50	214.8	70.2	120.73		
31.00	215.9	71.3	120.76		
31.50	216.6	72.0	120.80		
32.00	217.6	73.0	120.83		
32.50	218.5	73.9	120.87		
33.00	219.4	74.8	120.91		
33.50	220.1	75.5	120.94		
34.00	221.2	76.6	120.98		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98 TIME: 04:12:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	34.50	222.1	77.5	121.00		
	35.00	222.8	78.2	121.04		
	35.50	223.8	79.2	121.07		
	36.00	224.7	80.1	121.10		
	36.50	225.7	81.1	121.13		
	37.00	226.5	81.9	121.16		
	37.50	227.3	82.7	121.19		
	38.00	228.1	83.5	121.22		
	38.50	229.4	84.8	121.25		
	39.00	229.7	85.1	121.28		
	39.50	230.7	86.1	121.31		
	40.00	231.5	86.9	121.34		
	40.50	232.4	87.8	121.37		
	41.00	233.4	88.8	121.39		
	41.50	234.3	89.7	121.43		
	42.00	235.2	90.6	121.46		
	42.50	235.9	91.3	121.47		
	43.00	237.0	92.4	121.50		
	43.50	237.7	93.1	121.53		
	44.00	238.5	93.9	121.56		
	44.50	239.4	94.8	121.58		
	45.00	240.4	95.8	121.61		
	45.50	241.2	96.6	121.63		
	46.00	242.0	97.4	121.65		
	46.50	242.9	98.3	121.68		
	47.00	243.8	99.2	121.71		
	47.50	244.6	100	121.72		
	48.00	245.2	100.6	121.75		
	48.50	246.0	101.4	121.77		
	49.00	246.9	102.3	121.80		
	49.50	247.6	103.0	121.82		
	50.00	248.8	104.2	121.85		
	50.50	249.4	104.8	121.87		
	51.00	250.3	105.7	121.90		
	51.50	250.5	105.9	121.92		
	52.00	251.5	106.9	121.93		
	52.50	252.3	107.7	121.96		
	53.00	253.2	108.6	121.98		
	53.50	254.0	109.4	122.00		
	54.00	255.0	110.4	122.03		
	54.50	255.9	111.3	122.05		
	55.00	257.0	112.4	122.07		
	55.50	257.5	112.9	122.08		
	56.00	258.2	113.6	122.11		
	56.50	259.2	114.6	122.14		
	57.00	259.8	115.2	122.14		
	57.50	260.7	116.1	122.16		
	58.00	261.4	116.8	122.19		
*****	End Flow 2	58.50	267.0	122.4	122.20	
*****	Start Shutin 2	0.00	267.0	0.0	122.20	0.0000
		0.50	381.1	114.1	122.23	179.0000
						0.071
						0.145

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
1.00	534.0	267.1	122.25	90.0000	0.285
1.50	708.0	441.0	122.28	60.3333	0.501
2.00	857.7	590.8	122.31	45.5000	0.736
2.50	963.6	696.6	122.35	36.6000	0.928
3.00	1036.1	769.1	122.38	30.6667	1.073
3.50	1088.5	821.5	122.42	26.4286	1.185
4.00	1129.2	862.3	122.46	23.2500	1.275
4.50	1162.6	895.6	122.46	20.7778	1.352
5.00	1190.9	924.0	122.50	18.8000	1.418
5.50	1215.7	948.7	122.53	17.1818	1.478
6.00	1237.6	970.6	122.55	15.8333	1.532
6.50	1257.4	990.4	122.58	14.6923	1.581
7.00	1275.3	1008.3	122.60	13.7143	1.626
7.50	1291.6	1024.7	122.59	12.8667	1.668
8.00	1306.7	1039.7	122.61	12.1250	1.707
8.50	1320.4	1053.5	122.63	11.4706	1.744
9.00	1333.3	1066.3	122.63	10.8889	1.778
9.50	1345.0	1078.1	122.66	10.3684	1.809
10.00	1356.0	1089.0	122.66	9.9000	1.839
10.50	1366.3	1099.4	122.68	9.4762	1.867
11.00	1375.9	1108.9	122.67	9.0909	1.893
11.50	1384.8	1117.8	122.64	8.7391	1.918
12.00	1393.2	1126.2	122.66	8.4167	1.941
12.50	1401.1	1134.1	122.67	8.1200	1.963
13.00	1408.5	1141.5	122.66	7.8462	1.984
13.50	1415.5	1148.6	122.64	7.5926	2.004
14.00	1422.1	1155.2	122.65	7.3571	2.023
14.50	1428.3	1161.3	122.64	7.1379	2.040
15.00	1434.2	1167.2	122.64	6.9333	2.057
15.50	1439.8	1172.8	122.63	6.7419	2.073
16.00	1445.1	1178.2	122.61	6.5625	2.088
16.50	1450.2	1183.2	122.61	6.3939	2.103
17.00	1455.1	1188.2	122.60	6.2353	2.117
17.50	1459.7	1192.7	122.60	6.0857	2.131
18.00	1464.1	1197.1	122.60	5.9444	2.144
18.50	1468.3	1201.3	122.58	5.8108	2.156
19.00	1472.3	1205.4	122.57	5.6842	2.168
19.50	1476.2	1209.2	122.57	5.5641	2.179
20.00	1479.9	1212.9	122.55	5.4500	2.190
20.50	1483.4	1216.4	122.54	5.3415	2.201
21.00	1486.9	1220.0	122.52	5.2381	2.211
21.50	1490.2	1223.2	122.51	5.1395	2.221
22.00	1493.3	1226.4	122.50	5.0455	2.230
22.50	1496.4	1229.5	122.48	4.9556	2.239
23.00	1499.4	1232.4	122.47	4.8696	2.248
23.50	1502.2	1235.2	122.46	4.7872	2.257
24.00	1505.1	1238.1	122.45	4.7083	2.265
24.50	1507.6	1240.6	122.43	4.6327	2.273
25.00	1510.3	1243.3	122.42	4.5600	2.281
25.50	1512.8	1245.8	122.41	4.4902	2.289
26.00	1515.2	1248.3	122.41	4.4231	2.296

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
26.50	1517.6	1250.6	122.40	4.3585	2.303
27.00	1519.8	1252.9	122.38	4.2963	2.310
27.50	1522.1	1255.1	122.36	4.2364	2.317
28.00	1524.3	1257.3	122.35	4.1786	2.323
28.50	1526.4	1259.4	122.34	4.1228	2.330
29.00	1528.4	1261.4	122.31	4.0690	2.336
29.50	1530.3	1263.4	122.32	4.0169	2.342
30.00	1532.3	1265.4	122.30	3.9667	2.348
30.50	1534.3	1267.3	122.29	3.9180	2.354
31.00	1536.1	1269.2	122.27	3.8710	2.360
31.50	1537.9	1270.9	122.26	3.8254	2.365
32.00	1539.6	1272.7	122.25	3.7812	2.371
32.50	1541.3	1274.4	122.24	3.7385	2.376
33.00	1543.0	1276.0	122.23	3.6970	2.381
33.50	1544.6	1277.6	122.23	3.6567	2.386
34.00	1546.3	1279.3	122.19	3.6176	2.391
34.50	1547.8	1280.8	122.19	3.5797	2.396
35.00	1549.3	1282.3	122.18	3.5429	2.400
35.50	1550.7	1283.8	122.17	3.5070	2.405
36.00	1552.3	1285.4	122.16	3.4722	2.410
36.50	1553.7	1286.8	122.15	3.4384	2.414
37.00	1555.1	1288.1	122.13	3.4054	2.418
37.50	1556.4	1289.5	122.13	3.3733	2.422
38.00	1557.9	1290.9	122.08	3.3421	2.427
38.50	1559.1	1292.2	122.10	3.3117	2.431
39.00	1560.4	1293.4	122.10	3.2821	2.435
39.50	1561.6	1294.7	122.09	3.2532	2.439
40.00	1562.9	1295.9	122.10	3.2250	2.443
40.50	1564.2	1297.2	122.06	3.1975	2.447
41.00	1565.3	1298.4	122.06	3.1707	2.450
41.50	1566.5	1299.5	122.07	3.1446	2.454
42.00	1567.6	1300.6	122.04	3.1190	2.457
42.50	1568.7	1301.7	122.03	3.0941	2.461
43.00	1569.8	1302.8	122.02	3.0698	2.464
43.50	1570.9	1303.9	122.01	3.0460	2.468
44.00	1572.0	1305.0	122.01	3.0227	2.471
44.50	1573.0	1306.0	122.00	3.0000	2.474
45.00	1574.1	1307.2	121.98	2.9778	2.478
45.50	1575.1	1308.1	121.98	2.9560	2.481
46.00	1576.0	1309.0	121.98	2.9348	2.484
46.50	1577.0	1310.0	121.97	2.9140	2.487
47.00	1578.0	1311.0	121.96	2.8936	2.490
47.50	1579.0	1312.0	121.95	2.8737	2.493
48.00	1579.8	1312.9	121.94	2.8542	2.496
48.50	1580.8	1313.8	121.93	2.8351	2.499
49.00	1581.7	1314.7	121.91	2.8163	2.502
49.50	1582.6	1315.7	121.91	2.7980	2.505
50.00	1583.5	1316.5	121.91	2.7800	2.507
50.50	1584.3	1317.3	121.91	2.7624	2.510
51.00	1585.2	1318.3	121.89	2.7451	2.513
51.50	1586.0	1319.0	121.88	2.7282	2.515

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSIg	delta PSIg	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
52.00	1586.8	1319.8		121.87	2.7115	2.518
52.50	1587.7	1320.7		121.87	2.6952	2.521
53.00	1588.4	1321.4		121.87	2.6792	2.523
53.50	1589.2	1322.2		121.87	2.6636	2.525
54.00	1590.0	1323.0		121.86	2.6481	2.528
54.50	1590.8	1323.8		121.83	2.6330	2.531
55.00	1591.5	1324.5		121.85	2.6182	2.533
55.50	1592.3	1325.3		121.82	2.6036	2.535
56.00	1593.0	1326.1		121.83	2.5893	2.538
56.50	1593.8	1326.8		121.81	2.5752	2.540
57.00	1594.5	1327.5		121.81	2.5614	2.542
57.50	1595.1	1328.2		121.81	2.5478	2.544
58.00	1595.9	1328.9		121.80	2.5345	2.547
58.50	1596.6	1329.7		121.80	2.5214	2.549
59.00	1597.2	1330.3		121.78	2.5085	2.551
59.50	1597.9	1330.9		121.78	2.4958	2.553
60.00	1598.6	1331.6		121.78	2.4833	2.555
60.50	1599.2	1332.3		121.75	2.4711	2.558
61.00	1599.9	1332.9		121.76	2.4590	2.560
61.50	1600.6	1333.6		121.76	2.4472	2.562
62.00	1601.2	1334.2		121.74	2.4355	2.564
62.50	1601.8	1334.8		121.74	2.4240	2.566
63.00	1602.4	1335.5		121.74	2.4127	2.568
63.50	1603.0	1336.0		121.74	2.4016	2.570
64.00	1603.6	1336.6		121.74	2.3906	2.572
64.50	1604.2	1337.2		121.72	2.3798	2.573
65.00	1604.8	1337.8		121.71	2.3692	2.575
65.50	1605.3	1338.3		121.71	2.3588	2.577
66.00	1606.0	1339.0		121.71	2.3485	2.579
66.50	1606.5	1339.5		121.71	2.3383	2.581
67.00	1607.0	1340.1		121.72	2.3284	2.583
67.50	1607.5	1340.6		121.69	2.3185	2.584
68.00	1608.1	1341.2		121.68	2.3088	2.586
68.50	1608.7	1341.8		121.68	2.2993	2.588
69.00	1609.3	1342.3		121.68	2.2899	2.590
69.50	1609.7	1342.8		121.68	2.2806	2.591
70.00	1610.2	1343.3		121.68	2.2714	2.593
70.50	1610.8	1343.9		121.66	2.2624	2.595
71.00	1611.3	1344.4		121.67	2.2535	2.596
71.50	1611.8	1344.9		121.66	2.2448	2.598
72.00	1612.3	1345.4		121.65	2.2361	2.600
72.50	1612.7	1345.8		121.66	2.2276	2.601
73.00	1613.3	1346.4		121.63	2.2192	2.603
73.50	1613.8	1346.9		121.64	2.2109	2.604
74.00	1614.3	1347.3		121.65	2.2027	2.606
74.50	1614.8	1347.8		121.61	2.1946	2.607
75.00	1615.2	1348.2		121.63	2.1867	2.609
75.50	1615.7	1348.7		121.62	2.1788	2.610
76.00	1616.1	1349.1		121.62	2.1711	2.612
76.50	1616.6	1349.6		121.62	2.1634	2.613
77.00	1617.0	1350.1		121.63	2.1558	2.615

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
77.50	1617.5	1350.6	121.61	2.1484	2.616
78.00	1618.0	1351.0	121.61	2.1410	2.618
78.50	1618.5	1351.5	121.61	2.1338	2.619
79.00	1618.9	1351.9	121.61	2.1266	2.621
79.50	1619.3	1352.3	121.60	2.1195	2.622
80.00	1619.6	1352.7	121.61	2.1125	2.623
80.50	1620.1	1353.2	121.61	2.1056	2.625
81.00	1620.6	1353.6	121.58	2.0988	2.626
81.50	1621.0	1354.0	121.59	2.0920	2.628
82.00	1621.3	1354.3	121.58	2.0854	2.629
82.50	1621.8	1354.8	121.58	2.0788	2.630
83.00	1622.1	1355.2	121.58	2.0723	2.631
83.50	1622.6	1355.6	121.57	2.0659	2.633
84.00	1622.9	1355.9	121.58	2.0595	2.634
84.50	1623.4	1356.4	121.57	2.0533	2.635
85.00	1623.7	1356.8	121.58	2.0471	2.637
85.50	1624.1	1357.1	121.57	2.0409	2.638
86.00	1624.4	1357.4	121.56	2.0349	2.639
86.50	1624.8	1357.9	121.55	2.0289	2.640
87.00	1625.3	1358.3	121.56	2.0230	2.641
87.50	1625.6	1358.6	121.56	2.0171	2.643
88.00	1626.0	1359.0	121.55	2.0114	2.644
88.50	1626.4	1359.5	121.55	2.0056	2.645
89.00	1626.7	1359.7	121.55	2.0000	2.646
89.50	1627.0	1360.1	121.55	1.9944	2.647
90.00	1627.4	1360.5	121.54	1.9889	2.649
90.50	1627.8	1360.8	121.55	1.9834	2.650
91.00	1628.2	1361.2	121.55	1.9780	2.651
91.50	1628.5	1361.6	121.53	1.9727	2.652
92.00	1628.9	1361.9	121.53	1.9674	2.653
92.50	1629.1	1362.1	121.54	1.9622	2.654
93.00	1629.4	1362.5	121.53	1.9570	2.655
93.50	1629.9	1362.9	121.53	1.9519	2.656
94.00	1630.1	1363.2	121.52	1.9468	2.657
94.50	1630.5	1363.6	121.53	1.9418	2.659
95.00	1630.8	1363.8	121.53	1.9368	2.659
95.50	1631.2	1364.2	121.55	1.9319	2.661
96.00	1631.5	1364.6	121.50	1.9271	2.662
96.50	1631.9	1364.9	121.50	1.9223	2.663
97.00	1632.1	1365.2	121.51	1.9175	2.664
97.50	1632.5	1365.5	121.51	1.9128	2.665
98.00	1632.8	1365.8	121.51	1.9082	2.666
98.50	1633.1	1366.1	121.51	1.9036	2.667
99.00	1633.4	1366.4	121.50	1.8990	2.668
99.50	1633.6	1366.7	121.50	1.8945	2.669
100.00	1634.0	1367.0	121.50	1.8900	2.670
100.50	1634.3	1367.4	121.50	1.8856	2.671
101.00	1634.6	1367.6	121.50	1.8812	2.672
101.50	1634.8	1367.9	121.50	1.8768	2.673
102.00	1635.1	1368.1	121.50	1.8725	2.673
102.50	1635.5	1368.5	121.50	1.8683	2.675

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETI..CORP.

DATE: 01/30/98

TIME: 04:12:37  
 -----

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
103.00	1635.7	1368.8	121.49	1.8641	2.676
103.50	1636.1	1369.1	121.49	1.8599	2.677
104.00	1636.3	1369.4	121.49	1.8558	2.678
104.50	1636.7	1369.7	121.49	1.8517	2.679
105.00	1636.9	1370.0	121.49	1.8476	2.680
105.50	1637.3	1370.3	121.49	1.8436	2.681
106.00	1637.5	1370.5	121.49	1.8396	2.681
106.50	1637.8	1370.8	121.49	1.8357	2.682
107.00	1638.0	1371.0	121.49	1.8318	2.683
107.50	1638.3	1371.4	121.49	1.8279	2.684
108.00	1638.6	1371.6	121.48	1.8241	2.685
108.50	1638.8	1371.9	121.48	1.8203	2.686
109.00	1639.1	1372.1	121.49	1.8165	2.687
109.50	1639.4	1372.4	121.49	1.8128	2.687
110.00	1639.6	1372.6	121.49	1.8091	2.688
110.50	1639.9	1373.0	121.49	1.8054	2.689
111.00	1640.2	1373.2	121.50	1.8018	2.690
111.50	1640.4	1373.5	121.51	1.7982	2.691
112.00	1640.7	1373.7	121.60	1.7946	2.692
112.50	1640.9	1374.0	121.55	1.7911	2.693
113.00	1641.1	1374.2	121.51	1.7876	2.693
113.50	1641.5	1374.5	121.47	1.7841	2.694
114.00	1641.6	1374.7	121.44	1.7807	2.695
114.50	1641.9	1374.9	121.44	1.7773	2.696
115.00	1642.2	1375.2	121.38	1.7739	2.697
115.50	1642.5	1375.5	121.40	1.7706	2.698
116.00	1642.6	1375.7	121.43	1.7672	2.698
116.50	1642.8	1375.8	121.46	1.7639	2.699
117.00	1643.1	1376.2	121.46	1.7607	2.700
117.50	1643.3	1376.3	121.46	1.7574	2.700
118.00	1643.6	1376.7	121.46	1.7542	2.702
118.50	1643.8	1376.8	121.46	1.7511	2.702
119.00	1644.1	1377.1	121.46	1.7479	2.703
119.50	1644.3	1377.3	121.46	1.7448	2.704
120.00	1644.6	1377.6	121.46	1.7417	2.705
120.50	1644.8	1377.8	121.46	1.7386	2.705
121.00	1645.0	1378.0	121.46	1.7355	2.706
121.50	1645.2	1378.3	121.46	1.7325	2.707
122.00	1645.4	1378.4	121.45	1.7295	2.707
122.50	1645.6	1378.7	121.45	1.7265	2.708
123.00	1646.0	1379.0	121.46	1.7236	2.709
123.50	1646.2	1379.2	121.45	1.7206	2.710
124.00	1646.3	1379.4	121.46	1.7177	2.710
124.50	1646.5	1379.5	121.46	1.7149	2.711
125.00	1646.7	1379.8	121.45	1.7120	2.712
125.50	1646.9	1379.9	121.45	1.7092	2.712
126.00	1647.2	1380.2	121.46	1.7063	2.713
126.50	1647.4	1380.4	121.45	1.7036	2.714
127.00	1647.6	1380.6	121.45	1.7008	2.715
127.50	1647.7	1380.8	121.45	1.6980	2.715
128.00	1648.0	1381.0	121.46	1.6953	2.716

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
128.50	1648.2	1381.2	121.45	1.6926	2.716
129.00	1648.4	1381.5	121.46	1.6899	2.717
129.50	1648.6	1381.6	121.46	1.6873	2.718
130.00	1648.8	1381.9	121.45	1.6846	2.719
130.50	1649.0	1382.0	121.45	1.6820	2.719
131.00	1649.2	1382.2	121.45	1.6794	2.720
131.50	1649.4	1382.5	121.45	1.6768	2.721
132.00	1649.6	1382.6	121.46	1.6742	2.721
132.50	1649.8	1382.9	121.46	1.6717	2.722
133.00	1650.1	1383.1	121.48	1.6692	2.723
133.50	1650.3	1383.3	121.44	1.6667	2.723
134.00	1650.4	1383.5	121.43	1.6642	2.724
134.50	1650.7	1383.7	121.44	1.6617	2.725
135.00	1650.8	1383.8	121.44	1.6593	2.725
135.50	1651.0	1384.1	121.45	1.6568	2.726
136.00	1651.2	1384.2	121.46	1.6544	2.726
136.50	1651.4	1384.4	121.44	1.6520	2.727
137.00	1651.6	1384.6	121.44	1.6496	2.728
137.50	1651.8	1384.8	121.45	1.6473	2.728
138.00	1652.0	1385.1	121.46	1.6449	2.729
138.50	1652.1	1385.1	121.46	1.6426	2.729
139.00	1652.3	1385.3	121.47	1.6403	2.730
139.50	1652.5	1385.6	121.45	1.6380	2.731
140.00	1652.7	1385.7	121.43	1.6357	2.731
140.50	1652.9	1385.9	121.44	1.6335	2.732
141.00	1653.0	1386.1	121.44	1.6312	2.733
141.50	1653.2	1386.2	121.45	1.6290	2.733
142.00	1653.5	1386.5	121.45	1.6268	2.734
142.50	1653.5	1386.6	121.45	1.6246	2.734
143.00	1653.8	1386.8	121.44	1.6224	2.735
143.50	1654.0	1387.0	121.45	1.6202	2.736
144.00	1654.1	1387.2	121.45	1.6181	2.736
144.50	1654.3	1387.3	121.44	1.6159	2.737
145.00	1654.5	1387.5	121.44	1.6138	2.737
145.50	1654.6	1387.7	121.45	1.6117	2.738
146.00	1654.9	1387.9	121.45	1.6096	2.739
146.50	1654.9	1387.9	121.46	1.6075	2.739
147.00	1655.0	1388.1	121.46	1.6054	2.739
147.50	1655.3	1388.3	121.46	1.6034	2.740
148.00	1655.6	1388.6	121.45	1.6014	2.741
148.50	1655.6	1388.7	121.45	1.5993	2.741
149.00	1655.8	1388.8	121.45	1.5973	2.742
149.50	1656.0	1389.0	121.45	1.5953	2.742
150.00	1656.1	1389.2	121.46	1.5933	2.743
150.50	1656.4	1389.4	121.46	1.5914	2.744
151.00	1656.5	1389.5	121.46	1.5894	2.744
151.50	1656.6	1389.7	121.45	1.5875	2.744
152.00	1656.7	1389.8	121.44	1.5855	2.745
152.50	1656.9	1389.9	121.45	1.5836	2.745
153.00	1657.1	1390.1	121.46	1.5817	2.746
153.50	1657.2	1390.3	121.46	1.5798	2.746

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSIg	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
154.00	1657.4	1390.4	121.45	1.5779	2.747
154.50	1657.6	1390.6	121.45	1.5761	2.748
155.00	1657.7	1390.8	121.45	1.5742	2.748
155.50	1657.8	1390.9	121.47	1.5723	2.748
156.00	1658.0	1391.0	121.47	1.5705	2.749
156.50	1658.2	1391.2	121.45	1.5687	2.749
157.00	1658.4	1391.4	121.45	1.5669	2.750
157.50	1658.5	1391.5	121.46	1.5651	2.751
158.00	1658.7	1391.7	121.45	1.5633	2.751
158.50	1658.7	1391.8	121.46	1.5615	2.751
159.00	1658.9	1391.9	121.46	1.5597	2.752
159.50	1659.1	1392.1	121.46	1.5580	2.753
160.00	1659.2	1392.3	121.46	1.5562	2.753
160.50	1659.3	1392.4	121.47	1.5545	2.753
161.00	1659.5	1392.5	121.47	1.5528	2.754
161.50	1659.7	1392.7	121.47	1.5511	2.754
162.00	1659.7	1392.8	121.48	1.5494	2.755
162.50	1659.9	1392.9	121.46	1.5477	2.755
163.00	1660.1	1393.1	121.45	1.5460	2.756
163.50	1660.2	1393.2	121.46	1.5443	2.756
164.00	1660.4	1393.5	121.46	1.5427	2.757
164.50	1660.5	1393.5	121.47	1.5410	2.757
165.00	1660.6	1393.6	121.47	1.5394	2.758
165.50	1660.8	1393.9	121.47	1.5378	2.758
166.00	1660.9	1394.0	121.48	1.5361	2.759
166.50	1661.2	1394.2	121.48	1.5345	2.760
167.00	1661.2	1394.2	121.48	1.5329	2.760
167.50	1661.4	1394.5	121.47	1.5313	2.760
168.00	1661.4	1394.5	121.48	1.5298	2.760
168.50	1661.6	1394.6	121.48	1.5282	2.761
169.00	1661.8	1394.8	121.49	1.5266	2.761
169.50	1661.8	1394.8	121.49	1.5251	2.761
170.00	1662.2	1395.2	121.49	1.5235	2.763
170.50	1662.2	1395.2	121.47	1.5220	2.763
171.00	1662.3	1395.4	121.45	1.5205	2.763
171.50	1662.3	1395.4	121.46	1.5190	2.763
172.00	1662.6	1395.6	121.47	1.5174	2.764
172.50	1662.7	1395.7	121.47	1.5159	2.765
173.00	1662.9	1395.9	121.48	1.5145	2.765
173.50	1662.9	1396.0	121.48	1.5130	2.765
174.00	1663.0	1396.1	121.48	1.5115	2.766
174.50	1663.2	1396.2	121.47	1.5100	2.766
175.00	1663.4	1396.4	121.48	1.5086	2.767
175.50	1663.5	1396.6	121.48	1.5071	2.767
176.00	1663.6	1396.6	121.48	1.5057	2.768
176.50	1663.8	1396.8	121.48	1.5042	2.768
177.00	1663.9	1396.9	121.48	1.5028	2.768
177.50	1663.9	1397.0	121.49	1.5014	2.769
178.00	1664.1	1397.1	121.48	1.5000	2.769
178.50	1664.2	1397.2	121.49	1.4986	2.770
179.00	1664.4	1397.4	121.49	1.4972	2.770

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
179.50	1664.4	1397.5	121.49	1.4958	2.770
180.00	1664.5	1397.6	121.49	1.4944	2.771
180.50	1664.8	1397.8	121.50	1.4931	2.772
181.00	1664.9	1397.9	121.51	1.4917	2.772
181.50	1665.0	1398.0	121.50	1.4904	2.772
182.00	1665.1	1398.2	121.48	1.4890	2.773
182.50	1665.2	1398.2	121.47	1.4877	2.773
183.00	1665.4	1398.4	121.47	1.4863	2.773
183.50	1665.5	1398.5	121.49	1.4850	2.774
184.00	1665.5	1398.6	121.49	1.4837	2.774
184.50	1665.7	1398.7	121.49	1.4824	2.775
185.00	1665.9	1398.9	121.49	1.4811	2.775
185.50	1666.0	1399.0	121.49	1.4798	2.775
186.00	1666.1	1399.2	121.50	1.4785	2.776
186.50	1666.2	1399.2	121.50	1.4772	2.776
187.00	1666.3	1399.3	121.50	1.4759	2.777
187.50	1666.5	1399.5	121.51	1.4747	2.777
188.00	1666.5	1399.6	121.50	1.4734	2.777
188.50	1666.6	1399.7	121.50	1.4721	2.778
189.00	1666.7	1399.7	121.51	1.4709	2.778
189.50	1666.9	1399.9	121.51	1.4697	2.778
190.00	1667.0	1400.1	121.51	1.4684	2.779
190.50	1667.1	1400.2	121.51	1.4672	2.779
191.00	1667.2	1400.3	121.52	1.4660	2.780
191.50	1667.4	1400.4	121.51	1.4648	2.780
192.00	1667.5	1400.5	121.52	1.4635	2.780
192.50	1667.6	1400.6	121.51	1.4623	2.781
193.00	1667.6	1400.7	121.50	1.4611	2.781
193.50	1667.7	1400.8	121.51	1.4599	2.781
194.00	1667.9	1400.9	121.51	1.4588	2.782
194.50	1668.0	1401.0	121.51	1.4576	2.782
195.00	1668.1	1401.1	121.52	1.4564	2.782
195.50	1668.2	1401.3	121.52	1.4552	2.783
196.00	1668.4	1401.5	121.52	1.4541	2.784
196.50	1668.4	1401.5	121.53	1.4529	2.784
197.00	1668.5	1401.6	121.53	1.4518	2.784
197.50	1668.6	1401.7	121.53	1.4506	2.784
198.00	1668.7	1401.8	121.54	1.4495	2.785
198.50	1668.8	1401.8	121.54	1.4484	2.785
199.00	1669.0	1402.0	121.53	1.4472	2.785
199.50	1669.1	1402.1	121.52	1.4461	2.786
200.00	1669.1	1402.2	121.53	1.4450	2.786
200.50	1669.2	1402.3	121.53	1.4439	2.786
201.00	1669.4	1402.5	121.53	1.4428	2.787
201.50	1669.4	1402.5	121.53	1.4417	2.787
202.00	1669.5	1402.6	121.53	1.4406	2.787
202.50	1669.7	1402.8	121.54	1.4395	2.788
203.00	1669.7	1402.8	121.55	1.4384	2.788
203.50	1669.9	1402.9	121.53	1.4373	2.789
204.00	1670.0	1403.0	121.54	1.4363	2.789
204.50	1670.1	1403.1	121.55	1.4352	2.789

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98

TIME: 04:12:37  
 -----

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
205.00	1670.3	1403.3	121.56	1.4341	2.790
205.50	1670.3	1403.3	121.57	1.4331	2.790
206.00	1670.4	1403.4	121.57	1.4320	2.790
206.50	1670.5	1403.5	121.54	1.4310	2.791
207.00	1670.6	1403.6	121.53	1.4300	2.791
207.50	1670.8	1403.8	121.53	1.4289	2.792
208.00	1670.9	1403.9	121.54	1.4279	2.792
208.50	1670.9	1403.9	121.54	1.4269	2.792
209.00	1671.1	1404.2	121.55	1.4258	2.793
209.50	1671.1	1404.2	121.55	1.4248	2.793
210.00	1671.2	1404.2	121.56	1.4238	2.793
210.50	1671.3	1404.4	121.56	1.4228	2.793
211.00	1671.3	1404.4	121.55	1.4218	2.793
211.50	1671.5	1404.6	121.55	1.4208	2.794
212.00	1671.5	1404.6	121.55	1.4198	2.794
212.50	1671.6	1404.7	121.55	1.4188	2.794
213.00	1671.7	1404.7	121.56	1.4178	2.794
213.50	1671.8	1404.9	121.56	1.4169	2.795
214.00	1671.9	1405.0	121.56	1.4159	2.795
214.50	1672.0	1405.0	121.55	1.4149	2.796
215.00	1672.1	1405.1	121.56	1.4140	2.796
215.50	1672.3	1405.3	121.56	1.4130	2.796
216.00	1672.3	1405.3	121.57	1.4120	2.796
216.50	1672.4	1405.5	121.56	1.4111	2.797
217.00	1672.6	1405.7	121.57	1.4101	2.798
217.50	1672.6	1405.7	121.57	1.4092	2.798
218.00	1672.7	1405.7	121.57	1.4083	2.798
218.50	1672.7	1405.7	121.58	1.4073	2.798
219.00	1672.8	1405.9	121.57	1.4064	2.798
219.50	1672.9	1406.0	121.58	1.4055	2.799
220.00	1673.0	1406.0	121.58	1.4045	2.799
220.50	1673.1	1406.1	121.58	1.4036	2.799
221.00	1673.2	1406.2	121.58	1.4027	2.800
221.50	1673.4	1406.4	121.58	1.4018	2.800
222.00	1673.4	1406.4	121.58	1.4009	2.800
222.50	1673.5	1406.5	121.59	1.4000	2.800
223.00	1673.5	1406.5	121.58	1.3991	2.801
223.50	1673.7	1406.8	121.59	1.3982	2.801
224.00	1673.8	1406.8	121.59	1.3973	2.802
224.50	1673.8	1406.8	121.59	1.3964	2.802
225.00	1673.9	1407.0	121.60	1.3956	2.802
225.50	1674.0	1407.0	121.59	1.3947	2.802
226.00	1674.1	1407.1	121.60	1.3938	2.803
226.50	1674.2	1407.2	121.60	1.3929	2.803
227.00	1674.3	1407.3	121.60	1.3921	2.803
227.50	1674.4	1407.4	121.58	1.3912	2.803
228.00	1674.4	1407.5	121.58	1.3904	2.804
228.50	1674.5	1407.6	121.58	1.3895	2.804
229.00	1674.6	1407.6	121.59	1.3886	2.804
229.50	1674.7	1407.7	121.60	1.3878	2.805
230.00	1674.8	1407.8	121.60	1.3870	2.805

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10596 DST#3 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/30/98 TIME: 04:12:37

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	230.50	1674.9	1407.9	121.60	1.3861	2.805
	231.00	1674.9	1408.0	121.61	1.3853	2.805
	231.50	1674.9	1408.0	121.60	1.3844	2.805
	232.00	1675.1	1408.1	121.61	1.3836	2.806
	232.50	1675.3	1408.3	121.61	1.3828	2.807
	233.00	1675.3	1408.3	121.61	1.3820	2.807
	233.50	1675.4	1408.4	121.61	1.3812	2.807
	234.00	1675.6	1408.6	121.61	1.3803	2.808
	234.50	1675.7	1408.7	121.61	1.3795	2.808
	235.00	1675.7	1408.7	121.62	1.3787	2.808
	235.50	1675.7	1408.8	121.62	1.3779	2.808
	236.00	1675.8	1408.9	121.62	1.3771	2.808
	236.50	1675.8	1408.9	121.62	1.3763	2.808
	237.00	1675.9	1409.0	121.62	1.3755	2.809
	237.50	1675.9	1409.0	121.63	1.3747	2.809
	238.00	1676.1	1409.1	121.63	1.3739	2.809
	238.50	1676.1	1409.1	121.64	1.3732	2.809
	239.00	1676.3	1409.4	121.64	1.3724	2.810
	239.50	1676.3	1409.4	121.64	1.3716	2.810
	240.00	1676.4	1409.4	121.64	1.3708	2.810
	240.50	1676.4	1409.5	121.64	1.3701	2.810
	241.00	1676.5	1409.6	121.64	1.3693	2.811
	241.50	1676.6	1409.7	121.64	1.3685	2.811
	242.00	1676.8	1409.9	121.65	1.3678	2.812
	242.50	1676.8	1409.9	121.65	1.3670	2.812
	243.00	1676.9	1409.9	121.65	1.3663	2.812
	243.50	1677.0	1410.0	121.65	1.3655	2.812
	244.00	1677.0	1410.1	121.64	1.3648	2.812
	244.50	1677.2	1410.2	121.65	1.3640	2.813
	245.00	1677.2	1410.3	121.65	1.3633	2.813
*****	End Shut-in 2	245.50	1677.2	1410.3	121.66	2.813
*****	Final Hydro.	526.50	2171.4	0.0	121.67	

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10596

Well Name & No. <u>ALLEN A-1</u>	Test No. <u>3</u>	Date <u>1-30-98</u>
Company <u>WOOLSEY PETL. CORP.</u>	Zone Tested <u>SWAPS</u>	
Address <u>25 N. MARKET STREET, WICHITA, KS-67202</u>		Elevation <u>1719</u> KB <u>1706</u> GL
Co. Rep / Geo. <u>MICHAEL MAUNE</u>	Cont. <u>DUKE DRUG #7</u>	Est. Ft. of Pay <u>14</u> Por. <u>10</u> %
Location: Sec. <u>3</u>	Twp. <u>34<sup>S</sup></u>	Rge. <u>13<sup>W</sup></u> Co. <u>BARBER</u> State <u>KS</u>
No. of Copies <u>4</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) _____ Evaluation (Y, N) _____

Interval Tested <u>4564 - 4590'</u>	Initial Str Wt./Lbs. <u>13,000</u>	Unseated Str Wt./Lbs. <u>14,000</u>
Anchor Length _____	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>8,500</u>
Top Packer Depth <u>4559'</u>	Tool Weight <u>2100#</u>	
Bottom Packer Depth <u>4564'</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth <u>4590'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>240'</u>
Mud Wt. <u>89</u> LCM <u>4#</u> Vis. <u>52</u> WL <u>9.6 cc.</u>	Drill Pipe Size <u>4 1/2" xH</u>	Ft. Run <u>4301'</u>

Blow Description IF: Strong blow. Btm. of bucket in 70 secs.  
ISI: Weak blow. 1 - 3 1/2"  
FF: Strong blow. Btm. of bucket in 12 mins.  
FSI: Weak blow. 1 - 4", throughout.

Recovery — Total Feet <u>505 FLUZO</u>	GIP <u>2020'</u>	Ft. in DC <u>240</u>	Ft. in DP <u>265'</u>
Rec. <u>2</u> Feet Of <u>Clear Oil</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. <u>78</u> Feet Of <u>GCM</u>	<u>25</u> %gas	<u>22</u> %oil	%water _____ %mud <u>53</u>
Rec. <u>185</u> Feet Of <u>GCM w/ oil specs<sup>15</sup></u>	%gas _____	%oil _____	<u>25</u> %water <u>40</u> %mud
Rec. <u>240</u> Feet Of <u>Grey Salt Water</u>	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 123 °F Gravity 41 °API @ 68 °F Corrected Gravity 40.5 °API

RW 0.12 @ 66 °F Chlorides 68,000 ppm Recovery Chlorides 3,000 ppm System

(A) Initial Hydrostatic Mud <u>2179</u>   <u>2178</u> PSI	Recorder No. <u>10248</u>	T-Started <u>0412</u>
(B) First Initial Flow Pressure <u>69</u>   <u>67</u> PSI	(depth) <u>4587'</u>	T-Open <u>0624</u>
(C) First Final Flow Pressure <u>144</u>   <u>131</u> PSI	Recorder No. <u>2342</u>	T-Pulled <u>1257</u>
(D) Initial Shut-in Pressure <u>1653</u>   <u>1653</u> PSI	(depth) <u>4570'</u>	T-Out <u>1508</u>
(E) Second Initial Flow Pressure <u>150</u>   <u>145</u> PSI	Recorder No. <u>---</u>	
(F) Second Final Flow Pressure <u>261</u>   <u>267</u> PSI	(depth) <u>---</u>	
(G) Final Shut-in Pressure <u>1620</u>   <u>1677</u> PSI	Initial Opening <u>30</u>	Test <u>✓ 700</u>
(H) Final Hydrostatic Mud <u>2173</u>   <u>2171</u> PSI	Initial Shut-in <u>60</u>	Jars <u>✓ 200</u>
<u>AK-1</u>   <u>Alpine</u>	Final Flow <u>60</u>	Safety Joint <u>✓ 50</u>
	Final Shut-in <u>240</u>	Straddle _____
		Circ. Sub _____
		Sampler _____
		Extra Packer _____
		Elect. Rec. <u>✓ 150'</u>
		Other <u>✓ 3@ 30</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 Michael K. Maune

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl. Corp.

DATE 01-31-98

WELL NAME: Allen A-1

KB 1719.00 ft

TICKET NO: 10597 DST #4

LOCATION : 3-34s-13w CO Barber KS

GR 1706.00 ft

FORMATION: Mississippi

INTERVAL : 4721.00 To 4792.00 ft

TD 4792.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10248	10248	2342			PF Fr. 1204 to 1234 hr
SI 60	Range (Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1234 to 1334 hr
SF 60	Clock (hrs)	12 hr	12 hr	batt.			SF Fr. 1334 to 1434 hr
FS 240	Depth (ft )	4789.0	4789.0	4733.0	0.0	0.0	FS Fr. 1434 to 1834 hr

	Field	1	2	3	4	
A. Init Hydro	2316.0	2304.0	2352.0	0.0	0.0	T STARTED 1002 hr
B. First Flow	55.0	60.0	33.0	0.0	0.0	T ON BOTM 1159 hr
B1. Final Flow	59.0	52.0	35.0	0.0	0.0	T OPEN 1204 hr
C. In Shut-in	148.0	136.0	142.0	0.0	0.0	T PULLED 1836 hr
D. Init Flow	69.0	51.0	32.0	0.0	0.0	T OUT 2050 hr
E. Final Flow	73.0	58.0	43.0	0.0	0.0	
F. Fl Shut-in	450.0	453.0	441.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2292.0	2256.0	2250.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 64000.00 lbs
						Unseated Str Wt 64000.00 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 210.00 ft
						D.P. Length 4487.00 ft

RECOVERY

Tot Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP  
 20.00 ft of Drilling mud (slightly gas cut)  
 0.00 ft of  
 0.00 ft of Rw n/c ohms @ degrees F.  
 0.00 ft of EST FT. of PAY-----8  
 SALINITY 4000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Weak blow 1/2"-2"

Initial Shut-in:  
 No blow.

Final Flow:  
 Weak blow. 1 1/2 - 2" throughout.

Final Shut-in:  
 No blow.

SAMPLES:  
 SENT TO: Caraway/Liberal

Test Successful: Y

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	47.00 S/L
W.L.	9.20 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	118.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Mikeal Maune
Contr.	Duke Drlg.
Rig #	7
Unit #	
Pump T.	LCM 4 #/bl

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Allen A-1

LOCATION : 3-34s-13w CO Barber KS

TICKET No. 10597 D.S.T. No. 4 DATE 01-31-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

TOTAL PACKERS AND ANCHOR ..... 41

TOTAL TOOL ..... 68

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STANDS Single 1 Total 30

D.P. ANCHOR STANDS Single Total

TOTAL ASSEMBLY ..... 98

D.C. ABOVE TOOLS STANDS 3 Single 1 Total 210

D.P. ABOVE TOOLS STANDS 72 Single Total 4487

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4795

TOTAL DEPTH ..... 4792

TOTAL DRILL PIPE ABOVE K.B. .... 3

REMARKS:  
Comments:

See reports to WPC # 316 267 4383

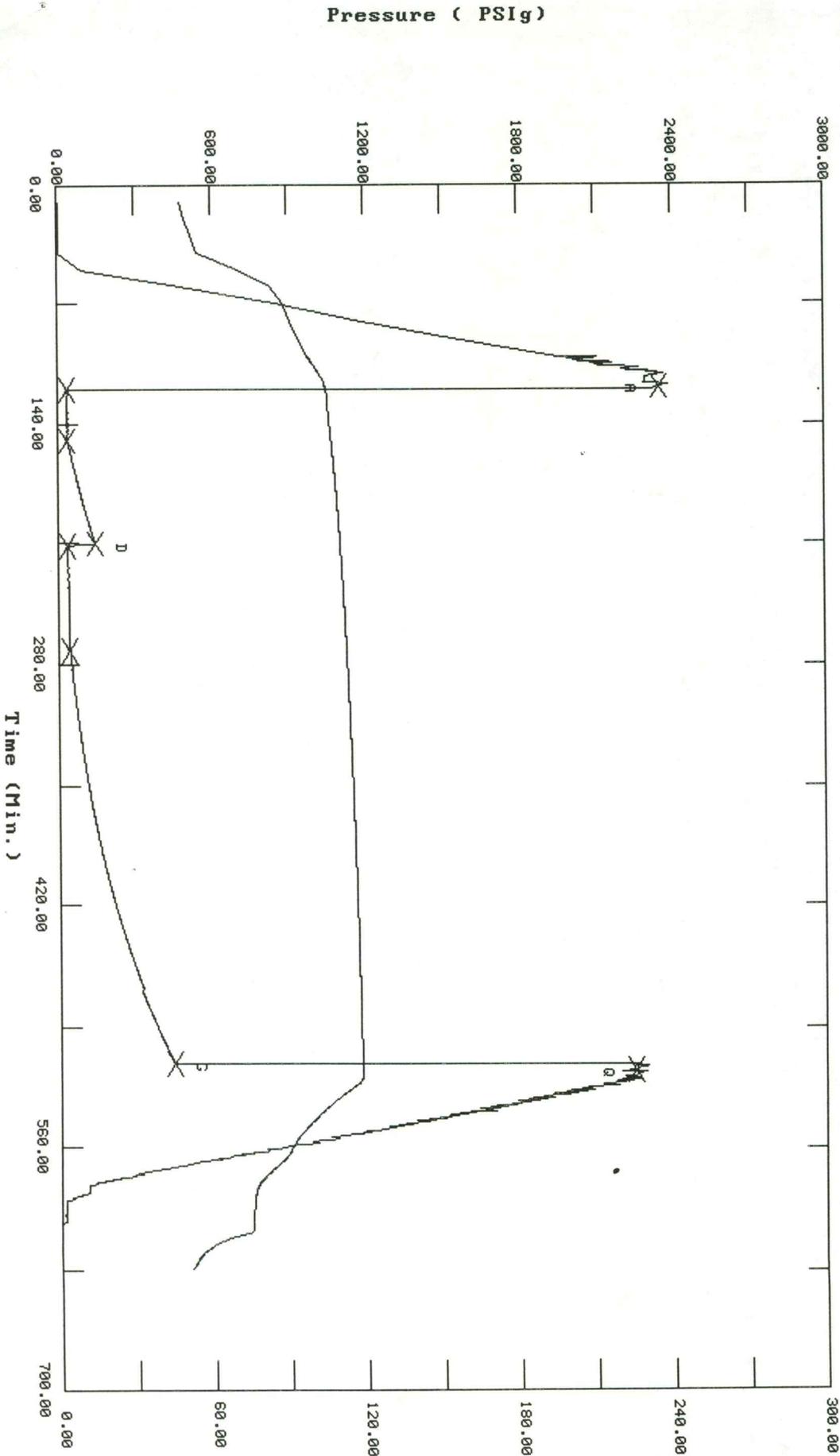
P.O. SUB	
C.O. SUB @ top of tool	4694
S.I. TOOL Sterling	4700
HMV Sterling	4705
JARS Bowen	4710
SAFETY JOINT Bowen	4712
PACKER Top	4716
PACKER Btm.	4721
DEPTH 4721	
STUBB 1 ft.	4722
ANCHOR	
4' perms + sub to	4727
Alpine rec. @	4733
1 Jt. D.Collar to	4757
T.C. DEPTH	
30 ft. perms and sub to	4787
AK-1 rec. @	4789
BULLNOSE 5 ft. perforated	4792
T.D.	

10597 DST#4 ALLEN A-1 WOOLSEY PETL. CORP.

# TEST HISTORY

Flag Points  
t(min.) P(PSig)

R:	0.00	2352.49
B:	0.00	32.81
C:	30.00	34.74
D:	61.00	142.25
E:	0.00	32.22
F:	60.50	42.54
G:	239.00	440.78
Q:	0.00	2250.35

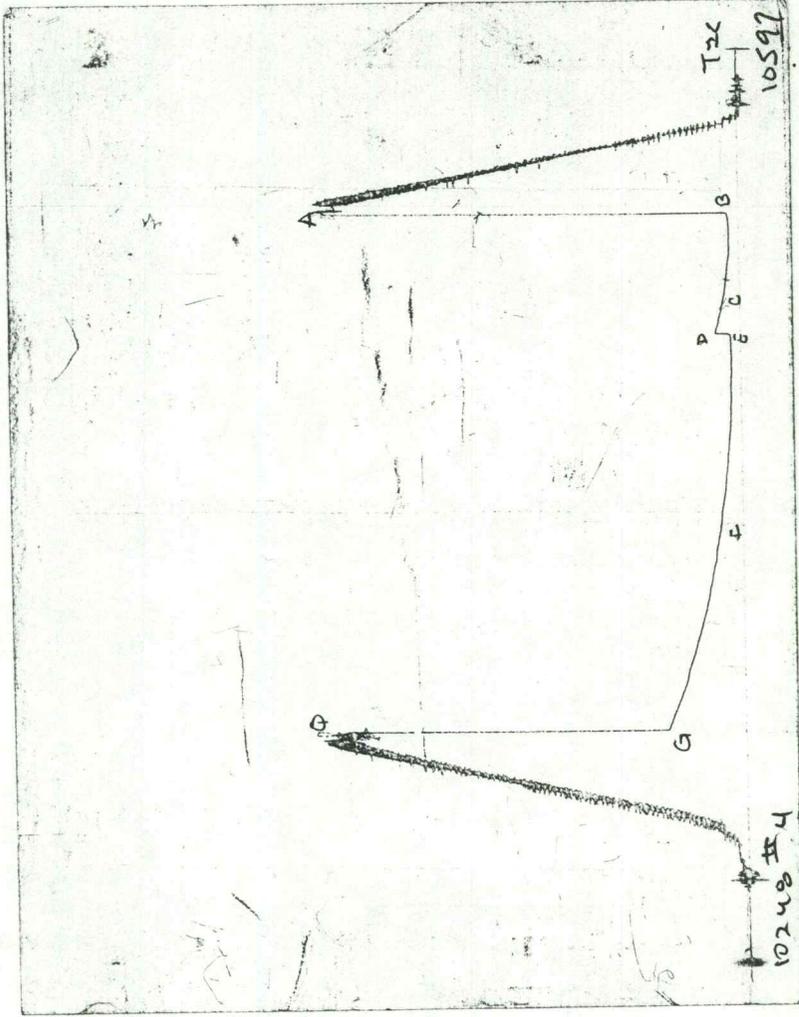


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING  
 TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.  
 DATE: 01/31/98 TIME: 10:02:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	118.00	2352.5	0.0	104.61		
***** Start Flow 1	0.00	32.8	0.0	104.94		
	0.50	34.2	1.4	105.00		
	1.00	35.5	2.7	105.06		
	1.50	36.3	3.5	105.11		
	2.00	36.8	4.0	105.16		
	2.50	37.3	4.4	105.20		
	3.00	33.3	0.5	105.25		
	3.50	34.4	1.6	105.27		
	4.00	33.1	0.3	105.31		
	4.50	36.4	3.6	105.34		
	5.00	34.7	1.9	105.36		
	5.50	33.8	1.0	105.39		
	6.00	33.1	0.3	105.41		
	6.50	35.7	2.9	105.44		
	7.00	35.7	2.9	105.46		
	7.50	33.3	0.5	105.49		
	8.00	35.4	2.6	105.52		
	8.50	34.7	1.8	105.55		
	9.00	34.0	1.2	105.57		
	9.50	35.6	2.8	105.60		
	10.00	34.5	1.7	105.63		
	10.50	36.2	3.4	105.66		
	11.00	34.1	1.3	105.68		
	11.50	35.7	2.9	105.71		
	12.00	34.7	1.9	105.74		
	12.50	36.2	3.4	105.77		
	13.00	37.7	4.9	105.81		
	13.50	35.5	2.7	105.84		
	14.00	34.1	1.3	105.87		
	14.50	35.3	2.5	105.90		
	15.00	36.4	3.6	105.94		
	15.50	34.3	1.5	105.97		
	16.00	35.7	2.9	106.00		
	16.50	36.8	3.9	106.04		
	17.00	34.8	2.0	106.07		
	17.50	36.0	3.2	106.10		
	18.00	33.9	1.1	106.13		
	18.50	35.2	2.3	106.17		
	19.00	36.4	3.6	106.20		
	19.50	37.4	4.6	106.24		
	20.00	35.7	2.9	106.27		
	20.50	36.8	3.9	106.31		
	21.00	37.8	5.0	106.34		
	21.50	34.0	1.2	106.37		
	22.00	35.1	2.3	106.40		
	22.50	36.2	3.4	106.45		
	23.00	37.4	4.6	106.48		
	23.50	38.1	5.3	106.52		
	24.00	33.6	0.8	106.55		
	24.50	34.6	1.8	106.58		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98 TIME: 10:02:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	35.7	2.9	106.61		
	25.50	36.8	3.9	106.66		
	26.00	37.6	4.8	106.69		
	26.50	34.6	1.8	106.72		
	27.00	35.6	2.8	106.76		
	27.50	36.6	3.8	106.79		
	28.00	35.7	2.9	106.83		
	28.50	33.6	0.8	106.86		
	29.00	34.6	1.8	106.89		
	29.50	33.8	1.0	106.93		
*****	End Flow 1	30.00	34.7	1.9	106.96	
*****	Start Shutin 1	0.00	34.7	0.0	106.96	0.0000
	0.50	35.7	0.9	106.99	61.0000	0.001
	1.00	36.3	1.6	107.03	31.0000	0.001
	1.50	37.2	2.4	107.06	21.0000	0.001
	2.00	38.0	3.3	107.09	16.0000	0.001
	2.50	38.7	3.9	107.13	13.0000	0.001
	3.00	39.3	4.5	107.16	11.0000	0.002
	3.50	40.1	5.4	107.19	9.5714	0.002
	4.00	41.1	6.4	107.23	8.5000	0.002
	4.50	41.9	7.1	107.26	7.6667	0.002
	5.00	42.8	8.1	107.30	7.0000	0.002
	5.50	43.4	8.6	107.33	6.4545	0.002
	6.00	44.2	9.5	107.36	6.0000	0.002
	6.50	44.9	10.2	107.39	5.6154	0.002
	7.00	45.6	10.9	107.43	5.2857	0.002
	7.50	46.6	11.8	107.46	5.0000	0.002
	8.00	47.4	12.7	107.50	4.7500	0.002
	8.50	47.9	13.2	107.53	4.5294	0.002
	9.00	48.7	13.9	107.56	4.3333	0.002
	9.50	49.4	14.7	107.59	4.1579	0.002
	10.00	50.2	15.4	107.62	4.0000	0.003
	10.50	51.0	16.3	107.65	3.8571	0.003
	11.00	51.9	17.1	107.69	3.7273	0.003
	11.50	52.6	17.9	107.72	3.6087	0.003
	12.00	53.4	18.6	107.74	3.5000	0.003
	12.50	54.2	19.5	107.78	3.4000	0.003
	13.00	55.0	20.3	107.81	3.3077	0.003
	13.50	55.8	21.1	107.84	3.2222	0.003
	14.00	56.7	22.0	107.87	3.1429	0.003
	14.50	57.5	22.7	107.90	3.0690	0.003
	15.00	58.3	23.6	107.93	3.0000	0.003
	15.50	59.1	24.3	107.96	2.9355	0.003
	16.00	59.9	25.2	107.99	2.8750	0.004
	16.50	60.7	25.9	108.02	2.8182	0.004
	17.00	61.5	26.8	108.05	2.7647	0.004
	17.50	62.3	27.5	108.08	2.7143	0.004
	18.00	62.9	28.2	108.11	2.6667	0.004
	18.50	63.8	29.0	108.14	2.6216	0.004
	19.00	64.5	29.8	108.17	2.5789	0.004
	19.50	65.4	30.6	108.20	2.5385	0.004

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27

Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.00	66.1	31.4		108.23	2.5000	0.004
20.50	66.9	32.1		108.26	2.4634	0.004
21.00	67.7	33.0		108.28	2.4286	0.005
21.50	68.5	33.7		108.32	2.3953	0.005
22.00	69.3	34.6		108.34	2.3636	0.005
22.50	70.1	35.3		108.37	2.3333	0.005
23.00	70.9	36.2		108.41	2.3043	0.005
23.50	71.7	37.0		108.43	2.2766	0.005
24.00	72.5	37.8		108.45	2.2500	0.005
24.50	73.4	38.7		108.48	2.2245	0.005
25.00	74.2	39.4		108.52	2.2000	0.006
25.50	75.0	40.3		108.54	2.1765	0.006
26.00	75.8	41.0		108.57	2.1538	0.006
26.50	76.7	42.0		108.59	2.1321	0.006
27.00	77.5	42.8		108.63	2.1111	0.006
27.50	78.3	43.6		108.65	2.0909	0.006
28.00	79.1	44.4		108.68	2.0714	0.006
28.50	80.1	45.3		108.71	2.0526	0.006
29.00	80.9	46.2		108.74	2.0345	0.007
29.50	81.7	47.0		108.76	2.0169	0.007
30.00	82.6	47.8		108.79	2.0000	0.007
30.50	83.4	48.7		108.82	1.9836	0.007
31.00	84.3	49.5		108.85	1.9677	0.007
31.50	85.1	50.4		108.87	1.9524	0.007
32.00	86.0	51.3		108.90	1.9375	0.007
32.50	86.9	52.1		108.92	1.9231	0.008
33.00	87.7	53.0		108.95	1.9091	0.008
33.50	88.5	53.8		108.98	1.8955	0.008
34.00	89.4	54.6		109.01	1.8824	0.008
34.50	90.3	55.6		109.03	1.8696	0.008
35.00	91.2	56.5		109.06	1.8571	0.008
35.50	92.1	57.4		109.08	1.8451	0.008
36.00	93.0	58.2		109.10	1.8333	0.009
36.50	93.8	59.1		109.14	1.8219	0.009
37.00	94.8	60.1		109.15	1.8108	0.009
37.50	95.7	60.9		109.18	1.8000	0.009
38.00	96.6	61.9		109.21	1.7895	0.009
38.50	97.4	62.7		109.24	1.7792	0.009
39.00	98.3	63.5		109.26	1.7692	0.01
39.50	99.2	64.5		109.29	1.7595	0.01
40.00	100.1	65.4		109.31	1.7500	0.010
40.50	101.0	66.3		109.34	1.7407	0.010
41.00	102.0	67.2		109.36	1.7317	0.010
41.50	102.9	68.1		109.38	1.7229	0.011
42.00	103.9	69.2		109.41	1.7143	0.011
42.50	104.7	70.0		109.44	1.7059	0.011
43.00	105.7	70.9		109.46	1.6977	0.011
43.50	106.6	71.8		109.49	1.6897	0.011
44.00	107.6	72.8		109.51	1.6818	0.012
44.50	108.5	73.8		109.53	1.6742	0.012
45.00	109.3	74.6		109.56	1.6667	0.012

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98 TIME: 10:02:27

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
	45.50	110.4	75.6	109.58	1.6593	0.012	
	46.00	111.4	76.6	109.61	1.6522	0.012	
	46.50	112.3	77.5	109.63	1.6452	0.013	
	47.00	113.3	78.6	109.66	1.6383	0.013	
	47.50	114.2	79.5	109.68	1.6316	0.013	
	48.00	115.1	80.4	109.71	1.6250	0.013	
	48.50	116.2	81.5	109.73	1.6186	0.014	
	49.00	117.1	82.3	109.75	1.6122	0.014	
	49.50	118.1	83.3	109.78	1.6061	0.014	
	50.00	119.2	84.4	109.79	1.6000	0.014	
	50.50	120.1	85.4	109.83	1.5941	0.014	
	51.00	121.1	86.4	109.85	1.5882	0.015	
	51.50	122.0	87.3	109.88	1.5825	0.015	
	52.00	123.0	88.3	109.90	1.5769	0.015	
	52.50	124.1	89.4	109.92	1.5714	0.015	
	53.00	125.1	90.4	109.94	1.5660	0.016	
	53.50	126.1	91.4	109.96	1.5607	0.016	
	54.00	127.2	92.5	109.99	1.5556	0.016	
	54.50	128.2	93.5	110.01	1.5505	0.016	
	55.00	129.3	94.6	110.04	1.5455	0.017	
	55.50	130.4	95.7	110.06	1.5405	0.017	
	56.00	131.3	96.6	110.08	1.5357	0.017	
	56.50	132.4	97.7	110.10	1.5310	0.018	
	57.00	133.5	98.8	110.13	1.5263	0.018	
	57.50	134.6	99.9	110.15	1.5217	0.018	
	58.00	135.7	101.0	110.17	1.5172	0.018	
	58.50	136.8	102.1	110.19	1.5128	0.019	
	59.00	137.9	103.1	110.22	1.5085	0.019	
	59.50	139.1	104.3	110.24	1.5042	0.019	
	60.00	140.1	105.3	110.27	1.5000	0.020	
	60.50	141.2	106.5	110.29	1.4959	0.020	
*****	End Shut-in 1	61.00	142.2	107.5	110.32	1.4918	0.020
*****	Start Flow 2	0.00	32.2	0.0	110.34		
		0.50	33.0	0.8	110.37		
		1.00	33.9	1.7	110.39		
		1.50	34.6	2.3	110.41		
		2.00	35.0	2.8	110.42		
		2.50	33.8	1.6	110.44		
		3.00	34.5	2.3	110.47		
		3.50	34.0	1.8	110.49		
		4.00	34.3	2.1	110.52		
		4.50	34.9	2.7	110.52		
		5.00	35.5	3.3	110.55		
		5.50	35.8	3.6	110.58		
		6.00	34.2	1.9	110.59		
		6.50	34.5	2.3	110.61		
		7.00	35.1	2.9	110.64		
		7.50	35.6	3.4	110.66		
		8.00	36.0	3.8	110.68		
		8.50	36.5	4.3	110.70		
		9.00	35.2	2.9	110.72		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
9.50	35.6	3.4	110.75		
10.00	36.1	3.9	110.77		
10.50	35.7	3.5	110.80		
11.00	35.3	3.1	110.81		
11.50	35.8	3.6	110.84		
12.00	36.3	4.1	110.86		
12.50	36.7	4.4	110.88		
13.00	37.0	4.8	110.90		
13.50	35.8	3.6	110.92		
14.00	36.2	4.0	110.94		
14.50	35.5	3.3	110.96		
15.00	35.9	3.7	110.98		
15.50	36.2	4.0	111.01		
16.00	36.8	4.5	111.01		
16.50	37.0	4.8	111.05		
17.00	36.8	4.6	111.07		
17.50	37.1	4.9	111.09		
18.00	37.5	5.3	111.11		
18.50	37.8	5.6	111.13		
19.00	35.7	3.4	111.15		
19.50	36.1	3.9	111.16		
20.00	36.5	4.3	111.19		
20.50	37.0	4.8	111.22		
21.00	37.4	5.2	111.23		
21.50	37.8	5.6	111.26		
22.00	38.3	6.0	111.27		
22.50	38.6	6.4	111.29		
23.00	38.9	6.7	111.31		
23.50	39.2	7.0	111.33		
24.00	36.6	4.4	111.38		
24.50	36.8	4.5	111.37		
25.00	37.2	5.0	111.40		
25.50	37.7	5.5	111.41		
26.00	38.1	5.9	111.45		
26.50	38.5	6.3	111.45		
27.00	38.7	6.5	111.50		
27.50	37.8	5.6	111.48		
28.00	38.1	5.9	111.51		
28.50	38.6	6.4	111.53		
29.00	39.0	6.8	111.55		
29.50	39.3	7.0	111.57		
30.00	39.7	7.5	111.59		
30.50	39.4	7.1	111.61		
31.00	39.5	7.3	111.62		
31.50	39.9	7.6	111.64		
32.00	40.0	7.8	111.66		
32.50	40.4	8.2	111.68		
33.00	40.4	8.1	111.70		
33.50	39.8	7.6	111.72		
34.00	40.2	8.0	111.74		
34.50	40.3	8.1	111.76		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98 TIME: 10:02:27

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
35.00	40.4	8.2	111.78		
35.50	40.9	8.6	111.79		
36.00	40.9	8.7	111.82		
36.50	41.1	8.9	111.83		
37.00	41.5	9.3	111.86		
37.50	39.4	7.1	111.87		
38.00	39.8	7.6	111.89		
38.50	40.1	7.9	111.91		
39.00	40.5	8.3	111.92		
39.50	40.9	8.7	111.95		
40.00	41.3	9.1	111.96		
40.50	41.6	9.4	111.99		
41.00	42.0	9.7	112.01		
41.50	42.3	10.1	112.03		
42.00	41.4	9.1	112.05		
42.50	41.6	9.4	112.06		
43.00	41.6	9.4	112.07		
43.50	41.9	9.7	112.07		
44.00	41.5	9.2	112.10		
44.50	40.5	8.3	112.11		
45.00	40.9	8.7	112.14		
45.50	41.4	9.1	112.15		
46.00	41.6	9.4	112.17		
46.50	41.9	9.7	112.19		
47.00	42.1	9.9	112.21		
47.50	42.3	10.1	112.23		
48.00	40.9	8.6	112.24		
48.50	41.3	9.1	112.26		
49.00	41.5	9.2	112.28		
49.50	41.7	9.5	112.30		
50.00	42.0	9.7	112.32		
50.50	42.3	10.1	112.33		
51.00	40.4	8.1	112.35		
51.50	40.4	8.2	112.36		
52.00	40.7	8.5	112.38		
52.50	41.0	8.8	112.39		
53.00	40.4	8.1	112.42		
53.50	40.6	8.4	112.43		
54.00	41.0	8.8	112.45		
54.50	41.3	9.1	112.46		
55.00	41.6	9.4	112.48		
55.50	42.0	9.7	112.51		
56.00	42.2	10	112.51		
56.50	41.9	9.7	112.54		
57.00	41.9	9.7	112.56		
57.50	42.1	9.9	112.57		
58.00	42.5	10.2	112.59		
58.50	41.5	9.2	112.60		
59.00	41.7	9.5	112.62		
59.50	42.0	9.7	112.63		
60.00	42.3	10.1	112.65		

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27  
 -----

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Flow 2	60.50	42.5	10.3	112.67		
***** Start Shutin 2	0.00	42.5	0.0	112.67	0.0000	0.002
	0.50	43.0	0.4	112.69	182.0000	0.002
	1.00	43.3	0.8	112.70	91.5000	0.002
	1.50	43.7	1.2	112.72	61.3333	0.002
	2.00	44.1	1.6	112.74	46.2500	0.002
	2.50	44.6	2.0	112.75	37.2000	0.002
	3.00	44.9	2.3	112.77	31.1667	0.002
	3.50	45.2	2.7	112.79	26.8571	0.002
	4.00	45.6	3.1	112.80	23.6250	0.002
	4.50	46.0	3.4	112.82	21.1111	0.002
	5.00	46.3	3.8	112.84	19.1000	0.002
	5.50	46.7	4.2	112.85	17.4545	0.002
	6.00	47.2	4.6	112.87	16.0833	0.002
	6.50	47.5	5.0	112.87	14.9231	0.002
	7.00	47.8	5.3	112.90	13.9286	0.002
	7.50	48.2	5.7	112.92	13.0667	0.002
	8.00	48.6	6.0	112.93	12.3125	0.002
	8.50	49.0	6.5	112.95	11.6471	0.002
	9.00	49.4	6.9	112.97	11.0556	0.002
	9.50	49.8	7.2	112.98	10.5263	0.002
	10.00	50.2	7.6	113.00	10.0500	0.003
	10.50	48.6	6.0	113.02	9.6190	0.002
	11.00	49.0	6.5	113.03	9.2273	0.002
	11.50	49.4	6.9	113.05	8.8696	0.002
	12.00	49.8	7.2	113.06	8.5417	0.002
	12.50	50.1	7.6	113.07	8.2400	0.003
	13.00	50.6	8.1	113.09	7.9615	0.003
	13.50	50.9	8.4	113.10	7.7037	0.003
	14.00	51.4	8.8	113.11	7.4643	0.003
	14.50	51.8	9.2	113.14	7.2414	0.003
	15.00	52.2	9.7	113.15	7.0333	0.003
	15.50	52.5	10	113.17	6.8387	0.003
	16.00	52.9	10.4	113.18	6.6562	0.003
	16.50	53.4	10.8	113.20	6.4848	0.003
	17.00	53.7	11.2	113.22	6.3235	0.003
	17.50	54.1	11.6	113.23	6.1714	0.003
	18.00	54.5	12.0	113.25	6.0278	0.003
	18.50	55.0	12.4	113.26	5.8919	0.003
	19.00	55.3	12.8	113.28	5.7632	0.003
	19.50	55.8	13.3	113.29	5.6410	0.003
	20.00	56.2	13.7	113.31	5.5250	0.003
	20.50	56.6	14.0	113.32	5.4146	0.003
	21.00	57.1	14.5	113.34	5.3095	0.003
	21.50	57.5	14.9	113.36	5.2093	0.003
	22.00	57.8	15.3	113.37	5.1136	0.003
	22.50	58.2	15.7	113.40	5.0222	0.003
	23.00	58.6	16.0	113.40	4.9348	0.003
	23.50	59.1	16.5	113.43	4.8511	0.003
	24.00	59.5	17.0	113.43	4.7708	0.004
	24.50	59.8	17.3	113.45	4.6939	0.004

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98 TIME: 10:02:27

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
25.00	60.3	17.7	113.46	4.6200	0.004
25.50	60.7	18.1	113.48	4.5490	0.004
26.00	61.0	18.5	113.49	4.4808	0.004
26.50	61.4	18.9	113.51	4.4151	0.004
27.00	61.9	19.4	113.53	4.3519	0.004
27.50	62.3	19.7	113.54	4.2909	0.004
28.00	62.7	20.1	113.55	4.2321	0.004
28.50	63.1	20.6	113.57	4.1754	0.004
29.00	63.5	21.0	113.58	4.1207	0.004
29.50	63.9	21.4	113.60	4.0678	0.004
30.00	64.4	21.8	113.61	4.0167	0.004
30.50	64.8	22.2	113.63	3.9672	0.004
31.00	65.2	22.7	113.64	3.9194	0.004
31.50	65.6	23.1	113.66	3.8730	0.004
32.00	66.0	23.5	113.67	3.8281	0.004
32.50	66.5	23.9	113.68	3.7846	0.004
33.00	67.0	24.4	113.70	3.7424	0.004
33.50	67.4	24.8	113.72	3.7015	0.005
34.00	67.7	25.2	113.74	3.6618	0.005
34.50	68.3	25.8	113.75	3.6232	0.005
35.00	68.6	26.1	113.76	3.5857	0.005
35.50	69.1	26.6	113.78	3.5493	0.005
36.00	69.6	27.0	113.79	3.5139	0.005
36.50	70.0	27.4	113.81	3.4795	0.005
37.00	70.4	27.9	113.82	3.4459	0.005
37.50	70.8	28.3	113.83	3.4133	0.005
38.00	71.2	28.6	113.85	3.3816	0.005
38.50	71.7	29.1	113.86	3.3506	0.005
39.00	72.1	29.5	113.87	3.3205	0.005
39.50	72.5	30.0	113.89	3.2911	0.005
40.00	73.0	30.5	113.90	3.2625	0.005
40.50	73.4	30.9	113.92	3.2346	0.005
41.00	73.9	31.4	113.92	3.2073	0.005
41.50	74.4	31.8	113.95	3.1807	0.006
42.00	74.8	32.2	113.96	3.1548	0.006
42.50	75.3	32.7	113.97	3.1294	0.006
43.00	75.7	33.2	113.99	3.1047	0.006
43.50	76.1	33.6	114.00	3.0805	0.006
44.00	76.5	34.0	114.02	3.0568	0.006
44.50	77.0	34.5	114.03	3.0337	0.006
45.00	77.5	34.9	114.05	3.0111	0.006
45.50	77.9	35.3	114.06	2.9890	0.006
46.00	78.3	35.8	114.07	2.9674	0.006
46.50	78.8	36.3	114.09	2.9462	0.006
47.00	79.3	36.8	114.11	2.9255	0.006
47.50	79.7	37.2	114.11	2.9053	0.006
48.00	80.2	37.7	114.13	2.8854	0.006
48.50	80.6	38.1	114.14	2.8660	0.007
49.00	81.1	38.5	114.16	2.8469	0.007
49.50	81.6	39.0	114.17	2.8283	0.007
50.00	82.2	39.6	114.18	2.8100	0.007

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
50.50	82.5	39.9	114.20	2.7921	0.007
51.00	83.0	40.5	114.21	2.7745	0.007
51.50	83.5	41.0	114.23	2.7573	0.007
52.00	83.9	41.4	114.23	2.7404	0.007
52.50	84.4	41.9	114.25	2.7238	0.007
53.00	84.9	42.4	114.26	2.7075	0.007
53.50	85.4	42.9	114.28	2.6916	0.007
54.00	85.9	43.4	114.29	2.6759	0.007
54.50	86.4	43.8	114.31	2.6606	0.007
55.00	86.9	44.3	114.33	2.6455	0.008
55.50	87.4	44.8	114.33	2.6306	0.008
56.00	87.9	45.3	114.35	2.6161	0.008
56.50	88.3	45.7	114.36	2.6018	0.008
57.00	88.8	46.2	114.38	2.5877	0.008
57.50	89.3	46.7	114.39	2.5739	0.008
58.00	89.8	47.3	114.40	2.5603	0.008
58.50	90.2	47.7	114.41	2.5470	0.008
59.00	90.7	48.2	114.43	2.5339	0.008
59.50	91.3	48.8	114.45	2.5210	0.008
60.00	91.7	49.2	114.45	2.5083	0.008
60.50	92.2	49.7	114.47	2.4959	0.009
61.00	92.8	50.3	114.48	2.4836	0.009
61.50	93.3	50.8	114.50	2.4715	0.009
62.00	93.8	51.3	114.51	2.4597	0.009
62.50	94.2	51.7	114.52	2.4480	0.009
63.00	94.8	52.3	114.53	2.4365	0.009
63.50	95.3	52.8	114.54	2.4252	0.009
64.00	95.8	53.3	114.56	2.4141	0.009
64.50	96.3	53.8	114.57	2.4031	0.009
65.00	96.8	54.2	114.59	2.3923	0.009
65.50	97.3	54.8	114.60	2.3817	0.009
66.00	97.9	55.3	114.61	2.3712	0.01
66.50	98.4	55.8	114.62	2.3609	0.01
67.00	98.9	56.4	114.64	2.3507	0.01
67.50	99.4	56.9	114.65	2.3407	0.01
68.00	99.9	57.4	114.66	2.3309	0.01
68.50	100.5	58.0	114.67	2.3212	0.010
69.00	101.0	58.5	114.69	2.3116	0.010
69.50	101.5	59.0	114.70	2.3022	0.010
70.00	102.1	59.6	114.72	2.2929	0.010
70.50	102.6	60.1	114.73	2.2837	0.011
71.00	103.1	60.6	114.74	2.2746	0.011
71.50	103.7	61.2	114.76	2.2657	0.011
72.00	104.2	61.7	114.77	2.2569	0.011
72.50	104.9	62.4	114.77	2.2483	0.011
73.00	105.4	62.9	114.79	2.2397	0.011
73.50	105.9	63.4	114.81	2.2313	0.011
74.00	106.5	64.0	114.82	2.2230	0.011
74.50	107.1	64.5	114.83	2.2148	0.011
75.00	107.5	65.0	114.84	2.2067	0.012
75.50	108.2	65.6	114.86	2.1987	0.012

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98 TIME: 10:02:27

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
76.00	108.7	66.1	114.87	2.1908	0.012
76.50	109.3	66.7	114.88	2.1830	0.012
77.00	109.8	67.2	114.89	2.1753	0.012
77.50	110.3	67.7	114.90	2.1677	0.012
78.00	110.9	68.3	114.92	2.1603	0.012
78.50	111.4	68.8	114.93	2.1529	0.012
79.00	112.0	69.4	114.94	2.1456	0.013
79.50	112.5	70.0	114.95	2.1384	0.013
80.00	113.1	70.6	114.97	2.1313	0.013
80.50	113.6	71.1	114.97	2.1242	0.013
81.00	114.3	71.8	114.99	2.1173	0.013
81.50	114.8	72.3	115.01	2.1104	0.013
82.00	115.4	72.8	115.02	2.1037	0.013
82.50	116.1	73.5	115.03	2.0970	0.013
83.00	116.6	74.0	115.04	2.0904	0.014
83.50	117.2	74.6	115.07	2.0838	0.014
84.00	117.7	75.1	115.06	2.0774	0.014
84.50	118.2	75.7	115.07	2.0710	0.014
85.00	118.8	76.3	115.09	2.0647	0.014
85.50	119.5	77.0	115.10	2.0585	0.014
86.00	120.0	77.5	115.11	2.0523	0.014
86.50	120.7	78.1	115.12	2.0462	0.015
87.00	121.2	78.6	115.13	2.0402	0.015
87.50	121.8	79.2	115.15	2.0343	0.015
88.00	122.4	79.8	115.16	2.0284	0.015
88.50	123.0	80.5	115.17	2.0226	0.015
89.00	123.6	81.1	115.19	2.0169	0.015
89.50	124.3	81.7	115.20	2.0112	0.015
90.00	125.0	82.4	115.21	2.0056	0.016
90.50	125.5	83.0	115.22	2.0000	0.016
91.00	126.1	83.6	115.22	1.9945	0.016
91.50	126.7	84.2	115.24	1.9891	0.016
92.00	127.3	84.8	115.26	1.9837	0.016
92.50	127.9	85.4	115.26	1.9784	0.016
93.00	128.6	86.0	115.28	1.9731	0.017
93.50	129.2	86.7	115.29	1.9679	0.017
94.00	129.8	87.3	115.30	1.9628	0.017
94.50	130.5	88.0	115.31	1.9577	0.017
95.00	131.1	88.5	115.32	1.9526	0.017
95.50	131.7	89.1	115.34	1.9476	0.017
96.00	132.4	89.9	115.35	1.9427	0.018
96.50	133.0	90.5	115.35	1.9378	0.018
97.00	133.7	91.1	115.37	1.9330	0.018
97.50	134.4	91.8	115.38	1.9282	0.018
98.00	134.9	92.4	115.39	1.9235	0.018
98.50	135.5	93.0	115.40	1.9188	0.018
99.00	136.2	93.7	115.41	1.9141	0.019
99.50	136.9	94.3	115.43	1.9095	0.019
100.00	137.5	94.9	115.44	1.9050	0.019
100.50	138.1	95.6	115.45	1.9005	0.019
101.00	138.8	96.3	115.47	1.8960	0.019

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
101.50	139.4	96.9	115.48	1.8916	0.019
102.00	140.2	97.6	115.49	1.8873	0.020
102.50	140.7	98.2	115.50	1.8829	0.020
103.00	141.4	98.9	115.52	1.8786	0.020
103.50	142.2	99.6	115.53	1.8744	0.020
104.00	142.8	100.3	115.54	1.8702	0.020
104.50	143.5	101.0	115.55	1.8660	0.021
105.00	144.2	101.6	115.56	1.8619	0.021
105.50	144.9	102.3	115.57	1.8578	0.021
106.00	145.5	103.0	115.58	1.8538	0.021
106.50	146.2	103.7	115.59	1.8498	0.021
107.00	146.9	104.3	115.60	1.8458	0.022
107.50	147.6	105.1	115.61	1.8419	0.022
108.00	148.4	105.8	115.63	1.8380	0.022
108.50	149.0	106.5	115.64	1.8341	0.022
109.00	149.8	107.3	115.65	1.8303	0.022
109.50	150.5	107.9	115.66	1.8265	0.023
110.00	151.1	108.6	115.67	1.8227	0.023
110.50	151.8	109.3	115.68	1.8190	0.023
111.00	152.6	110.0	115.70	1.8153	0.023
111.50	153.3	110.8	115.70	1.8117	0.024
112.00	154.0	111.5	115.72	1.8080	0.024
112.50	154.8	112.2	115.73	1.8044	0.024
113.00	155.4	112.9	115.74	1.8009	0.024
113.50	156.2	113.6	115.76	1.7974	0.024
114.00	156.9	114.4	115.76	1.7939	0.025
114.50	157.7	115.1	115.77	1.7904	0.025
115.00	158.4	115.8	115.79	1.7870	0.025
115.50	159.1	116.6	115.79	1.7835	0.025
116.00	159.9	117.3	115.80	1.7802	0.026
116.50	160.6	118.1	115.81	1.7768	0.026
117.00	161.3	118.8	115.82	1.7735	0.026
117.50	162.1	119.6	115.83	1.7702	0.026
118.00	162.8	120.3	115.84	1.7669	0.027
118.50	163.6	121.0	115.86	1.7637	0.027
119.00	164.2	121.7	115.86	1.7605	0.027
119.50	165.0	122.5	115.87	1.7573	0.027
120.00	165.7	123.2	115.88	1.7542	0.027
120.50	166.6	124.0	115.90	1.7510	0.028
121.00	167.3	124.7	115.91	1.7479	0.028
121.50	168.1	125.6	115.91	1.7449	0.028
122.00	168.9	126.3	115.93	1.7418	0.029
122.50	169.7	127.2	115.93	1.7388	0.029
123.00	170.4	127.9	115.95	1.7358	0.029
123.50	171.2	128.7	115.97	1.7328	0.029
124.00	172.0	129.4	115.97	1.7298	0.030
124.50	172.7	130.2	115.97	1.7269	0.030
125.00	173.6	131.0	115.99	1.7240	0.030
125.50	174.4	131.9	116.00	1.7211	0.030
126.00	175.2	132.7	116.02	1.7183	0.031
126.50	176.0	133.4	116.02	1.7154	0.031

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98 TIME: 10:02:27

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
127.00	176.7	134.2	116.04	1.7126	0.031
127.50	177.6	135.0	116.04	1.7098	0.032
128.00	178.4	135.9	116.06	1.7070	0.032
128.50	179.2	136.6	116.07	1.7043	0.032
129.00	180.0	137.5	116.08	1.7016	0.032
129.50	180.9	138.4	116.09	1.6988	0.033
130.00	181.7	139.2	116.10	1.6962	0.033
130.50	182.5	139.9	116.11	1.6935	0.033
131.00	183.3	140.7	116.12	1.6908	0.034
131.50	184.1	141.6	116.13	1.6882	0.034
132.00	185.1	142.5	116.14	1.6856	0.034
132.50	185.9	143.3	116.15	1.6830	0.035
133.00	186.7	144.2	116.16	1.6805	0.035
133.50	187.6	145.0	116.17	1.6779	0.035
134.00	188.4	145.9	116.18	1.6754	0.035
134.50	189.2	146.7	116.20	1.6729	0.036
135.00	190.1	147.5	116.20	1.6704	0.036
135.50	191.0	148.5	116.21	1.6679	0.036
136.00	191.9	149.3	116.22	1.6654	0.037
136.50	192.7	150.1	116.24	1.6630	0.037
137.00	193.6	151.1	116.24	1.6606	0.037
137.50	194.5	151.9	116.25	1.6582	0.038
138.00	195.4	152.8	116.26	1.6558	0.038
138.50	196.3	153.8	116.28	1.6534	0.039
139.00	197.1	154.6	116.29	1.6511	0.039
139.50	198.1	155.5	116.30	1.6487	0.039
140.00	198.9	156.4	116.30	1.6464	0.040
140.50	199.8	157.3	116.31	1.6441	0.040
141.00	200.8	158.3	116.32	1.6418	0.040
141.50	201.7	159.1	116.33	1.6396	0.041
142.00	202.6	160.1	116.34	1.6373	0.041
142.50	203.5	161.0	116.35	1.6351	0.041
143.00	204.4	161.9	116.37	1.6329	0.042
143.50	205.4	162.8	116.37	1.6307	0.042
144.00	206.2	163.7	116.38	1.6285	0.043
144.50	207.2	164.7	116.39	1.6263	0.043
145.00	208.1	165.6	116.40	1.6241	0.043
145.50	209.1	166.5	116.42	1.6220	0.044
146.00	210.0	167.4	116.42	1.6199	0.044
146.50	210.9	168.4	116.44	1.6177	0.044
147.00	211.8	169.3	116.44	1.6156	0.045
147.50	212.8	170.3	116.45	1.6136	0.045
148.00	213.8	171.2	116.46	1.6115	0.046
148.50	214.8	172.2	116.47	1.6094	0.046
149.00	215.8	173.2	116.48	1.6074	0.047
149.50	216.7	174.2	116.49	1.6054	0.047
150.00	217.6	175.1	116.50	1.6033	0.047
150.50	218.6	176.1	116.51	1.6013	0.048
151.00	219.5	177.0	116.53	1.5993	0.048
151.50	220.5	177.9	116.52	1.5974	0.049
152.00	221.5	178.9	116.53	1.5954	0.049

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
152.50	222.6	180.0	116.55	1.5934	0.050
153.00	223.5	180.9	116.56	1.5915	0.050
153.50	224.5	182.0	116.57	1.5896	0.050
154.00	225.5	183.0	116.58	1.5877	0.051
154.50	226.5	184.0	116.59	1.5858	0.051
155.00	227.5	185.0	116.60	1.5839	0.052
155.50	228.5	186.0	116.62	1.5820	0.052
156.00	229.5	187.0	116.62	1.5801	0.053
156.50	230.5	188.0	116.63	1.5783	0.053
157.00	231.5	189.0	116.63	1.5764	0.054
157.50	232.6	190.0	116.65	1.5746	0.054
158.00	233.5	190.9	116.66	1.5728	0.055
158.50	234.6	192.0	116.67	1.5710	0.055
159.00	235.6	193.0	116.67	1.5692	0.055
159.50	236.6	194.0	116.68	1.5674	0.056
160.00	237.6	195.0	116.70	1.5656	0.056
160.50	238.6	196.1	116.70	1.5639	0.057
161.00	239.7	197.1	116.72	1.5621	0.057
161.50	240.7	198.2	116.72	1.5604	0.058
162.00	241.8	199.2	116.73	1.5586	0.058
162.50	242.8	200.3	116.75	1.5569	0.059
163.00	243.9	201.3	116.75	1.5552	0.059
163.50	245.0	202.4	116.76	1.5535	0.060
164.00	246.0	203.4	116.77	1.5518	0.061
164.50	247.1	204.5	116.78	1.5502	0.061
165.00	248.2	205.6	116.80	1.5485	0.062
165.50	249.2	206.6	116.78	1.5468	0.062
166.00	250.2	207.6	116.81	1.5452	0.063
166.50	251.4	208.8	116.82	1.5435	0.063
167.00	252.4	209.9	116.83	1.5419	0.064
167.50	253.5	211.0	116.83	1.5403	0.064
168.00	254.5	212.0	116.85	1.5387	0.065
168.50	255.7	213.2	116.86	1.5371	0.065
169.00	256.8	214.3	116.86	1.5355	0.066
169.50	257.9	215.4	116.87	1.5339	0.067
170.00	259.0	216.4	116.89	1.5324	0.067
170.50	260.0	217.5	116.89	1.5308	0.068
171.00	261.2	218.6	116.89	1.5292	0.068
171.50	262.3	219.8	116.90	1.5277	0.069
172.00	263.4	220.8	116.91	1.5262	0.069
172.50	264.5	222.0	116.92	1.5246	0.070
173.00	265.6	223.1	116.93	1.5231	0.071
173.50	266.8	224.3	116.94	1.5216	0.071
174.00	267.9	225.3	116.95	1.5201	0.072
174.50	269.0	226.4	116.96	1.5186	0.072
175.00	270.2	227.7	116.97	1.5171	0.073
175.50	271.4	228.9	116.97	1.5157	0.074
176.00	272.6	230.0	116.99	1.5142	0.074
176.50	273.7	231.1	117.00	1.5127	0.075
177.00	274.8	232.2	117.01	1.5113	0.075
177.50	275.9	233.4	117.02	1.5099	0.076

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98 TIME: 10:02:27

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
178.00	277.1	234.6	117.02	1.5084	0.077
178.50	278.3	235.8	117.04	1.5070	0.077
179.00	279.5	236.9	117.04	1.5056	0.078
179.50	280.6	238.1	117.05	1.5042	0.079
180.00	281.9	239.4	117.06	1.5028	0.079
180.50	283.2	240.6	117.06	1.5014	0.080
181.00	284.2	241.6	117.08	1.5000	0.081
181.50	285.5	243.0	117.09	1.4986	0.082
182.00	286.7	244.1	117.10	1.4973	0.082
182.50	287.9	245.3	117.11	1.4959	0.083
183.00	289.1	246.6	117.12	1.4945	0.084
183.50	290.4	247.8	117.13	1.4932	0.084
184.00	291.6	249.0	117.13	1.4918	0.085
184.50	292.8	250.3	117.14	1.4905	0.086
185.00	294.0	251.4	117.15	1.4892	0.086
185.50	295.2	252.6	117.15	1.4879	0.087
186.00	296.4	253.9	117.17	1.4866	0.088
186.50	297.7	255.1	117.17	1.4853	0.089
187.00	298.9	256.3	117.18	1.4840	0.089
187.50	300.1	257.6	117.19	1.4827	0.090
188.00	301.3	258.7	117.20	1.4814	0.091
188.50	302.6	260.0	117.22	1.4801	0.092
189.00	303.8	261.3	117.21	1.4788	0.092
189.50	305.1	262.5	117.23	1.4776	0.093
190.00	306.3	263.8	117.24	1.4763	0.094
190.50	307.7	265.1	117.24	1.4751	0.095
191.00	308.9	266.4	117.25	1.4738	0.095
191.50	310.2	267.6	117.26	1.4726	0.096
192.00	311.5	269.0	117.27	1.4714	0.097
192.50	312.9	270.3	117.27	1.4701	0.098
193.00	314.2	271.7	117.29	1.4689	0.099
193.50	315.5	272.9	117.30	1.4677	0.10
194.00	316.7	274.2	117.31	1.4665	0.100
194.50	318.1	275.5	117.31	1.4653	0.101
195.00	319.4	276.9	117.33	1.4641	0.102
195.50	320.7	278.1	117.33	1.4629	0.103
196.00	321.9	279.4	117.34	1.4617	0.104
196.50	314.0	271.4	117.35	1.4606	0.099
197.00	315.7	273.2	117.36	1.4594	0.10
197.50	317.2	274.6	117.35	1.4582	0.101
198.00	318.5	276.0	117.37	1.4571	0.101
198.50	319.8	277.3	117.38	1.4559	0.102
199.00	321.3	278.7	117.39	1.4548	0.103
199.50	322.6	280.1	117.40	1.4536	0.104
200.00	324.0	281.4	117.41	1.4525	0.105
200.50	325.4	282.8	117.41	1.4514	0.106
201.00	326.7	284.2	117.43	1.4502	0.107
201.50	328.1	285.6	117.44	1.4491	0.108
202.00	329.5	286.9	117.44	1.4480	0.109
202.50	331.0	288.5	117.45	1.4469	0.110
203.00	332.3	289.8	117.46	1.4458	0.110

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
203.50	333.8	291.2	117.47	1.4447	0.111
204.00	335.2	292.7	117.51	1.4436	0.112
204.50	336.5	294.0	117.48	1.4425	0.113
205.00	338.0	295.4	117.49	1.4415	0.114
205.50	339.4	296.9	117.50	1.4404	0.115
206.00	340.8	298.3	117.50	1.4393	0.116
206.50	342.2	299.7	117.52	1.4383	0.117
207.00	343.7	301.1	117.53	1.4372	0.118
207.50	345.2	302.6	117.53	1.4361	0.119
208.00	346.6	304.1	117.54	1.4351	0.120
208.50	348.1	305.6	117.55	1.4341	0.121
209.00	349.6	307.0	117.55	1.4330	0.122
209.50	351.1	308.5	117.56	1.4320	0.123
210.00	352.5	309.9	117.57	1.4310	0.124
210.50	353.9	311.4	117.59	1.4299	0.125
211.00	355.4	312.9	117.59	1.4289	0.126
211.50	356.9	314.4	117.59	1.4279	0.127
212.00	358.4	315.8	117.61	1.4269	0.128
212.50	359.9	317.3	117.61	1.4259	0.130
213.00	361.3	318.8	117.62	1.4249	0.131
213.50	362.8	320.3	117.64	1.4239	0.132
214.00	364.2	321.7	117.64	1.4229	0.133
214.50	365.7	323.2	117.65	1.4219	0.134
215.00	367.3	324.7	117.65	1.4209	0.135
215.50	368.8	326.2	117.67	1.4200	0.136
216.00	370.3	327.7	117.67	1.4190	0.137
216.50	371.7	329.2	117.69	1.4180	0.138
217.00	373.2	330.7	117.69	1.4171	0.139
217.50	374.6	332.1	117.70	1.4161	0.140
218.00	376.2	333.6	117.71	1.4151	0.141
218.50	377.6	335.0	117.72	1.4142	0.143
219.00	379.1	336.6	117.73	1.4132	0.144
219.50	380.5	338.0	117.73	1.4123	0.145
220.00	382.0	339.5	117.74	1.4114	0.146
220.50	383.5	341.0	117.74	1.4104	0.147
221.00	385.1	342.5	117.77	1.4095	0.148
221.50	386.6	344.0	117.76	1.4086	0.149
222.00	388.1	345.5	117.78	1.4077	0.151
222.50	389.5	347.0	117.78	1.4067	0.152
223.00	391.0	348.5	117.80	1.4058	0.153
223.50	392.5	350.0	117.80	1.4049	0.154
224.00	394.1	351.6	117.81	1.4040	0.155
224.50	395.6	353.1	117.81	1.4031	0.157
225.00	397.1	354.5	117.83	1.4022	0.158
225.50	398.6	356.1	117.83	1.4013	0.159
226.00	400.1	357.5	117.83	1.4004	0.160
226.50	401.6	359.0	117.85	1.3996	0.161
227.00	403.2	360.6	117.85	1.3987	0.163
227.50	404.8	362.2	117.87	1.3978	0.164
228.00	406.2	363.7	117.87	1.3969	0.165
228.50	407.9	365.3	117.89	1.3961	0.166

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10597 DST#4 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 01/31/98

TIME: 10:02:27

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	229.00	409.5	366.9	117.89	1.3952	0.168
	229.50	411.0	368.4	117.90	1.3943	0.169
	230.00	412.5	370.0	117.90	1.3935	0.170
	230.50	414.0	371.5	117.92	1.3926	0.171
	231.00	415.6	373.1	117.93	1.3918	0.173
	231.50	417.0	374.5	117.93	1.3909	0.174
	232.00	418.7	376.2	117.94	1.3901	0.175
	232.50	420.3	377.8	117.94	1.3892	0.177
	233.00	421.9	379.4	117.95	1.3884	0.178
	233.50	423.5	380.9	117.97	1.3876	0.179
	234.00	424.9	382.4	117.98	1.3868	0.181
	234.50	426.6	384.1	117.98	1.3859	0.182
	235.00	428.1	385.6	117.98	1.3851	0.183
	235.50	429.7	387.2	117.99	1.3843	0.185
	236.00	431.2	388.7	118.00	1.3835	0.186
	236.50	432.9	390.3	118.01	1.3827	0.187
	237.00	434.4	391.9	117.91	1.3819	0.189
	237.50	436.1	393.5	118.03	1.3811	0.190
	238.00	437.6	395.0	118.04	1.3803	0.191
	238.50	439.2	396.6	118.04	1.3795	0.193
*****	End Shut-in 2	239.00	440.8	398.2	118.04	0.194
*****	Final Hydro.	515.00	2250.3	0.0	118.32	

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10597

Well Name & No. <u>ALLEN A-1</u>	Test No. <u>4</u>	Date <u>1-31-98</u>
Company <u>WOOLSEY PETL. CORP.</u>	Zone Tested <u>MISS.</u>	
Address <u>125 N. MARKET ST. 1000, WICHITA, KS. 67202</u>		Elevation <u>1719</u> KB <u>1706</u> GL
Co. Rep / Geo. <u>MIKHAL MAUNE</u>	Cont. <u>DUKE DRUG #7</u>	Est. Ft. of Pay <u>8</u> Por. <u>10</u> %
Location: Sec. <u>3</u>	Twp. <u>34S</u>	Rge. <u>13W</u> Co. <u>BARBER</u> State <u>Ks.</u>
No. of Copies <u>6</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>-</u> Evaluation (Y, N) <u>-</u>

Interval Tested <u>4121 - 4792'</u>	Initial Str Wt./Lbs. <u>14,000</u>	Unseated Str Wt./Lbs. <u>64,000</u>
Anchor Length <u>71'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>4116'</u>	Tool Weight <u>2,100</u>	
Bottom Packer Depth <u>4121'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4792'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>210'</u>
Mud Wt. <u>9.1</u> LCM <u>4#</u> Vis. <u>47</u> WL <u>9.2</u> cc.	Drill Pipe Size <u>4 1/2" x 4</u>	Ft. Run <u>4487'</u>
Blow Description <u>IF: Wash below, 1/2 - 2"</u>		

↕

FF: 1 1/2 - 2" throughout, wash below.

Recovery — Total Feet <u>20</u>	GIP <u>?</u>	Ft. in DC <u>20</u>	Ft. in DP <u>~</u>
Rec. <u>20</u> Feet Of <u>Dry Mud.</u>	%gas	%oil	%water
Rec. _____ Feet Of <u>(Slightly gas cut)</u>	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water
Rec. _____ Feet Of _____	%gas	%oil	%water

BHT 118 °F Gravity N/A °API D@ 2 °F Corrected Gravity N/A °API

RW N/C @ 2 °F Chlorides 4,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud <u>2316</u>   <u>2352</u> PSI	Recorder No. <u>10248</u>	T-Started <u>1002</u>
(B) First Initial Flow Pressure <u>55</u>   <u>33</u> PSI	(depth) <u>4789'</u>	T-Open <u>1204</u>
(C) First Final Flow Pressure <u>59</u>   <u>35</u> PSI	Recorder No. <u>2342</u>	T-Pulled <u>1836</u>
(D) Initial Shut-in Pressure <u>148</u>   <u>142</u> PSI	(depth) <u>4733'</u>	T-Out <u>2050</u>
(E) Second Initial Flow Pressure <u>69</u>   <u>32</u> PSI	Recorder No. <u>~</u>	
(F) Second Final Flow Pressure <u>73</u>   <u>43</u> PSI	(depth) <u>~</u>	
(G) Final Shut-in Pressure <u>450</u>   <u>441</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>700</u>
(H) Final Hydrostatic Mud <u>2292</u>   <u>2250</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>
<u>AK-1</u>   <u>ALDENE</u>	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</u>
	Final Shut-in <u>240</u>	Straddle _____
	<u>4</u>	Circ. Sub _____
		Sampler _____
		Extra Packer _____
		Elect. Rec. <input checked="" type="checkbox"/> <u>150</u>
		Other Time <input checked="" type="checkbox"/> <u>3 @ 30</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 Mikhal K. Maune

Our Representative \_\_\_\_\_

TOTAL PRICE \$ \_\_\_\_\_

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl. Corp.  
 WELL NAME: Allen A-1  
 LOCATION : 3-34s-13w CO Barber KS  
 INTERVAL : 4796.00 To 4835.00 ft

DATE 02-01-98  
 KB 1719.00 ft TICKET NO: 10598 DST #5  
 GR 1706.00 ft FORMATION: Mississippi  
 TD 4835.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10248	10248	2342			PF Fr. 0838 to 0908 hr
SI 60	Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 0908 to 1008 hr
SF 60	Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1008 to 1108 hr
FS 240	Depth(ft )	4832.0	4832.0	4807.0	0.0	0.0	FS Fr. 1108 to 1508 hr

	Field	1	2	3	4	
A. Init Hydro	2417.0	2119.0	0.0	0.0	0.0	T STARTED 0620 hr
B. First Flow	37.0	42.0	0.0	0.0	0.0	T ON BOTM 0830 hr
B1. Final Flow	34.0	35.0	0.0	0.0	0.0	T OPEN 0838 hr
C. In Shut-in	577.0	578.0	0.0	0.0	0.0	T PULLED 1510 hr
D. Init Flow	34.0	44.0	0.0	0.0	0.0	T OUT 1700 hr
E. Final Flow	34.0	30.0	0.0	0.0	0.0	
F. Fl Shut-in	835.0	841.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2371.0	2366.0	0.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 75000.00 lbs
						Initial Str Wt 65000.00 lbs
						Unseated Str Wt 65000.00 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 240.00 ft
						D.P. Length 4551.00 ft

RECOVERY

Tot Fluid 40.00 ft of 40.00 ft in DC and C.00 ft in DP  
 140.00 ft of Gas in Pipe  
 0.00 ft of Slight gas cut mud 3% g  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw n/c ohms @ degrees F.  
 0.00 ft of EST FT. of PAY-----25  
 SALINITY 4000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Weak to fair blow. Slow increase to 6"  
 Initial Shut-in:  
 No blow.  
 Final Flow:  
 Strong blow. Btm. of bucket in 10 secs.  
 Final Shut-in:  
 Very weak surface blow

SAMPLES:  
 SENT TO:Caraway/Liberal

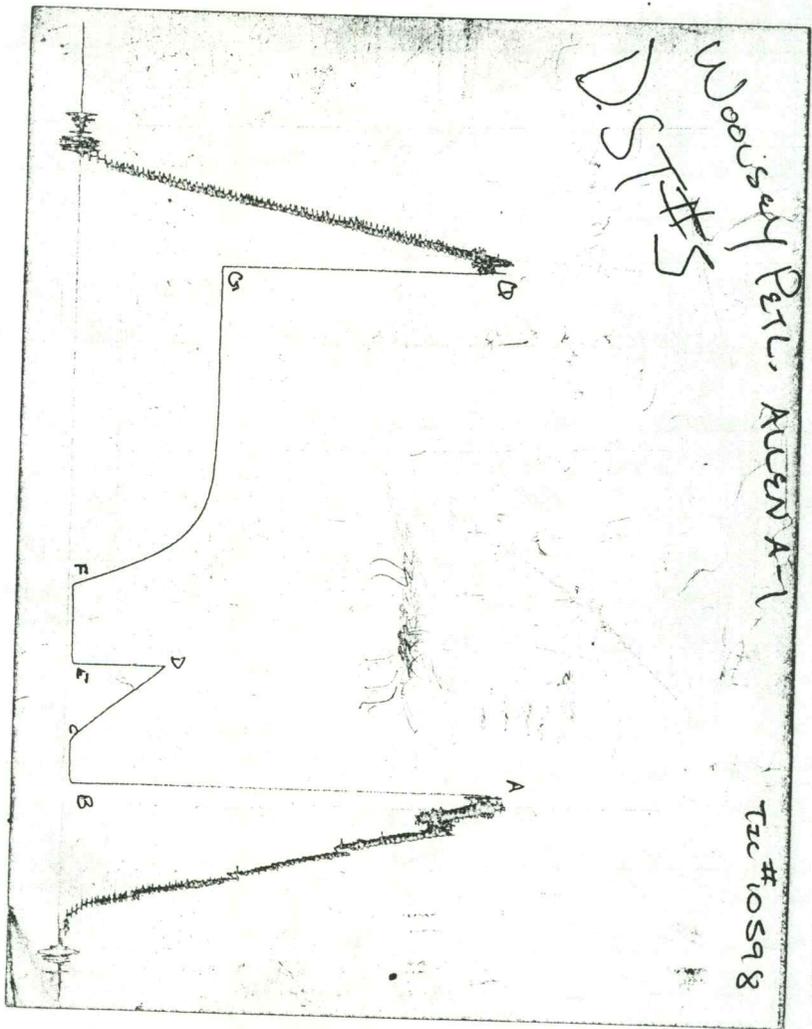
MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	52.00 S/L
W.L.	9.20 in3
F.C.	0.20 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	125.00 F
Hole Condition	good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Mikeal Maune
Contr.	Duke Drlg.
Rig #	7
Unit #	
Pump T.	LCM 4 #/bl

Test Successful: Y



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 10598

Well Name & No.	<u>Allen A-1</u>	Test No.	<u>5</u>	Date	<u>2-1-98</u>
Company	<u>Woolsey Petr. Corp.</u>	Zone Tested	<u>MISS</u>		
Address	<u>Wichita KS, 67202</u>	Elevation	<u>1719 KB</u>	<u>1706 GL</u>	
Co. Rep / Geo.	<u>Michael Maune Cont.</u>	Drill Drug #	<u>7</u>	Est. Ft. of Pay	<u>25</u> Por. <u>10</u> %
Location: Sec.	<u>3</u>	Twp.	<u>34<sup>S</sup></u>	Rge.	<u>13<sup>W</sup></u> Co. <u>BARBER</u> State <u>KS</u>
No. of Copies	<u>6</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u></u>
		Evaluation (Y, N)	<u></u>		

Interval Tested	<u>4796 - 4835'</u>	Initial Str Wt./Lbs.	<u>65,000</u>	Unseated Str Wt./Lbs.	<u>65,000</u>
Anchor Length	<u>39'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>75,000</u>
Top Packer Depth	<u>4791'</u>	Tool Weight	<u>2100 #</u>		
Bottom Packer Depth	<u>4796'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>		
Total Depth	<u>4835'</u>	Wt. Pipe Run	<u>NONE</u>	Drill Collar Run	<u>240</u>
Mud Wt.	<u>9.1 LCM 4<sup>#</sup> Vis. 52 WL 9.2 cc.</u>	Drill Pipe Size	<u>4 1/2" x 14 Ft. Run</u>	<u>4551'</u>	
Blow Description	<u>IF: weak for gain below. slow increase to 6"</u>				

FF: strong below. Run of bucket in 10 secs.  
FSI: very weak surface below.

Recovery — Total Feet	Fluid	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
40	SGCM	140'	40		3		97	
Rec. 40	Feet Of				%gas	%oil	%water	%mud
Rec.	Feet Of				%gas	%oil	%water	%mud
Rec.	Feet Of	COMMENT: BATTERY ON			%gas	%oil	%water	%mud
Rec.	Feet Of	ALPINE DISCONNECTED!			%gas	%oil	%water	%mud
Rec.	Feet Of				%gas	%oil	%water	%mud

BHT 125 °F Gravity N/A °API D@ ~ °F Corrected Gravity N/A °API  
 RW N.C. @ ~ °F Chlorides 4,000 ppm Recovery Chlorides 4,000 ppm System

(A) Initial Hydrostatic Mud	<u>2417</u>	PSI	Recorder No.	<u>10248</u>	T-Started	<u>0620</u>
(B) First Initial Flow Pressure	<u>37</u>	PSI	(depth)	<u>4832'</u>	T-Open	<u>0838</u>
(C) First Final Flow Pressure	<u>34</u>	PSI	Recorder No.	<u>2342</u>	T-Pulled	<u>1510</u>
(D) Initial Shut-in Pressure	<u>577</u>	PSI	(depth)	<u>4807'</u>	T-Out	<u>1700</u>
(E) Second Initial Flow Pressure	<u>34</u>	PSI	Recorder No.	<u>~</u>		
(F) Second Final Flow Pressure	<u>34</u>	PSI	(depth)	<u>~</u>		
(G) Final Shut-in Pressure	<u>835</u>	PSI	Initial Opening	<u>30</u>	Test	<input checked="" type="checkbox"/> <u>700</u>
(H) Final Hydrostatic Mud	<u>2371</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<input checked="" type="checkbox"/> <u>200</u>
	<u>AK-1</u>		Final Flow	<u>60</u>	Safety Joint	<input checked="" type="checkbox"/> <u>50</u>
	<u>ALPINE</u>		Final Shut-in	<u>240</u>	Straddle	<u></u>
				<u>4</u>	Circ. Sub	<u></u>
					Sampler	<u></u>
					Extra Packer	<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 Michael K. Maune

Elect. Rec.  No Charge  
 Other Time 10 1/2  30 @ 30

TRILOBITE TESTING L.L.C.

OPERATOR : Woolsey Petl. Corp. DATE 02-02-98  
 WELL NAME: Allen A-1 KB 1719.00 ft TICKET NO: 10599 DST #6  
 LOCATION : 3-34s-13w CO Barber KS GR 1706.00 ft FORMATION: Viola  
 INTERVAL : 5056.00 To 5085.00 ft TD 5085.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 2310 to 2340 hr
SI 60 Range(Psi )	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 2340 to 0040 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0040 to 0140 hr
FS 240 Depth(ft )	5082.0	5082.0	5062.0	0.0	0.0	FS Fr. 0140 to 0540 hr

	Field	1	2	3	4	
A. Init Hydro	2499.0	2437.0	2457.0	0.0	0.0	T STARTED 2108 hr
B. First Flow	34.0	46.0	31.0	0.0	0.0	T ON BOTM 2302 hr
Bl. Final Flow	34.0	46.0	34.0	0.0	0.0	T OPEN 2310 hr
C. In Shut-in	1906.0	1903.0	1912.0	0.0	0.0	T PULLED 0544 hr
D. Init Flow	44.0	53.0	29.0	0.0	0.0	T OUT 0820 hr
E. Final Flow	57.0	62.0	54.0	0.0	0.0	
F. Fl Shut-in	1753.0	1738.0	1741.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2470.0	2470.0	2438.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 30000.00 lbs

RECOVERY

Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP  
 4719.00 ft of Gas in Pipe  
 120.00 ft of Heavy oil cut mud 3% gas 40%oil 57%mud  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of  
 0.00 ft of Rw n/c ohms @ degrees F.  
 0.00 ft of EST FT. of PAY-----6  
 SALINITY 4000.00 P.P.M. A.P.I. Gravity 0.00

Wt Pulled Loose 75000.00 lbs  
 Initial Str Wt 67000.00 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 240.00 ft  
 D.P. Length 4797.00 ft

BLOW DESCRIPTION

Initial Flow:  
 Strong blow botto of bucket in 4 mins

Initial Shut-in:  
 Weak blow after 20 mins. (1/2")

Fina Flow:  
 Strong blow. Bottom. of bucket in 10 secs.

Fina Shut-in:  
 Weak blow. (1 - 4") GTS 55 mins in

SAMPLES:  
 SENT TO:Caraway/Liberal

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.20 lb/c  
 Vis. 54.00 S/L  
 W.L. 9.20 in3  
 F.C. 0.20 in  
 Mud Drop N  
 Amt. of fill 0.00 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 N  
 Cushion Type None  
 Reversed Out N  
 Tool Chased N  
 Tester Gary Pevoteaux  
 Co. Rep. Mikeal Maune  
 Contr. Duke Drlg.  
 Rig # 7  
 Unit #  
 Pump T. LCM 4 #/bl

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Allen A-1

LOCATION : 3-34s-13w CO Baber KS

TICKET No. 10599 D.S.T. No. 6 DATE 02-02-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 29

TOTAL TOOL ..... 56

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 56

D.C. ABOVE TOOLS.Stands4 Single Total 240

D.P. ABOVE TOOLS.Stands77 Single Total 4797

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5093

TOTAL DEPTH ..... 5085

TOTAL DRILL PIPE ABOVE K.B. .... 8

REMARKS:  
Comments:

Fax reports to WPC # 316 267 4383

P.O. SUB		
C.O. SUB @ top of tool		5029
S.I. TOOL Sterling		5035
HMV Sterling		5040
JARS Bowen		5045
SAFETY JOINT Bowen		5047
PACKER Top		5051
PACKER Btm.		5056
DEPTH	5056	
STUBB 1 ft.		5057
ANCHOR		
perfs		
Alpine rec. @		5062
T.C.		
DEPTH		
23 ft. perfs to		5080
AK-1 rec. @		5082
BULLNOSE 5 ft. perforated		5085
T.D.		

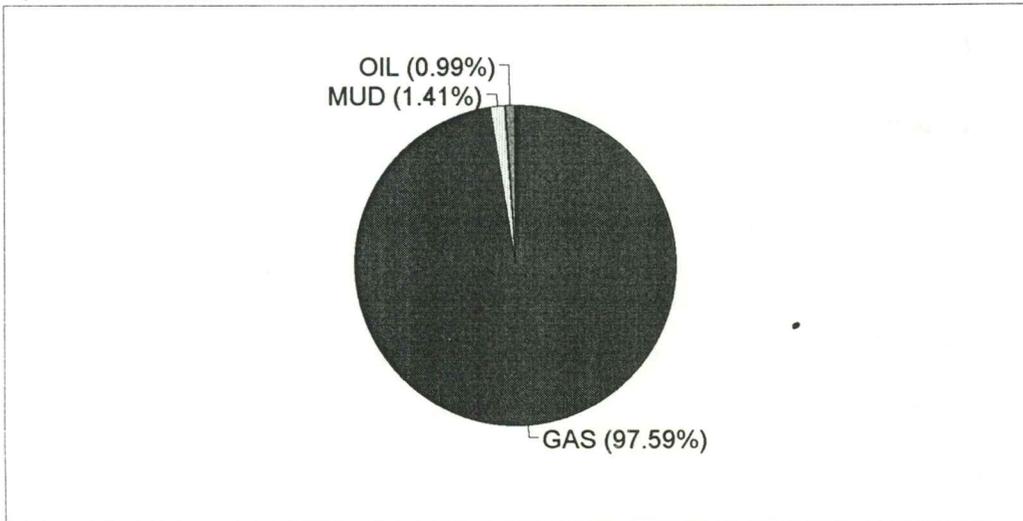
CALCULATED RECOVERY ANALYSIS

DST 6

TICKET 10599

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
DRILL 1	4719	100	4719	0	0	0	0	0	0
PIPE 2	120	3	3.6	40	48	0	0	57	68.4
3			0		0		0		0
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			0		0		0		0
COLLARS 2			0		0		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	4839		4722.6		48		0		68.4

BBL OIL = 0.68256 \* 1.3 = 10.92096  
 BBL WATER = 0 \* = 0  
 BBL MUD = 0.972648  
 BBL GAS = 67.15537

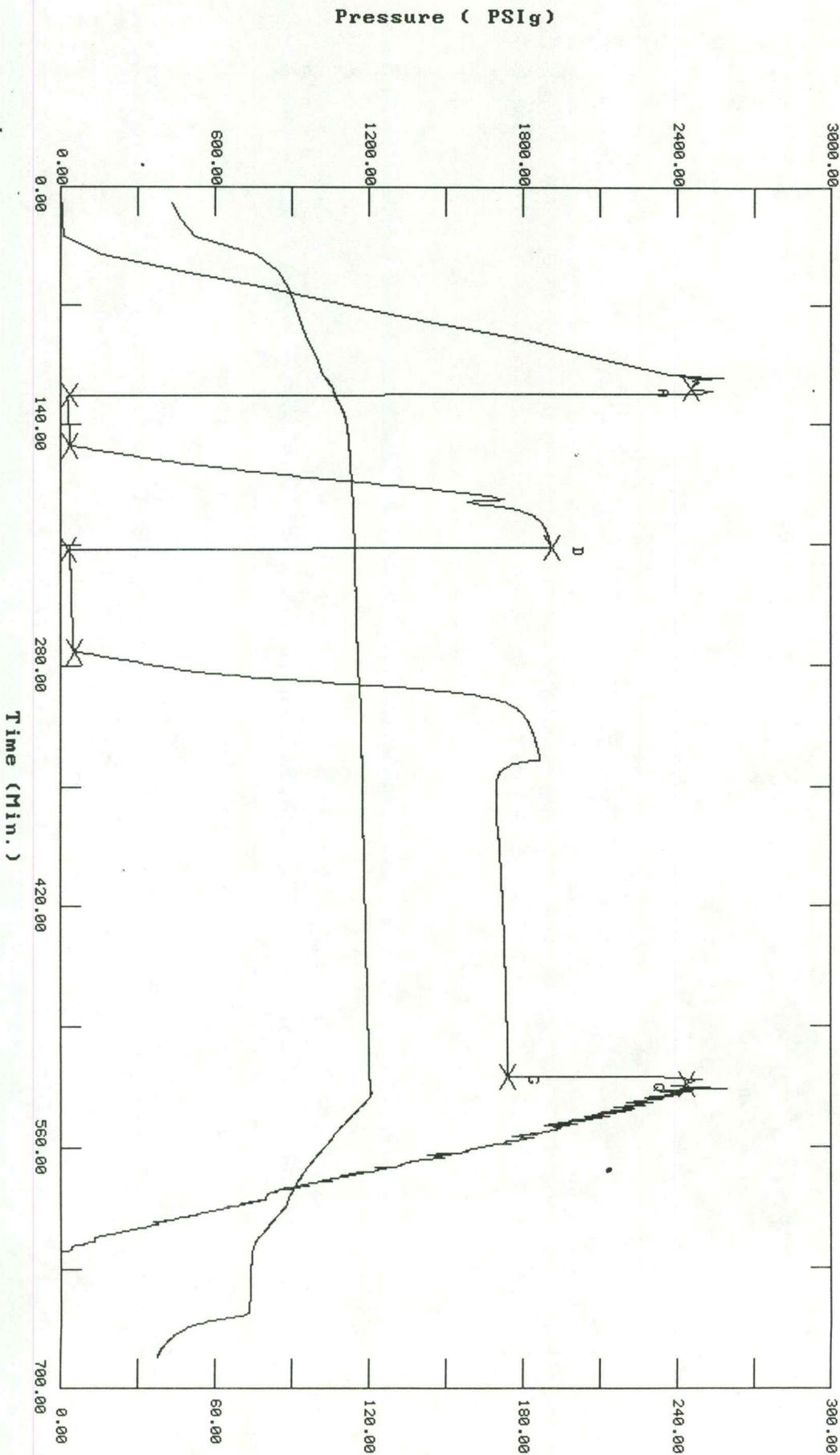


# TEST HISTORY

10599 DST#6 ALLEN A-1 WOOLSEY PETL. CORP.

Flag Points  
 t(Min.) > P(PSig)

R:	0.00	2457.15
B:	0.00	30.79
C:	29.50	33.81
D:	60.00	1912.04
E:	0.00	29.20
F:	59.00	53.79
G:	247.00	1741.18
Q:	0.00	2437.84

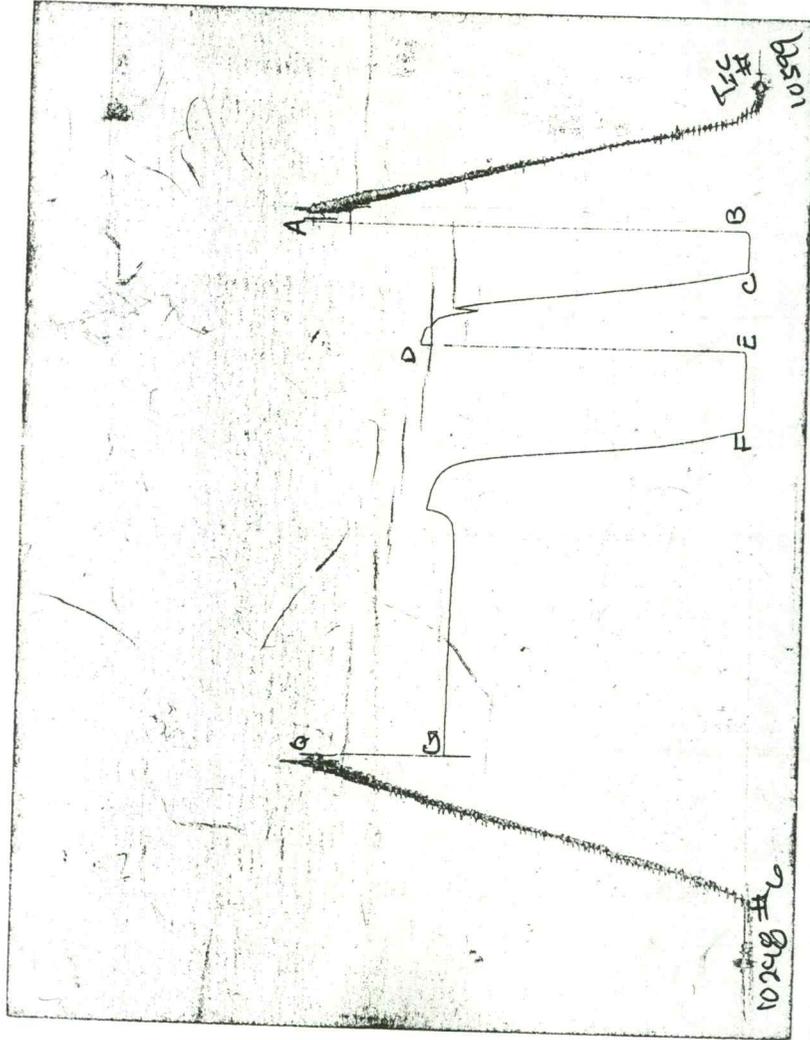


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



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

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98                      TIME: 21:08:15  
 -----

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	119.00	2457.1	0.0	105.98		
***** Start Flow 1	0.00	30.8	0.0	106.82		
	0.50	26.0	-4.8	106.91		
	1.00	23.6	-7.2	106.99		
	1.50	24.2	-6.6	107.09		
	2.00	24.0	-6.8	107.23		
	2.50	24.2	-6.6	107.40		
	3.00	24.5	-6.3	107.58		
	3.50	25.2	-5.6	107.79		
	4.00	25.0	-5.8	108.00		
	4.50	25.4	-5.4	108.19		
	5.00	25.8	-5.0	108.38		
	5.50	26.1	-4.7	108.56		
	6.00	26.2	-4.6	108.74		
	6.50	26.7	-4.1	108.91		
	7.00	26.8	-4.0	109.08		
	7.50	27.3	-3.5	109.23		
	8.00	27.3	-3.5	109.39		
	8.50	27.9	-2.9	109.54		
	9.00	27.7	-3.1	109.68		
	9.50	28.0	-2.8	109.82		
	10.00	28.3	-2.5	109.95		
	10.50	28.4	-2.3	110.08		
	11.00	28.6	-2.2	110.20		
	11.50	28.9	-1.9	110.32		
	12.00	29.1	-1.7	110.43		
	12.50	29.5	-1.3	110.54		
	13.00	29.4	-1.4	110.65		
	13.50	29.6	-1.2	110.74		
	14.00	29.8	-1.0	110.82		
	14.50	30.0	-0.8	110.91		
	15.00	30.2	-0.6	110.99		
	15.50	30.4	-0.4	111.06		
	16.00	30.6	-0.2	111.13		
	16.50	30.0	-0.8	111.19		
	17.00	30.3	-0.5	111.25		
	17.50	30.3	-0.5	111.32		
	18.00	30.9	0.1	111.37		
	18.50	30.8	0.0	111.42		
	19.00	31.0	0.3	111.47		
	19.50	31.0	0.3	111.52		
	20.00	31.2	0.4	111.57		
	20.50	31.3	0.5	111.61		
	21.00	31.3	0.5	111.66		
	21.50	31.5	0.8	111.70		
	22.00	31.6	0.8	111.74		
	22.50	31.9	1.1	111.77		
	23.00	32.0	1.2	111.81		
	23.50	32.1	1.3	111.85		
	24.00	32.2	1.4	111.88		
	24.50	32.5	1.7	111.92		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

.TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	25.00	32.7	1.9	111.96		
	25.50	32.8	2.0	112.00		
	26.00	32.9	2.1	112.04		
	26.50	33.0	2.2	112.06		
	27.00	33.3	2.5	112.09		
	27.50	33.3	2.5	112.13		
	28.00	33.5	2.7	112.16		
	28.50	33.6	2.8	112.19		
	29.00	33.9	3.1	112.23		
***** End Flow 1	29.50	33.8	3.0	112.27		
***** Start Shutin 1	0.00	33.8	0.0	112.27	0.0000	0.001
	0.50	54.0	20.1	112.30	60.0000	0.003
	1.00	73.8	40.0	112.33	30.5000	0.005
	1.50	93.9	60.1	112.36	20.6667	0.009
	2.00	113.8	80.0	112.38	15.7500	0.013
	2.50	133.7	99.9	112.40	12.8000	0.018
	3.00	153.6	119.8	112.41	10.8333	0.024
	3.50	173.6	139.7	112.42	9.4286	0.030
	4.00	193.5	159.7	112.44	8.3750	0.037
	4.50	213.7	179.9	112.46	7.5556	0.046
	5.00	233.8	200.0	112.47	6.9000	0.055
	5.50	254.2	220.4	112.49	6.3636	0.065
	6.00	274.8	241.0	112.51	5.9167	0.075
	6.50	295.6	261.8	112.54	5.5385	0.087
	7.00	316.7	282.9	112.55	5.2143	0.100
	7.50	338.1	304.3	112.58	4.9333	0.114
	8.00	360.0	326.2	112.60	4.6875	0.130
	8.50	382.5	348.6	112.63	4.4706	0.146
	9.00	405.7	371.9	112.64	4.2778	0.165
	9.50	429.5	395.6	112.67	4.1053	0.184
	10.00	454.2	420.4	112.68	3.9500	0.206
	10.50	479.5	445.7	112.70	3.8095	0.230
	11.00	505.3	471.5	112.72	3.6818	0.255
	11.50	531.8	497.9	112.75	3.5652	0.283
	12.00	558.9	525.1	112.78	3.4583	0.312
	12.50	586.4	552.6	112.79	3.3600	0.344
	13.00	614.4	580.6	112.82	3.2692	0.378
	13.50	643.1	609.3	112.84	3.1852	0.414
	14.00	672.3	638.5	112.87	3.1071	0.452
	14.50	702.0	668.2	112.88	3.0345	0.493
	15.00	732.2	698.4	112.91	2.9667	0.536
	15.50	762.7	728.9	112.93	2.9032	0.582
	16.00	793.6	759.8	112.95	2.8438	0.630
	16.50	824.9	791.1	112.99	2.7879	0.680
	17.00	854.5	820.7	113.06	2.7353	0.730
	17.50	886.9	853.1	113.04	2.6857	0.787
	18.00	919.5	885.7	113.06	2.6389	0.845
	18.50	952.7	918.8	113.08	2.5946	0.908
	19.00	986.2	952.4	113.11	2.5526	0.973
	19.50	1020.3	986.5	113.12	2.5128	1.041
	20.00	1054.7	1020.9	113.15	2.4750	1.112

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.50	1089.3	1055.5	113.18	2.4390	1.187
21.00	1124.5	1090.6	113.20	2.4048	1.264
21.50	1159.9	1126.1	113.22	2.3721	1.345
22.00	1195.3	1161.5	113.24	2.3409	1.429
22.50	1230.7	1196.9	113.26	2.3111	1.515
23.00	1266.0	1232.2	113.29	2.2826	1.603
23.50	1301.2	1267.4	113.33	2.2553	1.693
24.00	1335.9	1302.1	113.34	2.2292	1.785
24.50	1370.0	1336.2	113.35	2.2041	1.877
25.00	1403.8	1370.0	113.38	2.1800	1.971
25.50	1436.5	1402.7	113.42	2.1569	2.064
26.00	1468.4	1434.6	113.43	2.1346	2.156
26.50	1498.9	1465.1	113.46	2.1132	2.247
27.00	1528.2	1494.4	113.37	2.0926	2.335
27.50	1556.2	1522.4	113.51	2.0727	2.422
28.00	1582.8	1549.0	113.54	2.0536	2.505
28.50	1607.9	1574.1	113.54	2.0351	2.585
29.00	1631.3	1597.5	113.55	2.0172	2.661
29.50	1653.0	1619.2	113.58	2.0000	2.733
30.00	1673.3	1639.5	113.61	1.9833	2.800
30.50	1692.1	1658.2	113.63	1.9672	2.863
31.00	1709.3	1675.5	113.65	1.9516	2.922
31.50	1725.1	1691.3	113.66	1.9365	2.976
32.00	1695.4	1661.6	113.67	1.9219	2.874
32.50	1631.3	1597.5	113.69	1.9077	2.661
33.00	1585.3	1551.5	113.71	1.8939	2.513
33.50	1587.3	1553.5	113.73	1.8806	2.520
34.00	1621.9	1588.1	113.73	1.8676	2.631
34.50	1643.6	1609.7	113.73	1.8551	2.701
35.00	1676.3	1642.5	113.76	1.8429	2.810
35.50	1702.4	1668.6	113.77	1.8310	2.898
36.00	1724.6	1690.8	113.79	1.8194	2.974
36.50	1743.8	1710.0	113.80	1.8082	3.041
37.00	1760.5	1726.7	113.84	1.7973	3.100
37.50	1775.1	1741.3	113.84	1.7867	3.151
38.00	1788.1	1754.3	113.88	1.7763	3.197
38.50	1799.4	1765.6	113.86	1.7662	3.238
39.00	1809.5	1775.7	113.87	1.7564	3.274
39.50	1818.3	1784.5	113.89	1.7468	3.306
40.00	1826.3	1792.4	113.90	1.7375	3.335
40.50	1833.2	1799.4	113.92	1.7284	3.361
41.00	1839.7	1805.9	113.93	1.7195	3.384
41.50	1845.3	1811.5	113.95	1.7108	3.405
42.00	1850.4	1816.6	113.97	1.7024	3.424
42.50	1855.1	1821.3	113.98	1.6941	3.442
43.00	1859.2	1825.4	114.01	1.6860	3.457
43.50	1863.1	1829.3	113.76	1.6782	3.471
44.00	1866.5	1832.7	114.03	1.6705	3.484
44.50	1869.7	1835.9	114.04	1.6629	3.496
45.00	1872.6	1838.8	114.06	1.6556	3.507
45.50	1875.2	1841.4	114.07	1.6484	3.516

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSig	delta PSig	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
46.00	1877.7	1843.9		114.08	1.6413	3.526
46.50	1880.0	1846.2		114.10	1.6344	3.534
47.00	1882.2	1848.3		114.09	1.6277	3.543
47.50	1884.2	1850.4		114.13	1.6211	3.550
48.00	1886.0	1852.2		114.13	1.6146	3.557
48.50	1887.8	1854.0		114.13	1.6082	3.564
49.00	1889.5	1855.6		114.16	1.6020	3.570
49.50	1891.1	1857.2		114.16	1.5960	3.576
50.00	1892.5	1858.7		114.17	1.5900	3.581
50.50	1893.8	1860.0		114.19	1.5842	3.587
51.00	1895.2	1861.4		114.20	1.5784	3.592
51.50	1896.5	1862.7		114.22	1.5728	3.597
52.00	1897.8	1864.0		114.23	1.5673	3.602
52.50	1898.9	1865.0		114.24	1.5619	3.606
53.00	1899.9	1866.1		114.25	1.5566	3.610
53.50	1901.0	1867.2		114.26	1.5514	3.614
54.00	1902.0	1868.1		114.29	1.5463	3.617
54.50	1903.0	1869.2		114.28	1.5413	3.621
55.00	1904.0	1870.2		114.29	1.5364	3.625
55.50	1904.8	1871.0		114.31	1.5315	3.628
56.00	1905.7	1871.9		114.32	1.5268	3.632
56.50	1906.6	1872.8		114.33	1.5221	3.635
57.00	1907.4	1873.6		114.32	1.5175	3.638
57.50	1908.3	1874.4		114.35	1.5130	3.641
58.00	1908.9	1875.1		114.38	1.5086	3.644
58.50	1909.8	1876.0		114.38	1.5043	3.647
59.00	1910.5	1876.7		114.39	1.5000	3.650
59.50	1911.3	1877.5		114.41	1.4958	3.653
60.00	1912.0	1878.2		114.41	1.4917	3.656
***** End Shut-in 1						
0.00	29.2	0.0		114.36		
0.50	30.3	1.1		114.32		
1.00	31.5	2.3		114.30		
1.50	32.3	3.1		114.28		
2.00	32.8	3.6		114.29		
2.50	33.6	4.4		114.30		
3.00	34.0	4.8		114.30		
3.50	34.2	5.0		114.31		
4.00	34.4	5.2		114.33		
4.50	34.8	5.6		114.34		
5.00	35.0	5.8		114.34		
5.50	35.2	6.0		114.36		
6.00	35.3	6.1		114.38		
6.50	35.7	6.5		114.39		
7.00	35.9	6.7		114.41		
7.50	36.1	6.9		114.42		
8.00	36.2	7.0		114.44		
8.50	36.2	7.0		114.45		
9.00	36.2	7.0		114.47		
9.50	36.5	7.3		114.48		
10.00	36.3	7.1		114.49		
10.50	36.6	7.4		114.51		
***** Start Flow 2						

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98 TIME: 21:08:15

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
11.00	36.6	7.4	114.52		
11.50	36.7	7.5	114.54		
12.00	36.8	7.6	114.54		
12.50	36.9	7.7	114.57		
13.00	37.3	8.1	114.58		
13.50	37.6	8.4	114.59		
14.00	37.8	8.6	114.61		
14.50	37.9	8.7	114.63		
15.00	37.9	8.7	114.64		
15.50	38.1	8.9	114.65		
16.00	38.3	9.1	114.67		
16.50	38.5	9.3	114.68		
17.00	38.5	9.3	114.69		
17.50	38.6	9.4	114.71		
18.00	38.7	9.5	114.72		
18.50	38.9	9.7	114.74		
19.00	38.9	9.7	114.75		
19.50	39.1	9.9	114.76		
20.00	39.4	10.2	114.78		
20.50	39.6	10.4	114.80		
21.00	39.7	10.5	114.81		
21.50	39.9	10.7	114.88		
22.00	39.9	10.7	114.91		
22.50	40.1	10.9	114.86		
23.00	40.3	11.1	114.86		
23.50	40.3	11.1	114.87		
24.00	40.4	11.2	114.80		
24.50	40.6	11.4	114.89		
25.00	40.6	11.4	114.91		
25.50	40.9	11.7	114.92		
26.00	40.9	11.7	114.93		
26.50	40.9	11.7	114.95		
27.00	41.0	11.8	114.96		
27.50	41.5	12.3	114.97		
28.00	41.3	12.1	114.98		
28.50	41.7	12.5	114.99		
29.00	41.6	12.4	115.00		
29.50	41.9	12.7	115.01		
30.00	41.8	12.6	115.03		
30.50	41.7	12.5	115.04		
31.00	41.7	12.5	115.05		
31.50	41.9	12.7	115.06		
32.00	41.4	12.2	115.06		
32.50	41.6	12.4	115.08		
33.00	41.5	12.3	115.09		
33.50	41.8	12.6	115.09		
34.00	41.8	12.6	115.11		
34.50	42.0	12.8	115.12		
35.00	42.0	12.8	115.13		
35.50	42.1	12.9	115.13		
36.00	42.1	12.9	115.14		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
36.50	42.1	12.9	115.15			
37.00	42.1	12.9	115.16			
37.50	42.5	13.3	115.17			
38.00	42.6	13.4	115.18			
38.50	42.6	13.4	115.19			
39.00	42.5	13.3	115.19			
39.50	42.8	13.6	115.20			
40.00	43.2	14.0	115.21			
40.50	43.0	13.8	115.21			
41.00	43.4	14.2	115.22			
41.50	43.4	14.2	115.24			
42.00	43.3	14.1	115.24			
42.50	43.5	14.4	115.24			
43.00	43.6	14.4	115.25			
43.50	44.0	14.8	115.26			
44.00	44.0	14.8	115.27			
44.50	44.0	14.8	115.27			
45.00	44.1	14.9	115.28			
45.50	44.6	15.4	115.29			
46.00	44.1	14.9	115.30			
46.50	44.6	15.4	115.30			
47.00	44.8	15.6	115.31			
47.50	44.9	15.7	115.32			
48.00	45.1	15.9	115.32			
48.50	45.6	16.4	115.33			
49.00	45.5	16.3	115.34			
49.50	45.5	16.3	115.35			
50.00	45.9	16.7	115.35			
50.50	46.3	17.1	115.36			
51.00	46.1	16.9	115.37			
51.50	46.6	17.4	115.37			
52.00	46.8	17.6	115.38			
52.50	46.8	17.6	115.39			
53.00	47.2	18.0	115.40			
53.50	47.3	18.1	115.40			
54.00	47.3	18.1	115.42			
54.50	47.7	18.5	115.42			
55.00	47.8	18.6	115.42			
55.50	48.2	19.1	115.43			
56.00	48.2	19.1	115.44			
56.50	48.6	19.4	115.45			
57.00	48.6	19.4	115.46			
57.50	48.8	19.6	115.46			
58.00	49.3	20.1	115.47			
58.50	49.3	20.1	115.48			
59.00	53.8	24.6	115.49			
***** End Flow 2						
***** Start Shutin 2	0.00	53.8	0.0	115.49	0.0000	0.003
	0.50	77.0	23.2	115.49	178.0000	0.006
	1.00	98.3	44.5	115.51	89.5000	0.01
	1.50	118.3	64.5	115.51	60.0000	0.014
	2.00	138.9	85.1	115.54	45.2500	0.019

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
2.50	158.7	104.9	115.56	36.4000	0.025
3.00	178.7	124.9	115.57	30.5000	0.032
3.50	198.2	144.4	115.59	26.2857	0.039
4.00	216.3	162.5	115.61	23.1250	0.047
4.50	235.1	181.3	115.63	20.6667	0.055
5.00	254.5	200.7	115.66	18.7000	0.065
5.50	273.2	219.4	115.67	17.0909	0.075
6.00	291.6	237.9	115.70	15.7500	0.085
6.50	310.3	256.5	115.72	14.6154	0.096
7.00	329.3	275.5	115.74	13.6429	0.108
7.50	348.9	295.1	115.76	12.8000	0.122
8.00	369.0	315.2	115.78	12.0625	0.136
8.50	389.4	335.6	115.79	11.4118	0.152
9.00	410.2	356.4	115.81	10.8333	0.168
9.50	431.1	377.3	115.83	10.3158	0.186
10.00	452.4	398.7	115.84	9.8500	0.205
10.50	474.8	421.0	115.86	9.4286	0.225
11.00	497.4	443.6	115.88	9.0455	0.247
11.50	520.8	467.0	115.89	8.6957	0.271
12.00	544.4	490.6	115.90	8.3750	0.296
12.50	575.0	521.2	115.92	8.0800	0.331
13.00	609.6	555.8	115.94	7.8077	0.372
13.50	645.3	591.5	115.95	7.5556	0.416
14.00	682.2	628.5	115.97	7.3214	0.465
14.50	721.2	667.4	115.99	7.1034	0.520
15.00	762.4	708.6	116.07	6.9000	0.581
15.50	805.4	751.6	116.03	6.7097	0.649
16.00	850.5	796.7	116.06	6.5312	0.723
16.50	897.2	843.4	116.07	6.3636	0.805
17.00	945.5	891.7	116.10	6.2059	0.894
17.50	994.2	940.4	116.13	6.0571	0.988
18.00	1043.5	989.7	116.16	5.9167	1.089
18.50	1092.9	1039.1	116.18	5.7838	1.194
19.00	1141.8	1088.0	116.22	5.6579	1.304
19.50	1189.5	1135.7	116.24	5.5385	1.415
20.00	1236.0	1182.2	116.27	5.4250	1.528
20.50	1281.1	1227.3	116.31	5.3171	1.641
21.00	1324.2	1270.4	116.33	5.2143	1.754
21.50	1365.4	1311.6	116.35	5.1163	1.864
22.00	1404.2	1350.4	116.38	5.0227	1.972
22.50	1440.6	1386.8	116.40	4.9333	2.075
23.00	1474.4	1420.6	116.43	4.8478	2.174
23.50	1505.7	1451.9	116.45	4.7660	2.267
24.00	1534.7	1480.9	116.47	4.6875	2.355
24.50	1561.2	1507.4	116.50	4.6122	2.437
25.00	1585.6	1531.8	116.52	4.5400	2.514
25.50	1607.6	1553.8	116.52	4.4706	2.584
26.00	1627.7	1573.9	116.54	4.4038	2.649
26.50	1645.7	1591.9	116.58	4.3396	2.708
27.00	1662.1	1608.3	116.59	4.2778	2.763
27.50	1676.9	1623.1	116.63	4.2182	2.812

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15  
 -----

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
28.00	1689.1	1635.3	116.64	4.1607	2.853
28.50	1701.5	1647.8	116.65	4.1053	2.895
29.00	1712.5	1658.7	116.67	4.0517	2.933
29.50	1722.4	1668.7	116.67	4.0000	2.967
30.00	1731.5	1677.7	116.70	3.9500	2.998
30.50	1739.6	1685.9	116.69	3.9016	3.026
31.00	1747.1	1693.3	116.71	3.8548	3.052
31.50	1753.9	1700.1	116.67	3.8095	3.076
32.00	1760.0	1706.3	116.74	3.7656	3.098
32.50	1765.7	1712.0	116.75	3.7231	3.118
33.00	1771.0	1717.2	116.78	3.6818	3.136
33.50	1775.7	1721.9	116.76	3.6418	3.153
34.00	1780.2	1726.4	116.78	3.6029	3.169
34.50	1784.3	1730.5	116.79	3.5652	3.184
35.00	1788.1	1734.3	116.80	3.5286	3.197
35.50	1791.7	1737.9	116.79	3.4930	3.210
36.00	1795.0	1741.3	116.81	3.4583	3.222
36.50	1798.1	1744.4	116.81	3.4247	3.233
37.00	1801.1	1747.3	116.83	3.3919	3.244
37.50	1803.9	1750.1	116.85	3.3600	3.254
38.00	1806.4	1752.6	116.85	3.3289	3.263
38.50	1809.0	1755.2	116.86	3.2987	3.272
39.00	1811.2	1757.4	116.88	3.2692	3.281
39.50	1813.6	1759.8	116.89	3.2405	3.289
40.00	1815.8	1762.0	116.89	3.2125	3.297
40.50	1817.8	1764.0	116.89	3.1852	3.304
41.00	1819.8	1766.0	116.91	3.1585	3.312
41.50	1821.6	1767.9	116.94	3.1325	3.318
42.00	1823.5	1769.7	116.90	3.1071	3.325
42.50	1825.3	1771.5	116.92	3.0824	3.332
43.00	1826.5	1772.7	116.94	3.0581	3.336
43.50	1828.3	1774.5	116.93	3.0345	3.343
44.00	1829.9	1776.1	116.93	3.0114	3.348
44.50	1831.4	1777.6	116.94	2.9888	3.354
45.00	1832.9	1779.1	116.96	2.9667	3.359
45.50	1834.2	1780.4	116.97	2.9451	3.364
46.00	1835.7	1781.9	116.98	2.9239	3.370
46.50	1837.0	1783.2	116.99	2.9032	3.375
47.00	1838.3	1784.6	117.00	2.8830	3.380
47.50	1839.6	1785.8	117.01	2.8632	3.384
48.00	1840.8	1787.0	117.02	2.8438	3.388
48.50	1842.0	1788.3	117.14	2.8247	3.393
49.00	1843.2	1789.4	117.02	2.8061	3.397
49.50	1844.5	1790.7	116.84	2.7879	3.402
50.00	1845.5	1791.7	117.01	2.7700	3.406
50.50	1846.7	1792.9	117.04	2.7525	3.410
51.00	1847.7	1794.0	117.05	2.7353	3.414
51.50	1848.8	1795.0	117.06	2.7184	3.418
52.00	1849.8	1796.0	117.07	2.7019	3.422
52.50	1850.8	1797.0	117.08	2.6857	3.425
53.00	1851.9	1798.1	117.09	2.6698	3.429

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
53.50	1852.8	1799.0	117.09	2.6542	3.433
54.00	1853.8	1800.0	117.10	2.6389	3.437
54.50	1854.6	1800.8	117.11	2.6239	3.440
55.00	1855.6	1801.8	117.13	2.6091	3.443
55.50	1856.4	1802.6	117.13	2.5946	3.446
56.00	1857.3	1803.5	117.14	2.5804	3.450
56.50	1858.2	1804.4	117.14	2.5664	3.453
57.00	1859.2	1805.4	117.15	2.5526	3.456
57.50	1859.9	1806.1	117.16	2.5391	3.459
58.00	1860.8	1807.1	117.17	2.5259	3.463
58.50	1861.7	1807.9	117.18	2.5128	3.466
59.00	1862.4	1808.6	117.17	2.5000	3.469
59.50	1863.2	1809.4	117.18	2.4874	3.471
60.00	1863.9	1810.2	117.21	2.4750	3.474
60.50	1864.8	1811.0	117.19	2.4628	3.477
61.00	1865.5	1811.7	117.25	2.4508	3.480
61.50	1866.2	1812.4	117.21	2.4390	3.483
62.00	1867.0	1813.3	117.24	2.4274	3.486
62.50	1867.8	1814.0	117.22	2.4160	3.489
63.00	1868.4	1814.6	117.24	2.4048	3.491
63.50	1838.9	1785.1	117.25	2.3937	3.382
64.00	1811.2	1757.4	117.25	2.3828	3.280
64.50	1791.6	1737.8	117.25	2.3721	3.210
65.00	1776.4	1722.6	117.27	2.3615	3.156
65.50	1764.1	1710.3	117.26	2.3511	3.112
66.00	1754.0	1700.2	117.27	2.3409	3.077
66.50	1745.6	1691.8	117.28	2.3308	3.047
67.00	1738.4	1684.6	117.27	2.3209	3.022
67.50	1732.3	1678.6	117.29	2.3111	3.001
68.00	1727.1	1673.3	117.29	2.3015	2.983
68.50	1722.7	1668.9	117.29	2.2920	2.968
69.00	1718.9	1665.1	117.29	2.2826	2.955
69.50	1715.6	1661.9	117.29	2.2734	2.943
70.00	1712.9	1659.1	117.29	2.2643	2.934
70.50	1710.4	1656.7	117.31	2.2553	2.926
71.00	1708.3	1654.5	117.31	2.2465	2.918
71.50	1706.3	1652.5	117.32	2.2378	2.912
72.00	1704.9	1651.1	117.32	2.2292	2.907
72.50	1703.5	1649.7	117.32	2.2207	2.902
73.00	1702.1	1648.3	117.32	2.2123	2.897
73.50	1701.0	1647.2	117.33	2.2041	2.893
74.00	1699.9	1646.2	117.35	2.1959	2.890
74.50	1699.2	1645.4	117.35	2.1879	2.887
75.00	1698.9	1645.1	117.35	2.1800	2.886
75.50	1698.4	1644.6	117.36	2.1722	2.885
76.00	1698.1	1644.3	117.37	2.1645	2.884
76.50	1697.8	1644.0	117.36	2.1569	2.882
77.00	1697.4	1643.6	117.39	2.1494	2.881
77.50	1697.0	1643.2	117.40	2.1419	2.880
78.00	1696.8	1643.0	117.39	2.1346	2.879
78.50	1696.4	1642.6	117.40	2.1274	2.878

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
79.00	1696.2	1642.4	117.40	2.1203	2.877
79.50	1695.8	1642.0	117.42	2.1132	2.876
80.00	1695.5	1641.7	117.42	2.1063	2.875
80.50	1695.4	1641.6	117.43	2.0994	2.874
81.00	1695.2	1641.5	117.43	2.0926	2.874
81.50	1695.2	1641.5	117.44	2.0859	2.874
82.00	1695.1	1641.3	117.45	2.0793	2.873
82.50	1695.1	1641.3	117.45	2.0727	2.873
83.00	1695.1	1641.3	117.46	2.0663	2.873
83.50	1695.1	1641.3	117.47	2.0599	2.873
84.00	1695.1	1641.3	117.48	2.0536	2.873
84.50	1695.1	1641.3	117.49	2.0473	2.873
85.00	1695.1	1641.3	117.49	2.0412	2.873
85.50	1695.1	1641.3	117.50	2.0351	2.873
86.00	1695.1	1641.3	117.50	2.0291	2.873
86.50	1695.3	1641.5	117.52	2.0231	2.874
87.00	1695.3	1641.5	117.52	2.0172	2.874
87.50	1695.4	1641.6	117.52	2.0114	2.874
88.00	1695.5	1641.7	117.53	2.0057	2.875
88.50	1695.7	1641.9	117.55	2.0000	2.875
89.00	1695.8	1642.0	117.55	1.9944	2.876
89.50	1696.1	1642.3	117.56	1.9888	2.877
90.00	1696.3	1642.5	117.57	1.9833	2.877
90.50	1696.4	1642.6	117.58	1.9779	2.878
91.00	1696.6	1642.8	117.58	1.9725	2.878
91.50	1696.7	1642.9	117.55	1.9672	2.879
92.00	1696.8	1643.0	117.57	1.9620	2.879
92.50	1696.9	1643.1	117.59	1.9568	2.880
93.00	1697.0	1643.2	117.60	1.9516	2.880
93.50	1697.2	1643.4	117.62	1.9465	2.880
94.00	1697.4	1643.6	117.62	1.9415	2.881
94.50	1697.7	1643.9	117.63	1.9365	2.882
95.00	1697.9	1644.1	117.65	1.9316	2.883
95.50	1698.2	1644.4	117.65	1.9267	2.884
96.00	1698.4	1644.6	117.66	1.9219	2.884
96.50	1698.6	1644.8	117.67	1.9171	2.885
97.00	1698.8	1645.0	117.68	1.9124	2.886
97.50	1699.0	1645.2	117.68	1.9077	2.887
98.00	1699.3	1645.5	117.69	1.9031	2.888
98.50	1699.5	1645.7	117.70	1.8985	2.888
99.00	1699.7	1645.9	117.66	1.8939	2.889
99.50	1700.0	1646.2	117.69	1.8894	2.890
100.00	1700.2	1646.4	117.70	1.8850	2.891
100.50	1700.5	1646.7	117.72	1.8806	2.892
101.00	1700.8	1647.0	117.73	1.8762	2.893
101.50	1701.0	1647.3	117.71	1.8719	2.894
102.00	1701.3	1647.5	117.73	1.8676	2.894
102.50	1702.0	1648.3	117.74	1.8634	2.897
103.00	1702.8	1649.0	117.76	1.8592	2.900
103.50	1703.3	1649.5	117.76	1.8551	2.901
104.00	1703.8	1650.0	117.79	1.8510	2.903

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
104.50	1704.1	1650.4	117.77	1.8469	2.904
105.00	1704.6	1650.9	117.78	1.8429	2.906
105.50	1705.0	1651.2	117.79	1.8389	2.907
106.00	1705.3	1651.5	117.80	1.8349	2.908
106.50	1705.7	1651.9	117.82	1.8310	2.909
107.00	1706.0	1652.2	117.81	1.8271	2.910
107.50	1706.2	1652.5	117.81	1.8233	2.911
108.00	1706.5	1652.7	117.82	1.8194	2.912
108.50	1706.7	1653.0	117.83	1.8157	2.913
109.00	1707.0	1653.2	117.84	1.8119	2.914
109.50	1707.3	1653.5	117.85	1.8082	2.915
110.00	1707.5	1653.7	117.85	1.8045	2.916
110.50	1707.8	1654.0	117.87	1.8009	2.916
111.00	1708.0	1654.2	117.87	1.7973	2.917
111.50	1708.3	1654.5	117.89	1.7937	2.918
112.00	1708.6	1654.8	117.89	1.7902	2.919
112.50	1708.8	1655.1	117.90	1.7867	2.920
113.00	1709.1	1655.3	117.92	1.7832	2.921
113.50	1709.3	1655.6	117.91	1.7797	2.922
114.00	1709.5	1655.7	117.90	1.7763	2.922
114.50	1709.8	1656.0	117.92	1.7729	2.923
115.00	1709.9	1656.1	117.92	1.7696	2.924
115.50	1710.2	1656.4	117.94	1.7662	2.925
116.00	1710.4	1656.6	117.95	1.7629	2.925
116.50	1710.6	1656.8	117.94	1.7597	2.926
117.00	1710.9	1657.1	117.96	1.7564	2.927
117.50	1711.1	1657.3	117.98	1.7532	2.928
118.00	1711.3	1657.5	117.97	1.7500	2.928
118.50	1711.4	1657.7	117.97	1.7468	2.929
119.00	1711.6	1657.8	117.99	1.7437	2.930
119.50	1711.9	1658.1	118.00	1.7406	2.930
120.00	1712.0	1658.2	118.00	1.7375	2.931
120.50	1712.3	1658.5	118.02	1.7344	2.932
121.00	1712.5	1658.7	118.01	1.7314	2.933
121.50	1712.7	1658.9	118.03	1.7284	2.933
122.00	1712.9	1659.1	118.04	1.7254	2.934
122.50	1713.0	1659.3	118.05	1.7224	2.935
123.00	1713.2	1659.4	118.05	1.7195	2.935
123.50	1713.5	1659.7	118.06	1.7166	2.936
124.00	1713.6	1659.8	118.07	1.7137	2.937
124.50	1713.8	1660.0	118.07	1.7108	2.937
125.00	1714.0	1660.2	118.09	1.7080	2.938
125.50	1714.1	1660.3	118.09	1.7052	2.938
126.00	1714.3	1660.5	118.10	1.7024	2.939
126.50	1714.6	1660.8	118.11	1.6996	2.940
127.00	1714.6	1660.8	118.12	1.6969	2.940
127.50	1714.8	1661.0	118.13	1.6941	2.941
128.00	1715.0	1661.2	118.14	1.6914	2.941
128.50	1715.2	1661.4	118.15	1.6887	2.942
129.00	1715.4	1661.6	118.18	1.6860	2.943
129.50	1715.6	1661.8	118.24	1.6834	2.943

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15  
 -----

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
130.00	1715.7	1661.9	118.19	1.6808	2.944
130.50	1716.0	1662.2	118.16	1.6782	2.945
131.00	1716.1	1662.4	118.15	1.6756	2.945
131.50	1716.3	1662.5	118.15	1.6730	2.946
132.00	1716.5	1662.7	118.15	1.6705	2.946
132.50	1716.7	1662.9	118.18	1.6679	2.947
133.00	1716.9	1663.1	118.20	1.6654	2.948
133.50	1717.1	1663.3	118.21	1.6629	2.948
134.00	1717.3	1663.5	118.22	1.6604	2.949
134.50	1717.5	1663.7	118.23	1.6580	2.950
135.00	1717.7	1663.9	118.24	1.6556	2.950
135.50	1717.8	1664.0	118.25	1.6531	2.951
136.00	1718.0	1664.2	118.25	1.6507	2.952
136.50	1718.2	1664.4	118.26	1.6484	2.952
137.00	1718.3	1664.5	118.27	1.6460	2.953
137.50	1718.4	1664.6	118.28	1.6436	2.953
138.00	1718.7	1664.9	118.28	1.6413	2.954
138.50	1718.8	1665.0	118.29	1.6390	2.954
139.00	1719.0	1665.2	118.30	1.6367	2.955
139.50	1719.2	1665.4	118.31	1.6344	2.956
140.00	1719.3	1665.5	118.32	1.6321	2.956
140.50	1719.5	1665.7	118.33	1.6299	2.957
141.00	1719.7	1665.9	118.33	1.6277	2.957
141.50	1719.8	1666.0	118.34	1.6254	2.958
142.00	1719.9	1666.1	118.35	1.6232	2.958
142.50	1720.1	1666.3	118.37	1.6211	2.959
143.00	1720.3	1666.5	118.36	1.6189	2.959
143.50	1720.5	1666.7	118.37	1.6167	2.960
144.00	1720.6	1666.8	118.38	1.6146	2.960
144.50	1720.8	1667.0	118.39	1.6125	2.961
145.00	1720.9	1667.1	118.40	1.6103	2.962
145.50	1721.2	1667.4	118.40	1.6082	2.962
146.00	1721.4	1667.6	118.41	1.6062	2.963
146.50	1721.4	1667.6	118.44	1.6041	2.963
147.00	1721.7	1667.9	118.44	1.6020	2.964
147.50	1721.9	1668.1	118.42	1.6000	2.965
148.00	1722.0	1668.2	118.43	1.5980	2.965
148.50	1722.2	1668.4	118.45	1.5960	2.966
149.00	1722.3	1668.5	118.45	1.5940	2.966
149.50	1722.4	1668.7	118.45	1.5920	2.967
150.00	1722.6	1668.8	118.47	1.5900	2.967
150.50	1722.7	1668.9	118.48	1.5880	2.968
151.00	1722.9	1669.1	118.49	1.5861	2.968
151.50	1723.0	1669.2	118.50	1.5842	2.969
152.00	1723.2	1669.4	118.50	1.5822	2.969
152.50	1723.4	1669.6	118.51	1.5803	2.970
153.00	1723.4	1669.7	118.52	1.5784	2.970
153.50	1723.6	1669.8	118.53	1.5765	2.971
154.00	1723.7	1669.9	118.54	1.5747	2.971
154.50	1723.8	1670.0	118.55	1.5728	2.971
155.00	1724.0	1670.2	118.54	1.5710	2.972

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
155.50	1724.1	1670.3	118.55	1.5691	2.973
156.00	1724.2	1670.4	118.57	1.5673	2.973
156.50	1724.4	1670.6	118.57	1.5655	2.973
157.00	1724.5	1670.7	118.58	1.5637	2.974
157.50	1724.5	1670.8	118.59	1.5619	2.974
158.00	1724.7	1670.9	118.60	1.5601	2.975
158.50	1724.9	1671.1	118.61	1.5584	2.975
159.00	1725.0	1671.2	118.62	1.5566	2.975
159.50	1725.1	1671.3	118.61	1.5549	2.976
160.00	1725.2	1671.4	118.62	1.5531	2.976
160.50	1725.4	1671.6	118.64	1.5514	2.977
161.00	1725.5	1671.7	118.65	1.5497	2.977
161.50	1725.7	1671.9	118.66	1.5480	2.978
162.00	1725.8	1672.0	118.67	1.5463	2.978
162.50	1725.9	1672.1	118.68	1.5446	2.979
163.00	1726.1	1672.3	118.68	1.5429	2.979
163.50	1726.1	1672.3	118.70	1.5413	2.980
164.00	1726.3	1672.5	118.72	1.5396	2.980
164.50	1726.4	1672.6	118.73	1.5380	2.980
165.00	1726.6	1672.8	118.71	1.5364	2.981
165.50	1726.8	1673.0	118.70	1.5347	2.982
166.00	1726.9	1673.1	118.71	1.5331	2.982
166.50	1727.1	1673.3	118.73	1.5315	2.983
167.00	1727.1	1673.4	118.74	1.5299	2.983
167.50	1727.3	1673.5	118.75	1.5284	2.984
168.00	1727.4	1673.6	118.75	1.5268	2.984
168.50	1727.5	1673.7	118.77	1.5252	2.984
169.00	1727.6	1673.8	118.78	1.5237	2.984
169.50	1727.7	1673.9	118.78	1.5221	2.985
170.00	1727.8	1674.0	118.79	1.5206	2.985
170.50	1728.0	1674.2	118.80	1.5191	2.986
171.00	1728.1	1674.3	118.81	1.5175	2.986
171.50	1728.2	1674.4	118.81	1.5160	2.987
172.00	1728.4	1674.6	118.83	1.5145	2.987
172.50	1728.5	1674.7	118.84	1.5130	2.988
173.00	1728.6	1674.8	118.86	1.5116	2.988
173.50	1728.7	1674.9	118.84	1.5101	2.989
174.00	1728.9	1675.1	118.85	1.5086	2.989
174.50	1729.0	1675.2	118.86	1.5072	2.989
175.00	1729.1	1675.3	118.88	1.5057	2.990
175.50	1729.2	1675.5	118.89	1.5043	2.990
176.00	1729.3	1675.5	118.90	1.5028	2.991
176.50	1729.4	1675.6	118.91	1.5014	2.991
177.00	1729.6	1675.8	118.92	1.5000	2.991
177.50	1729.7	1675.9	118.92	1.4986	2.992
178.00	1729.7	1676.0	118.93	1.4972	2.992
178.50	1729.8	1676.0	118.95	1.4958	2.992
179.00	1730.0	1676.2	118.95	1.4944	2.993
179.50	1730.1	1676.3	118.96	1.4930	2.993
180.00	1730.2	1676.4	118.97	1.4917	2.993
180.50	1730.3	1676.5	118.98	1.4903	2.994

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
181.00	1730.4	1676.6	118.99	1.4890	2.994
181.50	1730.5	1676.7	119.02	1.4876	2.995
182.00	1730.7	1676.9	118.99	1.4863	2.995
182.50	1730.8	1677.0	118.99	1.4849	2.996
183.00	1730.8	1677.0	119.00	1.4836	2.996
183.50	1731.0	1677.2	119.02	1.4823	2.996
184.00	1731.1	1677.3	119.03	1.4810	2.997
184.50	1731.2	1677.4	119.04	1.4797	2.997
185.00	1731.2	1677.4	119.05	1.4784	2.997
185.50	1731.3	1677.5	119.05	1.4771	2.998
186.00	1731.5	1677.7	119.07	1.4758	2.998
186.50	1731.5	1677.7	119.08	1.4745	2.998
187.00	1731.7	1677.9	119.09	1.4733	2.999
187.50	1731.7	1677.9	119.12	1.4720	2.999
188.00	1731.8	1678.0	119.10	1.4707	2.999
188.50	1731.9	1678.1	119.10	1.4695	3.000
189.00	1732.0	1678.2	119.11	1.4683	3.000
189.50	1732.2	1678.4	119.13	1.4670	3.000
190.00	1732.2	1678.4	119.13	1.4658	3.000
190.50	1732.4	1678.6	119.14	1.4646	3.001
191.00	1732.4	1678.6	119.15	1.4634	3.001
191.50	1732.5	1678.7	119.17	1.4621	3.001
192.00	1732.5	1678.7	119.18	1.4609	3.002
192.50	1732.7	1678.9	119.18	1.4597	3.002
193.00	1732.8	1679.0	119.18	1.4585	3.002
193.50	1732.9	1679.1	119.19	1.4574	3.003
194.00	1733.0	1679.2	119.20	1.4562	3.003
194.50	1733.1	1679.3	119.22	1.4550	3.004
195.00	1733.3	1679.5	119.21	1.4538	3.004
195.50	1733.4	1679.6	119.22	1.4527	3.005
196.00	1733.5	1679.7	119.24	1.4515	3.005
196.50	1733.6	1679.8	119.24	1.4504	3.005
197.00	1733.8	1680.0	119.25	1.4492	3.006
197.50	1733.9	1680.1	119.26	1.4481	3.006
198.00	1733.9	1680.1	119.28	1.4470	3.006
198.50	1734.0	1680.2	119.29	1.4458	3.007
199.00	1734.2	1680.4	119.26	1.4447	3.007
199.50	1734.3	1680.5	119.27	1.4436	3.008
200.00	1734.4	1680.7	119.28	1.4425	3.008
200.50	1734.5	1680.7	119.30	1.4414	3.009
201.00	1734.6	1680.8	119.30	1.4403	3.009
201.50	1734.7	1680.9	119.32	1.4392	3.009
202.00	1734.7	1680.9	119.32	1.4381	3.009
202.50	1734.9	1681.1	119.33	1.4370	3.010
203.00	1734.9	1681.1	119.34	1.4360	3.010
203.50	1735.1	1681.3	119.36	1.4349	3.010
204.00	1735.1	1681.3	119.36	1.4338	3.010
204.50	1735.1	1681.3	119.37	1.4328	3.011
205.00	1735.2	1681.4	119.37	1.4317	3.011
205.50	1735.4	1681.6	119.39	1.4307	3.011
206.00	1735.4	1681.6	119.39	1.4296	3.011

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
206.50	1735.5	1681.7	119.40	1.4286	3.012
207.00	1735.7	1681.9	119.41	1.4275	3.013
207.50	1735.6	1681.8	119.42	1.4265	3.012
208.00	1735.8	1682.0	119.43	1.4255	3.013
208.50	1736.0	1682.2	119.44	1.4245	3.014
209.00	1736.0	1682.2	119.45	1.4234	3.014
209.50	1736.1	1682.4	119.46	1.4224	3.014
210.00	1736.1	1682.4	119.46	1.4214	3.014
210.50	1736.1	1682.4	119.47	1.4204	3.014
211.00	1736.2	1682.4	119.49	1.4194	3.014
211.50	1736.4	1682.6	119.49	1.4184	3.015
212.00	1736.4	1682.6	119.50	1.4175	3.015
212.50	1736.5	1682.7	119.51	1.4165	3.015
213.00	1736.6	1682.8	119.52	1.4155	3.016
213.50	1736.7	1682.9	119.53	1.4145	3.016
214.00	1736.8	1683.0	119.55	1.4136	3.017
214.50	1736.9	1683.1	119.55	1.4126	3.017
215.00	1736.9	1683.1	119.61	1.4116	3.017
215.50	1737.0	1683.2	119.57	1.4107	3.017
216.00	1737.1	1683.3	119.56	1.4097	3.017
216.50	1737.1	1683.3	119.57	1.4088	3.017
217.00	1737.1	1683.3	119.57	1.4078	3.018
217.50	1737.3	1683.5	119.55	1.4069	3.018
218.00	1737.4	1683.6	119.54	1.4060	3.018
218.50	1737.5	1683.7	119.53	1.4050	3.019
219.00	1737.5	1683.8	119.59	1.4041	3.019
219.50	1737.7	1683.9	119.61	1.4032	3.020
220.00	1737.7	1683.9	119.62	1.4023	3.020
220.50	1737.8	1684.0	119.63	1.4014	3.020
221.00	1738.0	1684.2	119.64	1.4005	3.021
221.50	1738.0	1684.2	119.64	1.3995	3.021
222.00	1738.1	1684.3	119.66	1.3986	3.021
222.50	1738.1	1684.3	119.66	1.3978	3.021
223.00	1738.2	1684.4	119.67	1.3969	3.021
223.50	1738.3	1684.5	119.68	1.3960	3.022
224.00	1738.4	1684.6	119.69	1.3951	3.022
224.50	1738.4	1684.6	119.69	1.3942	3.022
225.00	1738.6	1684.8	119.70	1.3933	3.023
225.50	1738.6	1684.9	119.71	1.3925	3.023
226.00	1738.7	1684.9	119.72	1.3916	3.023
226.50	1738.8	1685.0	119.73	1.3907	3.023
227.00	1738.9	1685.1	119.74	1.3899	3.024
227.50	1739.1	1685.3	119.74	1.3890	3.024
228.00	1739.1	1685.3	119.75	1.3882	3.024
228.50	1739.2	1685.5	119.76	1.3873	3.025
229.00	1739.3	1685.5	119.77	1.3865	3.025
229.50	1739.3	1685.5	119.79	1.3856	3.025
230.00	1739.4	1685.6	119.79	1.3848	3.026
230.50	1739.5	1685.7	119.79	1.3839	3.026
231.00	1739.5	1685.7	119.80	1.3831	3.026
231.50	1739.6	1685.8	119.82	1.3823	3.026

-----  
 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10599 DST#6 ALLEN A-1 WOOLSEY PETL.CORP.

DATE: 02/02/98

TIME: 21:08:15  
 -----

	Time	Pressure PSig	delta P PSig	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
	232.00	1739.6	1685.9		119.83	1.3815	3.026
	232.50	1739.9	1686.1		119.83	1.3806	3.027
	233.00	1739.9	1686.1		119.82	1.3798	3.027
	233.50	1739.9	1686.1		119.83	1.3790	3.027
	234.00	1739.9	1686.1		119.84	1.3782	3.027
	234.50	1739.9	1686.1		119.85	1.3774	3.027
	235.00	1739.9	1686.1		119.85	1.3766	3.027
	235.50	1739.9	1686.1		119.86	1.3758	3.027
	236.00	1740.0	1686.2		119.88	1.3750	3.028
	236.50	1740.0	1686.2		119.89	1.3742	3.028
	237.00	1740.1	1686.3		119.90	1.3734	3.028
	237.50	1740.1	1686.3		119.90	1.3726	3.028
	238.00	1740.2	1686.4		119.92	1.3718	3.028
	238.50	1740.2	1686.4		119.93	1.3711	3.028
	239.00	1740.3	1686.5		119.92	1.3703	3.028
	239.50	1740.3	1686.5		119.93	1.3695	3.029
	240.00	1740.3	1686.5		119.94	1.3687	3.029
	240.50	1740.4	1686.6		119.95	1.3680	3.029
	241.00	1740.4	1686.6		119.96	1.3672	3.029
	241.50	1740.6	1686.8		119.97	1.3665	3.030
	242.00	1740.6	1686.8		119.98	1.3657	3.030
	242.50	1740.7	1686.9		119.99	1.3649	3.030
	243.00	1740.8	1687.0		119.99	1.3642	3.030
	243.50	1740.8	1687.0		120.01	1.3634	3.030
	244.00	1740.8	1687.1		120.02	1.3627	3.031
	244.50	1740.9	1687.1		120.02	1.3620	3.031
	245.00	1741.0	1687.2		120.03	1.3612	3.031
	245.50	1741.0	1687.2		120.05	1.3605	3.031
	246.00	1741.1	1687.3		120.06	1.3598	3.031
	246.50	1741.1	1687.3		120.06	1.3590	3.031
***** End Shut-in 2	247.00	1741.2	1687.4		120.04	1.3583	3.032
***** Final Hydro.	523.50	2437.8	0.0		120.44		

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

No 10599

Well Name & No. <u>Allen A-1</u>	Test No. <u>6</u>	Date <u>2-2-98</u>
Company <u>WOOLSEY Petr. Corp.</u>	Zone Tested <u>J102A</u>	
Address <u>Wichita Ks. 67202</u>	Elevation <u>1719</u> KB <u>1706</u> GL	
Co. Rep / Geo. <u>MIKHAL MAUNE cont. DUKE DRUG #7</u>	Est. Ft. of Pay <u>6</u>	Por. <u>10</u> %
Location: Sec. <u>3</u> Twp. <u>34S</u> Rge. <u>13W</u>	Co. <u>BARBER</u>	State <u>Ks.</u>
No. of Copies <u>6</u>	Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>—</u>
	Evaluation (Y, N) <u>—</u>	

Interval Tested <u>5056 - 5085'</u>	Initial Str Wt./Lbs. <u>67,000</u>	Unseated Str Wt./Lbs. <u>68,000</u>
Anchor Length <u>29'</u>	Wt. Set Lbs. <u>30,000</u>	Wt. Pulled Loose/Lbs. <u>75,000</u>
Top Packer Depth <u>5051'</u>	Tool Weight <u>2100 #</u>	
Bottom Packer Depth <u>5056'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>5085'</u>	Wt. Pipe Run <u>None</u>	Drill Collar Run <u>240</u>
Mud Wt. <u>9.2</u> LCM <u>4#</u> Vis. <u>54</u> WL <u>9.2</u> cc.	Drill Pipe Size <u>4 1/2" x .it.</u>	Ft. Run <u>4797'</u>
Blow Description <u>IF: Strong below. Btm of bucket in 4 mins.</u>		
<u>FSI: Weak below after 20 mins (1/2")</u>		
<u>FF: Strong below. Btm of bucket in 10 secs.</u>		
<u>FSI: Weak below, (1-4") GTS 55 mins, in to FSI:</u>		

Recovery — Total Feet <u>120'</u>	Fluid GIP <u>4719'</u>	Ft. in DC <u>120</u>	Ft. in DP <u>—</u>
Rec. <u>120</u> Feet Of <u>H.O.C.M.</u>	%gas <u>40</u>	%oil <u>37</u>	%water <u>57</u>
Rec. <u>—</u> Feet Of <u>—</u>	%gas <u>—</u>	%oil <u>—</u>	%water <u>—</u>
Rec. <u>—</u> Feet Of <u>—</u>	%gas <u>—</u>	%oil <u>—</u>	%water <u>—</u>
Rec. <u>—</u> Feet Of <u>—</u>	%gas <u>—</u>	%oil <u>—</u>	%water <u>—</u>
Rec. <u>—</u> Feet Of <u>—</u>	%gas <u>—</u>	%oil <u>—</u>	%water <u>—</u>

BHT <u>120</u> °F Gravity <u>N/A</u>	°API D@ <u>—</u>	°F Corrected Gravity <u>N/A</u>	°API <u>—</u>
RW <u>N.C.</u> @ <u>—</u> °F Chlorides <u>4000</u> ppm	Recovery Chlorides <u>4,000</u> ppm	System Chlorides <u>—</u> ppm	
(A) Initial Hydrostatic Mud <u>2499</u>   <u>2457</u> PSI	Recorder No. <u>10248</u>	T-Started <u>2108</u>	
(B) First Initial Flow Pressure <u>34</u>   <u>31</u> PSI	(depth) <u>5082'</u>	T-Open <u>2310</u>	
(C) First Final Flow Pressure <u>34</u>   <u>34</u> PSI	Recorder No. <u>2342</u>	T-Pulled <u>0544</u>	
(D) Initial Shut-in Pressure <u>1906</u>   <u>1912</u> PSI	(depth) <u>5062'</u>	T-Out <u>0820</u>	
(E) Second Initial Flow Pressure <u>44</u>   <u>29</u> PSI	Recorder No. <u>—</u>		
(F) Second Final Flow Pressure <u>57</u>   <u>54</u> PSI	(depth) <u>—</u>		
(G) Final Shut-in Pressure <u>1753</u>   <u>1741</u> PSI	Initial Opening <u>30</u>	Test <input checked="" type="checkbox"/> <u>800</u>	
(H) Final Hydrostatic Mud <u>2420</u>   <u>2438</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/> <u>200</u>	
<u>AK-1 ALPINE</u>	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/> <u>50</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 Michael K. Maune

Final Shut-in 240 Straddle —  
 Circ. Sub —  
 Sampler —  
 Extra Packer —  
 Elect. Rec.  150  
 Other —

WELL NAME \_\_\_\_\_ DST # \_\_\_\_\_ RECORDER # \_\_\_\_\_

INIT. HYD. MUD. \_\_\_\_\_ FINAL HYD. MUD \_\_\_\_\_

INITIAL FLOW MINUTES	INITIAL SHUTIN MINUTES	FINAL FLOW MINUTES	FINAL SHUTIN MINUTES
INTERVAL	INTERVAL	INTERVAL	INTERVAL
.015	17	.643	718
.055	62	.643	718
.099	110	.645	721
.145	164	.645	721
.192	218	.648	724
.236	267	.648	724
.272	307	.655	732
.314	354	.655	732
.360	406	.655	732
.395	445	.655	732
.428	481	.655	732
.456	506	.655	732
.476	535	.655	732
.499	560	.655	732
.522	585	.665	743
.540	605	.665	
.555	622	.665	
.569	637	.665	
.581	650	.665	
.591	661	.665	
.601	675	.665	
.606	678	.665	
.611	684	.665	
.611	684	.665	
.628	702	.665	
.634	709	.665	
.638	713	.665	

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27