

WELL NAME: Malin "B-1"
COMPANY: Anadarko Petroleum Corporation
LOCATION: 3-33S-32W
Seward County, Kansas
DATE: 1/7/98

TRILOBITE TESTING L.L.C.

OPERATOR : Anadarko Pet. Corp.

DATE 1-4-98

WELL NAME: Malin "B-1"

KB 2815.00 ft

TICKET NO: 10813 DST #1

LOCATION : 3-33S-32W

GR 2802.00 ft

FORMATION: MORROW

INTERVAL : 5649.00 To 5675.00 ft

TD 5675.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13630	13630	ALPINE			PF Fr. 1050 to 1120 hr
SI 60 Range(Psi)	4625.0	4625.0	5000.0	0.0	0.0	IS Fr. 1120 to 1220 hr
SF 60 Clock(hrs)	12 HR	12 HR	24 HR			SF Fr. 1220 to 1320 hr
FS 120 Depth(ft)	5672.0	5672.0	5651.0	0.0	0.0	FS Fr. 1320 to 1520 hr

	Field	1	2	3	4	
A. Init Hydro	2817.0	2841.0	2799.0	0.0	0.0	T STARTED 0845 hr
B. First Flow	56.0	70.0	44.0	0.0	0.0	T ON BOTM 1046 hr
B1. Final Flow	239.0	249.0	277.0	0.0	0.0	T OPEN 1050 hr
C. In Shut-in	1821.0	1823.0	1839.0	0.0	0.0	T PULLED 1520 hr
D. Init Flow	289.0	292.0	267.0	0.0	0.0	T OUT 2000 hr
E. Final Flow	348.0	349.0	362.0	0.0	0.0	
F. Fl Shut-in	1821.0	1806.0	1825.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2709.0	2705.0	2744.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 24000.00 lbs
						Wt Pulled Loose 25000.00 lbs
						Initial Str Wt 114000.00 lbs
						Unseated Str Wt 114000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 699.00 ft
						D.P. Length 4951.00 ft

RECOVERY

Tot Fluid 15.00 ft of 15.00 ft in DC and 0.00 ft in DP
 5635.00 ft of Gas in pipe
 15.00 ft of Mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 8800.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial flow-
 Strong off bottom immediately; gas to
 surface in 11 minutes guaged 674,000
 cfpd
 Intitial shutin-
 no blow
 Final flow-
 guaged 1,346,000 cfpd
 Final shutin-
 no blow

SAMPLES: ONE

SENT TO: CARAWAY

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/c
Vis.	54.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop Y	60.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	114.00 F
Hole Condition	GOOD
% Porosity	15.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Dan Eisenhauer
Contr.	Cheyenne
Rig #	7
Unit #	
Pump T.	

Test Successful: Y

GAS RECOVERY

COMPANY: Anadarko Pet. Corp.

DATE: 1-4-98

WELL NAME: Malin "B-1"

KB Elev: 2815.00 ft TICKET #10813 DST #1

WELL LOCATION: 3-33S-32W

GR Elev: 2802.00 ft FORMATION: MORROW

INTERVAL Fr.: 5649.00 To 5675.00 T.D.: 5675.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH MERLA ORFICE

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.75	8	0	227000.0
20	0.75	22	0	424000.0
25	0.75	32	0	546000.0
30	0.75	43	0	674000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	1.25	14	0	980000.0
20	1.25	18	0	1146000.0
30	1.25	19	0	1187000.0
40	1.25	21	0	1270000.0
50	1.25	22	0	1316000.0
60	1.25	23	0	1346000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Malin "B-1"

LOCATION : 3-33S-32W

TICKET No. 10813 D.S.T. No. 1 DATE 1-4-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 57

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands12 Single Total 699

D.P. ABOVE TOOLS.Stands80 Single Total 4951

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5707

TOTAL DEPTH 5675

TOTAL DRILL PIPE ABOVE K.B. 32

REMARKS:

SAMPLER DATA

TOTAL VOL. 5000 ML

TOTAL VOL. REC. 0 ML

P.S.I. 1250

TEMP. 114 F.

OIL 0 ML

MUD 0 ML

WATER 0 ML

GAS 18.5 CUBIC FT.

PIT RW 2.1 OHMS AT 58 F. 3,400 PPM.

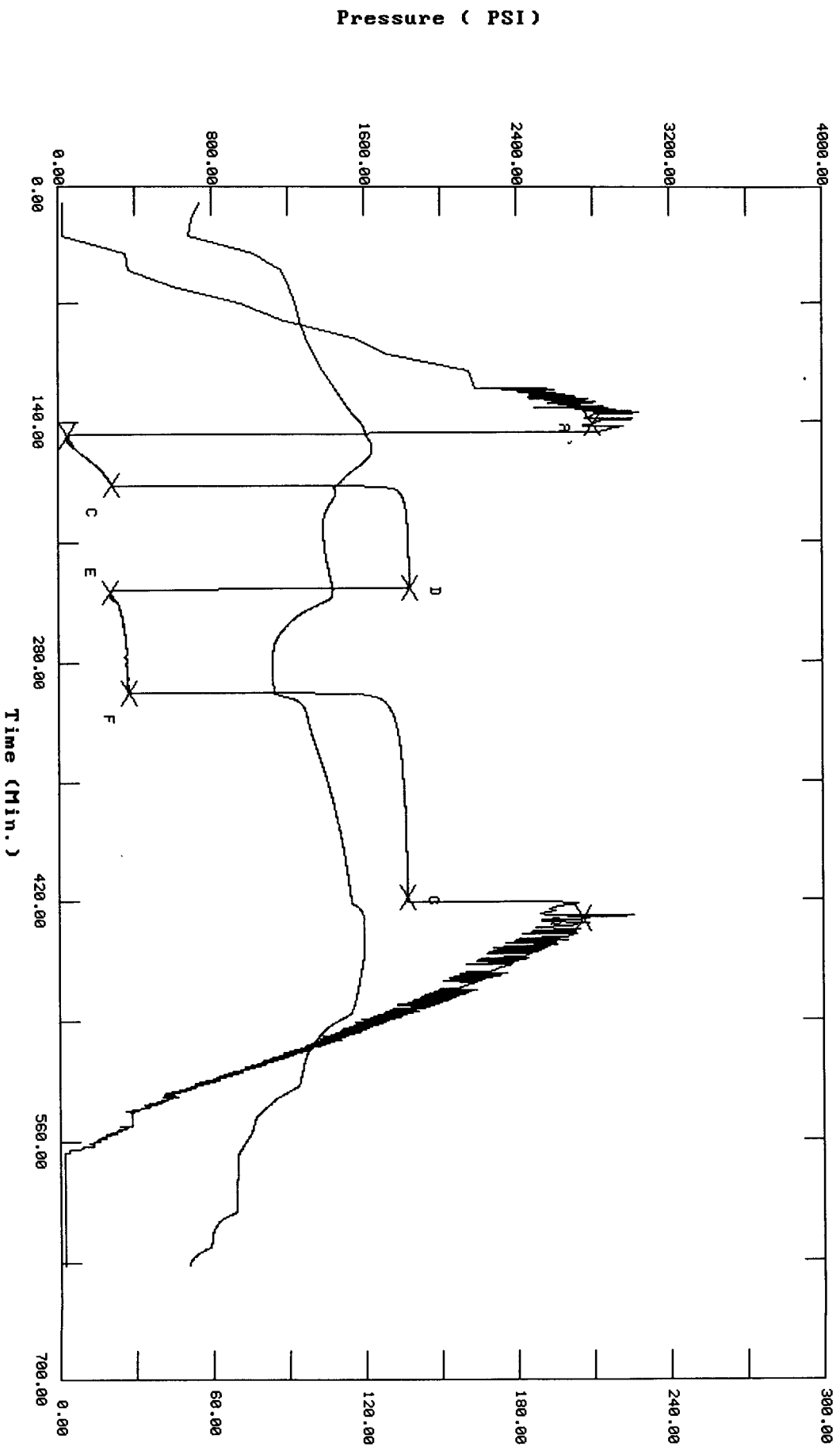
REC. RW 0.80 OHMS AT 59 F. 8,800 PPM.

GRAVITY --- AT 60 F.

P.O. SUB TOP OF TOOL	5618
C.O. SUB DOUBLE PIN	5619
S.I. TOOL H&T	5624
SAMPLER	5627
HMV H&T	5632
JARS WTC #414	5638
SAFETY JOINT BOWEN	5640
PACKER SPARTON	5645
PACKER SHALE	5649
DEPTH	
STUBB REC SUB	5651
ANCHOR ALPINE	5651
T.C.	
DEPTH	
PU SUB	5656
AK-1	5672
17 FT. PERFS	5673
BULLNOSE	
T.D.	5675

TEST HISTORY

10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.



Flag Points

t(Min.)	P(PSI)
A: 0.00	2799.15
B: 0.00	44.46
C: 28.75	277.06
D: 60.00	1839.08
E: 0.00	267.40
F: 58.75	362.31
G: 120.25	1825.12
H: 0.00	2744.51

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98

TIME: 08:22:13

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	141.25	2799.1	0.0	119.05		
***** Start Flow 1	0.00	44.5	0.0	120.94		
	0.25	43.6	-0.9	121.06		
	0.50	43.9	-0.6	121.18		
	0.75	43.8	-0.7	121.28		
	1.00	43.1	-1.4	121.41		
	1.25	43.4	-1.1	121.54		
	1.50	43.6	-0.9	121.65		
	1.75	43.8	-0.6	121.77		
	2.00	44.6	0.1	121.88		
	2.25	44.7	0.2	121.98		
	2.50	45.4	0.9	122.10		
	2.75	46.6	2.2	122.18		
	3.00	47.7	3.2	122.28		
	3.25	49.0	4.5	122.38		
	3.50	50.8	6.4	122.46		
	3.75	53.3	8.9	122.54		
	4.00	53.8	9.3	122.63		
	4.25	56.2	11.7	122.70		
	4.50	59.0	14.5	122.76		
	4.75	60.7	16.2	122.84		
	5.00	63.0	18.5	122.90		
	5.25	65.4	21.0	122.92		
	5.50	68.5	24.0	122.97		
	5.75	71.2	26.7	123.03		
	6.00	74.7	30.2	123.05		
	6.25	78.0	33.5	123.09		
	6.50	78.8	34.3	123.12		
	6.75	83.5	39.1	123.14		
	7.00	85.4	40.9	123.16		
	7.25	88.9	44.4	123.17		
	7.50	89.4	45.0	123.17		
	7.75	92.0	47.5	123.16		
	8.00	94.0	49.6	123.16		
	8.25	96.6	52.2	123.15		
	8.50	98.2	53.7	123.13		
	8.75	101.9	57.4	123.11		
	9.00	104.6	60.2	123.08		
	9.25	107.3	62.8	123.04		
	9.50	110.4	65.9	122.99		
	9.75	111.1	66.6	122.94		
	10.00	112.7	68.3	122.89		
	10.25	117.0	72.6	122.81		
	10.50	119.6	75.1	122.75		
	10.75	122.5	78.1	122.65		
	11.00	127.3	82.9	122.56		
	11.25	128.9	84.4	122.46		
	11.50	131.3	86.9	122.36		
	11.75	133.7	89.2	122.26		
	12.00	138.0	93.6	122.15		
	12.25	140.8	96.3	122.01		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
12.50	145.9	101.4	121.89		
12.75	152.1	107.7	121.75		
13.00	149.7	105.2	121.61		
13.25	153.9	109.4	121.46		
13.50	155.0	110.6	121.29		
13.75	156.6	112.1	121.14		
14.00	166.2	121.8	120.97		
14.25	162.8	118.3	120.80		
14.50	166.1	121.7	120.62		
14.75	168.8	124.4	120.45		
15.00	169.4	125.0	120.27		
15.25	172.7	128.2	120.08		
15.50	177.3	132.9	119.91		
15.75	180.2	135.7	119.72		
16.00	180.9	136.5	119.53		
16.25	184.9	140.4	119.33		
16.50	187.2	142.8	119.14		
16.75	188.4	143.9	118.93		
17.00	196.3	151.9	118.71		
17.25	196.6	152.1	118.54		
17.50	201.3	156.9	118.33		
17.75	202.3	157.8	118.10		
18.00	202.8	158.3	117.89		
18.25	208.7	164.2	117.65		
18.50	210.3	165.8	117.42		
18.75	211.1	166.7	117.19		
19.00	216.5	172.1	116.94		
19.25	218.6	174.2	116.68		
19.50	219.2	174.7	116.45		
19.75	222.6	178.2	116.19		
20.00	223.0	178.6	115.93		
20.25	221.5	177.1	115.69		
20.50	225.9	181.4	115.44		
20.75	231.1	186.7	115.20		
21.00	233.6	189.1	114.96		
21.25	235.1	190.6	114.74		
21.50	236.1	191.7	114.51		
21.75	238.4	194.0	114.32		
22.00	239.5	195.1	114.10		
22.25	239.0	194.5	113.89		
22.50	240.1	195.6	113.71		
22.75	243.0	198.5	113.52		
23.00	246.3	201.8	113.34		
23.25	246.5	202.0	113.16		
23.50	247.0	202.5	112.98		
23.75	250.0	205.6	112.80		
24.00	254.3	209.8	112.63		
24.25	251.8	207.3	112.46		
24.50	254.7	210.3	112.30		
24.75	257.0	212.5	112.17		
25.00	258.4	213.9	112.00		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.25	259.4	214.9	111.84		
	25.50	262.2	217.7	111.68		
	25.75	263.2	218.7	111.53		
	26.00	263.7	219.2	111.37		
	26.25	265.9	221.4	111.20		
	26.50	268.0	223.5	111.05		
	26.75	269.2	224.7	110.88		
	27.00	269.8	225.3	110.71		
	27.25	271.8	227.3	110.53		
	27.50	272.8	228.3	110.34		
	27.75	273.7	229.2	110.17		
	28.00	273.8	229.3	109.96		
	28.25	274.6	230.2	109.74		
	28.50	276.1	231.6	109.52		
***** End Flow 1	28.75	277.1	232.6	109.28		
***** Start Shutin 1	0.00	277.1	0.0	109.28	0.0000	0.077
	0.25	890.3	613.2	109.03	116.0000	0.793
	0.50	1347.4	1070.3	108.75	58.5000	1.815
	0.75	1561.9	1284.9	108.49	39.3333	2.440
	1.00	1656.4	1379.3	108.28	29.7500	2.744
	1.25	1697.2	1420.1	108.16	24.0000	2.880
	1.50	1719.6	1442.6	108.12	20.1667	2.957
	1.75	1734.2	1457.1	108.12	17.4286	3.007
	2.00	1744.8	1467.7	108.18	15.3750	3.044
	2.25	1752.8	1475.8	108.26	13.7778	3.072
	2.50	1759.3	1482.3	108.37	12.5000	3.095
	2.75	1764.7	1487.6	108.46	11.4545	3.114
	3.00	1769.3	1492.2	108.55	10.5833	3.130
	3.25	1773.3	1496.2	108.62	9.8462	3.144
	3.50	1776.7	1499.6	108.67	9.2143	3.157
	3.75	1779.8	1502.7	108.71	8.6667	3.168
	4.00	1782.5	1505.4	108.73	8.1875	3.177
	4.25	1784.9	1507.9	108.74	7.7647	3.186
	4.50	1787.2	1510.1	108.72	7.3889	3.194
	4.75	1789.2	1512.1	108.71	7.0526	3.201
	5.00	1791.1	1514.0	108.68	6.7500	3.208
	5.25	1792.8	1515.7	108.64	6.4762	3.214
	5.50	1794.3	1517.3	108.61	6.2273	3.220
	5.75	1795.9	1518.8	108.56	6.0000	3.225
	6.00	1797.3	1520.2	108.51	5.7917	3.230
	6.25	1798.6	1521.5	108.46	5.6000	3.235
	6.50	1799.8	1522.7	108.39	5.4231	3.239
	6.75	1800.9	1523.9	108.31	5.2593	3.243
	7.00	1802.0	1525.0	108.23	5.1071	3.247
	7.25	1803.1	1526.0	108.14	4.9655	3.251
	7.50	1804.0	1527.0	108.07	4.8333	3.255
	7.75	1805.0	1527.9	107.96	4.7097	3.258
	8.00	1805.9	1528.8	107.86	4.5938	3.261
	8.25	1806.7	1529.6	107.75	4.4848	3.264
	8.50	1807.5	1530.4	107.66	4.3824	3.267
	8.75	1808.3	1531.2	107.54	4.2857	3.270

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
9.00	1809.0	1531.9	107.43	4.1944	3.272
9.25	1809.7	1532.6	107.33	4.1081	3.275
9.50	1810.3	1533.3	107.21	4.0263	3.277
9.75	1811.0	1533.9	107.09	3.9487	3.280
10.00	1811.6	1534.5	106.98	3.8750	3.282
10.25	1812.2	1535.1	106.87	3.8049	3.284
10.50	1812.7	1535.7	106.74	3.7381	3.286
10.75	1813.3	1536.2	106.64	3.6744	3.288
11.00	1813.8	1536.7	106.52	3.6136	3.290
11.25	1814.3	1537.3	106.39	3.5556	3.292
11.50	1814.8	1537.7	106.28	3.5000	3.293
11.75	1815.3	1538.2	106.16	3.4468	3.295
12.00	1815.7	1538.7	106.05	3.3958	3.297
12.25	1816.2	1539.1	105.92	3.3469	3.298
12.50	1816.6	1539.6	105.89	3.3000	3.300
12.75	1817.0	1540.0	105.79	3.2549	3.302
13.00	1817.4	1540.4	105.67	3.2115	3.303
13.25	1817.8	1540.8	105.57	3.1698	3.304
13.50	1818.2	1541.1	105.47	3.1296	3.306
13.75	1818.6	1541.5	105.38	3.0909	3.307
14.00	1818.9	1541.8	105.29	3.0536	3.308
14.25	1819.3	1542.2	105.21	3.0175	3.310
14.50	1819.6	1542.5	105.12	2.9828	3.311
14.75	1819.9	1542.9	105.05	2.9492	3.312
15.00	1820.3	1543.2	104.98	2.9167	3.313
15.25	1820.6	1543.5	104.90	2.8852	3.314
15.50	1820.9	1543.8	104.82	2.8548	3.316
15.75	1821.2	1544.1	104.75	2.8254	3.317
16.00	1821.4	1544.4	104.69	2.7969	3.318
16.25	1821.7	1544.6	104.63	2.7692	3.319
16.50	1822.0	1544.9	104.57	2.7424	3.320
16.75	1822.3	1545.2	104.50	2.7164	3.321
17.00	1822.5	1545.5	104.44	2.6912	3.322
17.25	1822.8	1545.7	104.39	2.6667	3.323
17.50	1823.0	1546.0	104.33	2.6429	3.323
17.75	1823.2	1546.2	104.29	2.6197	3.324
18.00	1823.5	1546.4	104.24	2.5972	3.325
18.25	1823.7	1546.7	104.20	2.5753	3.326
18.50	1824.0	1546.9	104.16	2.5541	3.327
18.75	1824.2	1547.1	104.11	2.5333	3.328
19.00	1824.4	1547.4	104.07	2.5132	3.329
19.25	1824.6	1547.6	104.05	2.4935	3.329
19.50	1824.8	1547.8	104.00	2.4744	3.330
19.75	1825.1	1548.0	103.97	2.4557	3.331
20.00	1825.2	1548.2	103.94	2.4375	3.332
20.25	1825.4	1548.4	103.92	2.4198	3.332
20.50	1825.6	1548.6	103.90	2.4024	3.333
20.75	1825.8	1548.8	103.87	2.3855	3.334
21.00	1826.0	1549.0	103.85	2.3690	3.334
21.25	1826.2	1549.1	103.83	2.3529	3.335
21.50	1826.4	1549.3	103.82	2.3372	3.336

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98

TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
21.75	1826.6	1549.5	103.80	2.3218	3.336
22.00	1826.7	1549.7	103.79	2.3068	3.337
22.25	1826.9	1549.8	103.78	2.2921	3.338
22.50	1827.1	1550.0	103.76	2.2778	3.338
22.75	1827.2	1550.2	103.75	2.2637	3.339
23.00	1827.4	1550.3	103.74	2.2500	3.339
23.25	1827.5	1550.5	103.74	2.2366	3.340
23.50	1827.7	1550.7	103.73	2.2234	3.341
23.75	1827.9	1550.8	103.73	2.2105	3.341
24.00	1828.0	1551.0	103.72	2.1979	3.342
24.25	1828.2	1551.1	103.72	2.1856	3.342
24.50	1828.3	1551.3	103.71	2.1735	3.343
24.75	1828.5	1551.4	103.72	2.1616	3.343
25.00	1828.6	1551.6	103.72	2.1500	3.344
25.25	1828.8	1551.7	103.72	2.1386	3.344
25.50	1828.9	1551.8	103.71	2.1275	3.345
25.75	1829.0	1552.0	103.72	2.1165	3.345
26.00	1829.1	1552.1	103.72	2.1058	3.346
26.25	1829.3	1552.2	103.73	2.0952	3.346
26.50	1829.4	1552.3	103.73	2.0849	3.347
26.75	1829.5	1552.5	103.74	2.0748	3.347
27.00	1829.6	1552.6	103.74	2.0648	3.348
27.25	1829.8	1552.7	103.75	2.0550	3.348
27.50	1829.9	1552.9	103.75	2.0455	3.349
27.75	1830.0	1553.0	103.77	2.0360	3.349
28.00	1830.1	1553.1	103.78	2.0268	3.349
28.25	1830.2	1553.2	103.79	2.0177	3.350
28.50	1830.4	1553.3	103.79	2.0088	3.350
28.75	1830.4	1553.4	103.81	2.0000	3.350
29.00	1830.6	1553.5	103.81	1.9914	3.351
29.25	1830.7	1553.7	103.82	1.9829	3.352
29.50	1830.8	1553.8	103.82	1.9746	3.352
29.75	1830.9	1553.9	103.84	1.9664	3.352
30.00	1831.1	1554.0	103.85	1.9583	3.353
30.25	1831.2	1554.1	103.86	1.9504	3.353
30.50	1831.3	1554.2	103.88	1.9426	3.354
30.75	1831.4	1554.4	103.89	1.9350	3.354
31.00	1831.5	1554.5	103.90	1.9274	3.355
31.25	1831.6	1554.6	103.92	1.9200	3.355
31.50	1831.7	1554.7	103.93	1.9127	3.355
31.75	1831.8	1554.8	103.95	1.9055	3.356
32.00	1831.9	1554.9	103.96	1.8984	3.356
32.25	1832.0	1555.0	103.98	1.8915	3.356
32.50	1832.1	1555.1	103.98	1.8846	3.357
32.75	1832.2	1555.2	104.00	1.8779	3.357
33.00	1832.3	1555.3	104.02	1.8712	3.357
33.25	1832.4	1555.4	104.03	1.8647	3.358
33.50	1832.5	1555.4	104.05	1.8582	3.358
33.75	1832.6	1555.5	104.07	1.8519	3.358
34.00	1832.7	1555.6	104.08	1.8456	3.359
34.25	1832.8	1555.7	104.10	1.8394	3.359

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure	delta P	Temp.	(T+dT)/dT	P^2/10^6
	PSI	PSI	DEG F		
34.50	1832.9	1555.8	104.12	1.8333	3.359
34.75	1833.0	1555.9	104.14	1.8273	3.360
35.00	1833.1	1556.0	104.15	1.8214	3.360
35.25	1833.2	1556.1	104.18	1.8156	3.360
35.50	1833.2	1556.2	104.19	1.8099	3.361
35.75	1833.3	1556.3	104.21	1.8042	3.361
36.00	1833.4	1556.4	104.23	1.7986	3.361
36.25	1833.5	1556.4	104.26	1.7931	3.362
36.50	1833.6	1556.5	104.28	1.7877	3.362
36.75	1833.7	1556.6	104.29	1.7823	3.362
37.00	1833.8	1556.7	104.32	1.7770	3.363
37.25	1833.8	1556.8	104.35	1.7718	3.363
37.50	1833.9	1556.8	104.37	1.7667	3.363
37.75	1834.0	1556.9	104.39	1.7616	3.364
38.00	1834.1	1557.0	104.41	1.7566	3.364
38.25	1834.2	1557.1	104.44	1.7516	3.364
38.50	1834.2	1557.2	104.46	1.7468	3.364
38.75	1834.3	1557.2	104.48	1.7419	3.365
39.00	1834.4	1557.3	104.50	1.7372	3.365
39.25	1834.4	1557.4	104.54	1.7325	3.365
39.50	1834.5	1557.5	104.57	1.7278	3.365
39.75	1834.6	1557.6	104.59	1.7233	3.366
40.00	1834.7	1557.6	104.62	1.7188	3.366
40.25	1834.7	1557.7	104.65	1.7143	3.366
40.50	1834.8	1557.8	104.67	1.7099	3.367
40.75	1834.9	1557.8	104.71	1.7055	3.367
41.00	1835.0	1557.9	104.74	1.7012	3.367
41.25	1835.0	1558.0	104.77	1.6970	3.367
41.50	1835.1	1558.0	104.80	1.6928	3.368
41.75	1835.2	1558.1	104.82	1.6886	3.368
42.00	1835.2	1558.2	104.85	1.6845	3.368
42.25	1835.3	1558.2	104.89	1.6805	3.368
42.50	1835.3	1558.3	104.92	1.6765	3.368
42.75	1835.4	1558.4	104.96	1.6725	3.369
43.00	1835.5	1558.4	104.98	1.6686	3.369
43.25	1835.6	1558.5	105.02	1.6647	3.369
43.50	1835.6	1558.6	105.06	1.6609	3.370
43.75	1835.7	1558.6	105.09	1.6571	3.370
44.00	1835.7	1558.7	105.12	1.6534	3.370
44.25	1835.8	1558.7	105.16	1.6497	3.370
44.50	1835.9	1558.8	105.18	1.6461	3.370
44.75	1835.9	1558.9	105.22	1.6425	3.371
45.00	1836.0	1558.9	105.26	1.6389	3.371
45.25	1836.1	1559.0	105.30	1.6354	3.371
45.50	1836.1	1559.1	105.33	1.6319	3.371
45.75	1836.2	1559.1	105.37	1.6284	3.372
46.00	1836.3	1559.2	105.40	1.6250	3.372
46.25	1836.3	1559.2	105.44	1.6216	3.372
46.50	1836.4	1559.3	105.47	1.6183	3.372
46.75	1836.4	1559.4	105.50	1.6150	3.372
47.00	1836.5	1559.4	105.55	1.6117	3.373

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98

TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
47.25	1836.5	1559.5	105.58	1.6085	3.373
47.50	1836.6	1559.5	105.63	1.6053	3.373
47.75	1836.7	1559.6	105.66	1.6021	3.373
48.00	1836.7	1559.6	105.70	1.5990	3.373
48.25	1836.8	1559.7	105.76	1.5959	3.374
48.50	1836.8	1559.8	105.81	1.5928	3.374
48.75	1836.9	1559.8	105.88	1.5897	3.374
49.00	1836.9	1559.9	105.89	1.5867	3.374
49.25	1837.0	1559.9	105.89	1.5838	3.374
49.50	1837.0	1560.0	105.89	1.5808	3.375
49.75	1837.1	1560.0	105.89	1.5779	3.375
50.00	1837.1	1560.1	105.95	1.5750	3.375
50.25	1837.2	1560.1	105.99	1.5721	3.375
50.50	1837.2	1560.2	106.04	1.5693	3.375
50.75	1837.3	1560.2	106.08	1.5665	3.376
51.00	1837.4	1560.3	106.13	1.5637	3.376
51.25	1837.4	1560.4	106.16	1.5610	3.376
51.50	1837.4	1560.4	106.20	1.5583	3.376
51.75	1837.5	1560.4	106.24	1.5556	3.376
52.00	1837.6	1560.5	106.29	1.5529	3.377
52.25	1837.6	1560.5	106.33	1.5502	3.377
52.50	1837.7	1560.6	106.36	1.5476	3.377
52.75	1837.7	1560.6	106.40	1.5450	3.377
53.00	1837.8	1560.7	106.43	1.5425	3.377
53.25	1837.8	1560.8	106.48	1.5399	3.378
53.50	1837.9	1560.8	106.53	1.5374	3.378
53.75	1837.9	1560.9	106.55	1.5349	3.378
54.00	1837.9	1560.9	106.60	1.5324	3.378
54.25	1838.0	1560.9	106.63	1.5300	3.378
54.50	1838.0	1561.0	106.67	1.5275	3.378
54.75	1838.1	1561.1	106.71	1.5251	3.379
55.00	1838.2	1561.1	106.75	1.5227	3.379
55.25	1838.2	1561.2	106.79	1.5204	3.379
55.50	1838.3	1561.2	106.82	1.5180	3.379
55.75	1838.3	1561.2	106.87	1.5157	3.379
56.00	1838.4	1561.3	106.91	1.5134	3.380
56.25	1838.4	1561.4	106.94	1.5111	3.380
56.50	1838.5	1561.4	106.98	1.5088	3.380
56.75	1838.5	1561.4	107.02	1.5066	3.380
57.00	1838.6	1561.5	107.06	1.5044	3.380
57.25	1838.6	1561.5	107.10	1.5022	3.380
57.50	1838.6	1561.6	107.14	1.5000	3.381
57.75	1838.7	1561.6	107.18	1.4978	3.381
58.00	1838.7	1561.7	107.22	1.4957	3.381
58.25	1838.8	1561.7	107.25	1.4936	3.381
58.50	1838.8	1561.8	107.30	1.4915	3.381
58.75	1838.9	1561.8	107.33	1.4894	3.381
59.00	1838.9	1561.8	107.38	1.4873	3.382
59.25	1839.0	1561.9	107.40	1.4852	3.382
59.50	1839.0	1561.9	107.44	1.4832	3.382
59.75	1839.0	1561.9	107.49	1.4812	3.382

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** End Shut-in 1	60.00	1839.1	1562.0	107.53	1.4792	3.382
***** Start Flow 2	0.00	267.4	0.0	107.44		
	0.25	266.6	-0.8	107.45		
	0.50	266.3	-1.1	107.46		
	0.75	266.1	-1.3	107.49		
	1.00	266.2	-1.2	107.50		
	1.25	266.6	-0.8	107.51		
	1.50	267.5	0.1	107.51		
	1.75	267.7	0.3	107.49		
	2.00	268.5	1.1	107.46		
	2.25	270.0	2.6	107.40		
	2.50	271.5	4.1	107.31		
	2.75	272.2	4.7	107.20		
	3.00	273.1	5.7	107.08		
	3.25	274.7	7.2	106.91		
	3.50	275.7	8.3	106.72		
	3.75	278.7	11.3	106.50		
	4.00	280.2	12.8	106.26		
	4.25	282.6	15.2	106.02		
	4.50	286.7	19.3	105.82		
	4.75	289.6	22.2	105.49		
	5.00	300.5	33.1	105.18		
	5.25	298.6	31.2	104.87		
	5.50	304.6	37.2	104.55		
	5.75	305.9	38.5	104.23		
	6.00	310.1	42.7	103.89		
	6.25	310.8	43.4	103.56		
	6.50	312.4	45.0	103.22		
	6.75	313.1	45.7	102.86		
	7.00	311.8	44.4	102.53		
	7.25	314.2	46.8	102.17		
	7.50	316.7	49.3	101.82		
	7.75	316.3	48.9	101.47		
	8.00	319.5	52.1	101.11		
	8.25	316.8	49.4	100.74		
	8.50	318.1	50.7	100.39		
	8.75	316.7	49.3	100.04		
	9.00	321.1	53.7	99.68		
	9.25	320.7	53.3	99.36		
	9.50	317.5	50.0	98.99		
	9.75	322.1	54.7	98.65		
	10.00	320.7	53.3	98.31		
	10.25	321.6	54.2	97.98		
	10.50	319.8	52.4	97.65		
	10.75	321.2	53.8	97.32		
	11.00	323.9	56.5	97.01		
	11.25	321.5	54.1	96.71		
	11.50	325.9	58.5	96.42		
	11.75	324.2	56.8	96.12		
	12.00	325.6	58.2	95.82		
	12.25	325.0	57.6	95.55		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
12.50	326.0	58.6	95.27		
12.75	328.5	61.1	95.00		
13.00	327.4	60.0	94.74		
13.25	330.4	63.0	94.48		
13.50	330.1	62.7	94.25		
13.75	327.4	60.0	94.00		
14.00	330.1	62.7	93.76		
14.25	330.8	63.4	93.53		
14.50	333.8	66.4	93.31		
14.75	330.9	63.5	93.08		
15.00	332.7	65.3	92.94		
15.25	330.1	62.7	92.68		
15.50	331.7	64.3	92.48		
15.75	334.2	66.8	92.27		
16.00	331.2	63.7	92.07		
16.25	332.2	64.8	91.88		
16.50	332.6	65.2	91.68		
16.75	335.9	68.5	91.50		
17.00	335.8	68.4	91.30		
17.25	334.2	66.8	91.12		
17.50	334.4	67.0	90.94		
17.75	335.7	68.3	90.76		
18.00	334.2	66.8	90.58		
18.25	342.2	74.8	90.41		
18.50	336.8	69.4	90.25		
18.75	335.2	67.8	90.08		
19.00	338.2	70.8	89.91		
19.25	340.0	72.6	89.74		
19.50	336.8	69.4	89.59		
19.75	336.5	69.1	89.42		
20.00	339.1	71.7	89.27		
20.25	340.9	73.5	89.11		
20.50	340.2	72.8	88.96		
20.75	341.6	74.2	88.81		
21.00	342.5	75.1	88.65		
21.25	341.9	74.5	88.51		
21.50	342.0	74.6	88.36		
21.75	342.9	75.5	88.22		
22.00	343.0	75.6	88.08		
22.25	343.1	75.7	87.94		
22.50	344.8	77.4	87.78		
22.75	344.6	77.2	87.65		
23.00	344.7	77.3	87.52		
23.25	344.7	77.3	87.38		
23.50	343.3	75.9	87.25		
23.75	344.2	76.8	87.11		
24.00	345.1	77.7	86.98		
24.25	344.3	76.9	86.86		
24.50	346.1	78.7	86.74		
24.75	345.8	78.4	86.61		
25.00	346.4	79.0	86.47		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
25.25	348.2	80.8	86.43		
25.50	348.6	81.2	86.31		
25.75	349.2	81.8	86.18		
26.00	347.2	79.8	86.08		
26.25	348.9	81.5	85.97		
26.50	348.6	81.2	85.87		
26.75	348.9	81.5	85.78		
27.00	348.9	81.5	85.69		
27.25	349.2	81.8	85.58		
27.50	349.4	82.0	85.50		
27.75	349.9	82.5	85.40		
28.00	349.9	82.5	85.32		
28.25	347.8	80.3	85.24		
28.50	347.0	79.6	85.15		
28.75	346.3	78.9	85.10		
29.00	345.9	78.5	85.02		
29.25	346.5	79.1	84.95		
29.50	346.8	79.4	84.89		
29.75	347.4	80.0	84.83		
30.00	348.9	81.5	84.77		
30.25	350.4	83.0	84.73		
30.50	349.7	82.3	84.68		
30.75	349.9	82.5	84.63		
31.00	350.2	82.8	84.58		
31.25	352.0	84.6	84.54		
31.50	352.4	85.0	84.49		
31.75	353.0	85.6	84.45		
32.00	352.7	85.3	84.41		
32.25	353.4	86.0	84.38		
32.50	353.9	86.5	84.34		
32.75	353.4	86.0	84.30		
33.00	354.5	87.1	84.28		
33.25	353.9	86.5	84.27		
33.50	354.4	87.0	84.21		
33.75	355.2	87.8	84.17		
34.00	354.7	87.3	84.15		
34.25	355.4	88.0	84.12		
34.50	355.9	88.5	84.09		
34.75	355.1	87.7	84.07		
35.00	356.9	89.5	84.04		
35.25	357.4	90.0	84.02		
35.50	356.9	89.5	83.99		
35.75	356.9	89.5	83.97		
36.00	356.6	89.2	83.95		
36.25	354.8	87.4	83.94		
36.50	350.7	83.3	83.93		
36.75	350.6	83.2	83.91		
37.00	347.6	80.2	83.89		
37.25	345.1	77.7	83.89		
37.50	347.1	79.7	83.87		
37.75	346.2	78.8	83.87		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
38.00	349.5	82.1	83.86		
38.25	348.9	81.5	83.85		
38.50	352.5	85.1	83.84		
38.75	355.4	88.0	83.83		
39.00	355.8	88.4	83.82		
39.25	356.9	89.5	83.83		
39.50	358.6	91.2	83.81		
39.75	358.2	90.8	83.81		
40.00	358.4	91.0	83.80		
40.25	358.4	91.0	83.81		
40.50	357.6	90.2	83.79		
40.75	356.6	89.2	83.79		
41.00	354.9	87.5	83.79		
41.25	352.5	85.1	83.79		
41.50	351.7	84.3	83.80		
41.75	351.9	84.5	83.80		
42.00	353.0	85.6	83.79		
42.25	351.1	83.7	83.80		
42.50	351.1	83.7	83.80		
42.75	352.6	85.2	83.80		
43.00	352.8	85.4	83.80		
43.25	354.4	87.0	83.79		
43.50	355.7	88.3	83.80		
43.75	356.3	88.9	83.81		
44.00	356.0	88.6	83.80		
44.25	356.8	89.4	83.81		
44.50	358.8	91.4	83.80		
44.75	358.7	91.3	83.81		
45.00	359.2	91.8	83.81		
45.25	359.3	91.9	83.81		
45.50	357.8	90.4	83.82		
45.75	357.2	89.8	83.82		
46.00	356.5	89.1	83.83		
46.25	355.7	88.3	83.83		
46.50	355.9	88.5	83.84		
46.75	354.1	86.7	83.84		
47.00	354.8	87.4	83.85		
47.25	356.5	89.1	83.87		
47.50	357.7	90.3	83.87		
47.75	358.5	91.1	83.88		
48.00	359.9	92.5	83.89		
48.25	361.0	93.6	83.89		
48.50	359.8	92.4	83.90		
48.75	360.5	93.1	83.91		
49.00	360.3	92.9	83.92		
49.25	360.2	92.8	83.92		
49.50	360.5	93.1	83.93		
49.75	361.0	93.6	83.95		
50.00	360.9	93.5	83.95		
50.25	360.8	93.3	83.96		
50.50	362.4	94.9	83.97		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

	Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
	50.75	361.7	94.3	83.98		
	51.00	360.4	92.9	83.99		
	51.25	359.8	92.4	84.00		
	51.50	359.2	91.8	84.01		
	51.75	358.9	91.5	84.02		
	52.00	356.9	89.5	84.03		
	52.25	357.1	89.7	84.05		
	52.50	355.3	87.9	84.06		
	52.75	356.3	88.9	84.08		
	53.00	355.5	88.1	84.08		
	53.25	357.6	90.2	84.09		
	53.50	357.8	90.4	84.10		
	53.75	359.2	91.8	84.11		
	54.00	360.5	93.1	84.12		
	54.25	360.4	93.0	84.13		
	54.50	360.8	93.4	84.15		
	54.75	362.9	95.5	84.16		
	55.00	361.9	94.5	84.16		
	55.25	363.6	96.2	84.19		
	55.50	362.6	95.1	84.20		
	55.75	361.6	94.2	84.21		
	56.00	361.5	94.1	84.21		
	56.25	360.8	93.4	84.24		
	56.50	361.1	93.6	84.24		
	56.75	361.9	94.5	84.26		
	57.00	360.9	93.5	84.28		
	57.25	362.0	94.6	84.28		
	57.50	360.9	93.5	84.28		
	57.75	362.1	94.6	84.28		
	58.00	360.7	93.3	84.28		
	58.25	361.4	94.0	84.30		
	58.50	362.5	95.1	84.31		
***** End Flow 2	58.75	362.3	94.9	84.33		
***** Start Shutin 2	0.00	362.3	0.0	84.33	0.0000	0.131
	0.25	617.1	254.8	84.34	351.0000	0.381
	0.50	1244.4	882.1	84.35	176.0000	1.549
	0.75	1439.6	1077.3	84.44	117.6667	2.073
	1.00	1519.0	1156.7	84.69	88.5000	2.307
	1.25	1562.1	1199.8	85.10	71.0000	2.440
	1.50	1589.2	1226.9	85.63	59.3333	2.525
	1.75	1608.0	1245.7	86.24	51.0000	2.586
	2.00	1622.4	1260.1	86.89	44.7500	2.632
	2.25	1634.1	1271.7	87.58	39.8889	2.670
	2.50	1643.7	1281.4	88.25	36.0000	2.702
	2.75	1652.0	1289.7	88.91	32.8182	2.729
	3.00	1659.2	1296.9	89.55	30.1667	2.753
	3.25	1665.6	1303.3	90.15	27.9231	2.774
	3.50	1671.3	1309.0	90.70	26.0000	2.793
	3.75	1676.4	1314.1	91.22	24.3333	2.810
	4.00	1681.0	1318.7	91.70	22.8750	2.826
	4.25	1685.3	1323.0	92.14	21.5882	2.840

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dt)/dt	P^2/10^6
4.50	1689.2	1326.9	92.54	20.4444	2.853
4.75	1692.8	1330.5	92.96	19.4211	2.866
5.00	1696.2	1333.9	93.22	18.5000	2.877
5.25	1699.3	1337.0	93.54	17.6667	2.888
5.50	1702.3	1340.0	93.82	16.9091	2.898
5.75	1705.0	1342.7	94.07	16.2174	2.907
6.00	1707.6	1345.3	94.32	15.5833	2.916
6.25	1710.1	1347.8	94.52	15.0000	2.924
6.50	1712.4	1350.1	94.72	14.4615	2.932
6.75	1714.6	1352.3	94.90	13.9630	2.940
7.00	1716.7	1354.4	95.07	13.5000	2.947
7.25	1718.7	1356.4	95.23	13.0690	2.954
7.50	1720.7	1358.3	95.38	12.6667	2.961
7.75	1722.5	1360.2	95.52	12.2903	2.967
8.00	1724.3	1362.0	95.64	11.9375	2.973
8.25	1725.9	1363.6	95.78	11.6061	2.979
8.50	1727.5	1365.2	95.89	11.2941	2.984
8.75	1729.1	1366.8	95.99	11.0000	2.990
9.00	1730.6	1368.3	96.10	10.7222	2.995
9.25	1732.0	1369.7	96.19	10.4595	3.000
9.50	1733.4	1371.1	96.27	10.2105	3.005
9.75	1734.8	1372.5	96.36	9.9744	3.010
10.00	1736.2	1373.8	96.43	9.7500	3.014
10.25	1737.4	1375.1	96.52	9.5366	3.019
10.50	1738.7	1376.4	96.58	9.3333	3.023
10.75	1739.8	1377.5	96.65	9.1395	3.027
11.00	1741.0	1378.7	96.71	8.9545	3.031
11.25	1742.1	1379.8	96.78	8.7778	3.035
11.50	1743.3	1380.9	96.84	8.6087	3.039
11.75	1744.3	1382.0	96.89	8.4468	3.043
12.00	1745.3	1383.0	96.94	8.2917	3.046
12.25	1746.4	1384.1	97.00	8.1429	3.050
12.50	1747.3	1385.0	97.05	8.0000	3.053
12.75	1748.3	1386.0	97.09	7.8627	3.057
13.00	1749.3	1386.9	97.14	7.7308	3.060
13.25	1750.2	1387.9	97.14	7.6038	3.063
13.50	1751.1	1388.8	97.23	7.4815	3.066
13.75	1752.0	1389.6	97.28	7.3636	3.069
14.00	1752.8	1390.5	97.30	7.2500	3.072
14.25	1753.6	1391.3	97.33	7.1404	3.075
14.50	1754.5	1392.2	97.37	7.0345	3.078
14.75	1755.3	1393.0	97.41	6.9322	3.081
15.00	1756.0	1393.7	97.44	6.8333	3.084
15.25	1756.8	1394.5	97.49	6.7377	3.086
15.50	1757.6	1395.3	97.53	6.6452	3.089
15.75	1758.3	1396.0	97.56	6.5556	3.092
16.00	1759.1	1396.8	97.60	6.4688	3.094
16.25	1759.8	1397.4	97.64	6.3846	3.097
16.50	1760.5	1398.2	97.67	6.3030	3.099
16.75	1761.2	1398.8	97.71	6.2239	3.102
17.00	1761.8	1399.5	97.75	6.1471	3.104

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
17.25	1762.5	1400.2	97.78	6.0725	3.106
17.50	1763.1	1400.8	97.83	6.0000	3.109
17.75	1763.8	1401.4	97.86	5.9296	3.111
18.00	1764.4	1402.1	97.90	5.8611	3.113
18.25	1765.0	1402.7	97.95	5.7945	3.115
18.50	1765.6	1403.3	97.99	5.7297	3.117
18.75	1766.2	1403.9	98.03	5.6667	3.119
19.00	1766.8	1404.5	98.08	5.6053	3.122
19.25	1767.4	1405.1	98.12	5.5455	3.124
19.50	1767.9	1405.6	98.16	5.4872	3.126
19.75	1768.5	1406.2	98.21	5.4304	3.127
20.00	1769.0	1406.7	98.25	5.3750	3.129
20.25	1769.6	1407.3	98.29	5.3210	3.131
20.50	1770.1	1407.8	98.33	5.2683	3.133
20.75	1770.6	1408.3	98.37	5.2169	3.135
21.00	1771.1	1408.8	98.43	5.1667	3.137
21.25	1771.6	1409.3	98.47	5.1176	3.139
21.50	1772.1	1409.8	98.52	5.0698	3.140
21.75	1772.6	1410.2	98.56	5.0230	3.142
22.00	1773.1	1410.7	98.61	4.9773	3.144
22.25	1773.6	1411.2	98.65	4.9326	3.145
22.50	1774.0	1411.7	98.70	4.8889	3.147
22.75	1774.5	1412.2	98.75	4.8462	3.149
23.00	1774.9	1412.6	98.79	4.8043	3.150
23.25	1775.4	1413.0	98.84	4.7634	3.152
23.50	1775.8	1413.5	98.89	4.7234	3.153
23.75	1776.2	1413.9	98.95	4.6842	3.155
24.00	1776.7	1414.3	98.99	4.6458	3.157
24.25	1777.1	1414.7	99.05	4.6082	3.158
24.50	1777.5	1415.2	99.10	4.5714	3.159
24.75	1777.9	1415.6	99.15	4.5354	3.161
25.00	1778.3	1416.0	99.20	4.5000	3.162
25.25	1778.7	1416.4	99.25	4.4653	3.164
25.50	1779.1	1416.7	99.32	4.4314	3.165
25.75	1779.5	1417.2	99.36	4.3981	3.167
26.00	1779.9	1417.5	99.43	4.3654	3.168
26.25	1780.2	1417.9	99.46	4.3333	3.169
26.50	1780.6	1418.2	99.45	4.3019	3.170
26.75	1781.0	1418.6	99.53	4.2710	3.172
27.00	1781.3	1419.0	99.59	4.2407	3.173
27.25	1781.7	1419.4	99.65	4.2110	3.174
27.50	1782.1	1419.8	99.71	4.1818	3.176
27.75	1782.4	1420.1	99.77	4.1532	3.177
28.00	1782.7	1420.4	99.82	4.1250	3.178
28.25	1783.1	1420.8	99.89	4.0973	3.179
28.50	1783.4	1421.1	99.94	4.0702	3.181
28.75	1783.7	1421.4	99.99	4.0435	3.182
29.00	1784.1	1421.8	100.05	4.0172	3.183
29.25	1784.4	1422.1	100.10	3.9915	3.184
29.50	1784.7	1422.4	100.16	3.9661	3.185
29.75	1785.0	1422.7	100.21	3.9412	3.186

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
30.00	1785.3	1423.0	100.28	3.9167	3.187
30.25	1785.7	1423.4	100.33	3.8926	3.189
30.50	1786.0	1423.7	100.40	3.8689	3.190
30.75	1786.3	1424.0	100.45	3.8455	3.191
31.00	1786.6	1424.3	100.50	3.8226	3.192
31.25	1786.9	1424.6	100.57	3.8000	3.193
31.50	1787.2	1424.9	100.62	3.7778	3.194
31.75	1787.5	1425.1	100.67	3.7559	3.195
32.00	1787.8	1425.4	100.74	3.7344	3.196
32.25	1788.0	1425.7	100.79	3.7132	3.197
32.50	1788.3	1426.0	100.84	3.6923	3.198
32.75	1788.6	1426.3	100.90	3.6718	3.199
33.00	1788.9	1426.6	100.97	3.6515	3.200
33.25	1789.2	1426.8	101.02	3.6316	3.201
33.50	1789.4	1427.1	101.08	3.6119	3.202
33.75	1789.7	1427.4	101.14	3.5926	3.203
34.00	1790.0	1427.6	101.19	3.5735	3.204
34.25	1790.2	1427.9	101.26	3.5547	3.205
34.50	1790.5	1428.2	101.32	3.5362	3.206
34.75	1790.7	1428.4	101.37	3.5180	3.207
35.00	1791.0	1428.7	101.43	3.5000	3.208
35.25	1791.2	1428.9	101.49	3.4823	3.208
35.50	1791.5	1429.2	101.55	3.4648	3.209
35.75	1791.7	1429.4	101.60	3.4476	3.210
36.00	1791.9	1429.6	101.66	3.4306	3.211
36.25	1792.2	1429.9	101.71	3.4138	3.212
36.50	1792.4	1430.1	101.78	3.3973	3.213
36.75	1792.7	1430.4	101.83	3.3810	3.214
37.00	1792.9	1430.6	101.89	3.3649	3.215
37.25	1793.2	1430.8	101.94	3.3490	3.215
37.50	1793.4	1431.1	102.00	3.3333	3.216
37.75	1793.6	1431.3	102.07	3.3179	3.217
38.00	1793.8	1431.5	102.12	3.3026	3.218
38.25	1794.1	1431.7	102.18	3.2876	3.219
38.50	1794.3	1432.0	102.23	3.2727	3.219
38.75	1794.5	1432.1	102.29	3.2581	3.220
39.00	1794.7	1432.4	102.34	3.2436	3.221
39.25	1794.9	1432.6	102.41	3.2293	3.222
39.50	1795.2	1432.8	102.47	3.2152	3.223
39.75	1795.4	1433.0	102.52	3.2013	3.223
40.00	1795.6	1433.2	102.58	3.1875	3.224
40.25	1795.8	1433.5	102.64	3.1739	3.225
40.50	1796.0	1433.7	102.68	3.1605	3.226
40.75	1796.2	1433.9	102.75	3.1472	3.226
41.00	1796.4	1434.1	102.81	3.1341	3.227
41.25	1796.6	1434.3	102.86	3.1212	3.228
41.50	1796.8	1434.5	102.93	3.1084	3.229
41.75	1797.0	1434.7	102.98	3.0958	3.229
42.00	1797.2	1434.9	103.03	3.0833	3.230
42.25	1797.4	1435.1	103.08	3.0710	3.231
42.50	1797.6	1435.3	103.14	3.0588	3.231

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98

TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
42.75	1797.8	1435.5	103.19	3.0468	3.232
43.00	1798.0	1435.7	103.25	3.0349	3.233
43.25	1798.2	1435.9	103.31	3.0231	3.233
43.50	1798.4	1436.1	103.36	3.0115	3.234
43.75	1798.5	1436.2	103.42	3.0000	3.235
44.00	1798.7	1436.4	103.47	2.9886	3.235
44.25	1798.9	1436.6	103.53	2.9774	3.236
44.50	1799.1	1436.8	103.58	2.9663	3.237
44.75	1799.3	1437.0	103.64	2.9553	3.237
45.00	1799.5	1437.2	103.69	2.9444	3.238
45.25	1799.6	1437.3	103.74	2.9337	3.239
45.50	1799.8	1437.5	103.81	2.9231	3.239
45.75	1800.0	1437.7	103.85	2.9126	3.240
46.00	1800.2	1437.9	103.91	2.9022	3.241
46.25	1800.3	1438.0	103.96	2.8919	3.241
46.50	1800.5	1438.2	104.02	2.8817	3.242
46.75	1800.7	1438.4	104.06	2.8717	3.242
47.00	1800.8	1438.5	104.12	2.8617	3.243
47.25	1801.0	1438.7	104.17	2.8519	3.243
47.50	1801.2	1438.9	104.22	2.8421	3.244
47.75	1801.3	1439.0	104.28	2.8325	3.245
48.00	1801.5	1439.2	104.32	2.8229	3.245
48.25	1801.7	1439.4	104.38	2.8135	3.246
48.50	1801.8	1439.5	104.43	2.8041	3.247
48.75	1802.0	1439.7	104.50	2.7949	3.247
49.00	1802.2	1439.8	104.53	2.7857	3.248
49.25	1802.3	1440.0	104.60	2.7766	3.248
49.50	1802.5	1440.1	104.65	2.7677	3.249
49.75	1802.6	1440.3	104.70	2.7588	3.249
50.00	1802.7	1440.4	104.75	2.7500	3.250
50.25	1802.9	1440.6	104.81	2.7413	3.250
50.50	1803.0	1440.7	104.84	2.7327	3.251
50.75	1803.2	1440.9	104.89	2.7241	3.252
51.00	1803.4	1441.0	104.96	2.7157	3.252
51.25	1803.5	1441.2	105.00	2.7073	3.253
51.50	1803.7	1441.3	105.05	2.6990	3.253
51.75	1803.8	1441.5	105.10	2.6908	3.254
52.00	1804.0	1441.6	105.15	2.6827	3.254
52.25	1804.1	1441.8	105.20	2.6746	3.255
52.50	1804.2	1441.9	105.24	2.6667	3.255
52.75	1804.3	1442.0	105.29	2.6588	3.256
53.00	1804.5	1442.2	105.35	2.6509	3.256
53.25	1804.7	1442.3	105.40	2.6432	3.257
53.50	1804.8	1442.4	105.44	2.6355	3.257
53.75	1804.9	1442.6	105.50	2.6279	3.258
54.00	1805.1	1442.7	105.55	2.6204	3.258
54.25	1805.2	1442.9	105.60	2.6129	3.259
54.50	1805.3	1443.0	105.65	2.6055	3.259
54.75	1805.5	1443.1	105.70	2.5982	3.260
55.00	1805.6	1443.3	105.76	2.5909	3.260
55.25	1805.7	1443.4	105.86	2.5837	3.261

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
55.50	1805.9	1443.6	105.89	2.5766	3.261
55.75	1806.0	1443.7	105.89	2.5695	3.262
56.00	1806.1	1443.8	105.89	2.5625	3.262
56.25	1806.3	1443.9	105.94	2.5556	3.263
56.50	1806.4	1444.1	106.00	2.5487	3.263
56.75	1806.5	1444.2	106.06	2.5419	3.264
57.00	1806.7	1444.3	106.10	2.5351	3.264
57.25	1806.7	1444.4	106.16	2.5284	3.264
57.50	1806.9	1444.6	106.19	2.5217	3.265
57.75	1807.0	1444.7	106.25	2.5152	3.265
58.00	1807.2	1444.9	106.29	2.5086	3.266
58.25	1807.3	1445.0	106.34	2.5021	3.266
58.50	1807.4	1445.1	106.39	2.4957	3.267
58.75	1807.5	1445.2	106.42	2.4894	3.267
59.00	1807.6	1445.3	106.48	2.4831	3.267
59.25	1807.7	1445.4	106.53	2.4768	3.268
59.50	1807.9	1445.6	106.56	2.4706	3.268
59.75	1808.0	1445.6	106.62	2.4644	3.269
60.00	1808.1	1445.8	106.66	2.4583	3.269
60.25	1808.2	1445.9	106.70	2.4523	3.270
60.50	1808.3	1446.0	106.75	2.4463	3.270
60.75	1808.5	1446.1	106.80	2.4403	3.271
61.00	1808.6	1446.2	106.83	2.4344	3.271
61.25	1808.7	1446.3	106.88	2.4286	3.271
61.50	1808.8	1446.5	106.92	2.4228	3.272
61.75	1808.9	1446.6	106.97	2.4170	3.272
62.00	1809.0	1446.7	107.01	2.4113	3.273
62.25	1809.1	1446.8	107.05	2.4056	3.273
62.50	1809.2	1446.9	107.09	2.4000	3.273
62.75	1809.4	1447.1	107.14	2.3944	3.274
63.00	1809.5	1447.2	107.19	2.3889	3.274
63.25	1809.6	1447.2	107.24	2.3834	3.275
63.50	1809.7	1447.3	107.27	2.3780	3.275
63.75	1809.8	1447.5	107.31	2.3725	3.275
64.00	1809.9	1447.6	107.35	2.3672	3.276
64.25	1810.0	1447.7	107.39	2.3619	3.276
64.50	1810.1	1447.8	107.44	2.3566	3.277
64.75	1810.2	1447.9	107.48	2.3514	3.277
65.00	1810.3	1448.0	107.52	2.3462	3.277
65.25	1810.4	1448.1	107.56	2.3410	3.278
65.50	1810.5	1448.2	107.60	2.3359	3.278
65.75	1810.6	1448.3	107.64	2.3308	3.278
66.00	1810.7	1448.4	107.69	2.3258	3.279
66.25	1810.8	1448.5	107.73	2.3208	3.279
66.50	1810.9	1448.6	107.77	2.3158	3.280
66.75	1811.0	1448.7	107.82	2.3109	3.280
67.00	1811.1	1448.8	107.86	2.3060	3.280
67.25	1811.2	1448.9	107.89	2.3011	3.281
67.50	1811.3	1449.0	107.93	2.2963	3.281
67.75	1811.4	1449.1	107.98	2.2915	3.281
68.00	1811.5	1449.2	108.02	2.2868	3.282

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
68.25	1811.6	1449.3	108.06	2.2821	3.282
68.50	1811.7	1449.4	108.10	2.2774	3.282
68.75	1811.8	1449.5	108.13	2.2727	3.283
69.00	1811.9	1449.6	108.18	2.2681	3.283
69.25	1812.0	1449.7	108.21	2.2635	3.283
69.50	1812.1	1449.8	108.25	2.2590	3.284
69.75	1812.2	1449.9	108.29	2.2545	3.284
70.00	1812.3	1450.0	108.33	2.2500	3.284
70.25	1812.4	1450.1	108.38	2.2456	3.285
70.50	1812.5	1450.2	108.42	2.2411	3.285
70.75	1812.5	1450.2	108.46	2.2367	3.285
71.00	1812.7	1450.4	108.50	2.2324	3.286
71.25	1812.7	1450.4	108.53	2.2281	3.286
71.50	1812.8	1450.5	108.57	2.2238	3.286
71.75	1812.9	1450.6	108.60	2.2195	3.287
72.00	1813.0	1450.7	108.64	2.2153	3.287
72.25	1813.1	1450.8	108.68	2.2111	3.287
72.50	1813.2	1450.9	108.71	2.2069	3.288
72.75	1813.3	1451.0	108.75	2.2027	3.288
73.00	1813.4	1451.1	108.79	2.1986	3.288
73.25	1813.4	1451.1	108.84	2.1945	3.289
73.50	1813.5	1451.2	108.88	2.1905	3.289
73.75	1813.6	1451.3	108.91	2.1864	3.289
74.00	1813.7	1451.4	108.95	2.1824	3.290
74.25	1813.8	1451.5	108.98	2.1785	3.290
74.50	1813.9	1451.6	109.03	2.1745	3.290
74.75	1814.0	1451.7	109.05	2.1706	3.290
75.00	1814.1	1451.8	109.09	2.1667	3.291
75.25	1814.1	1451.8	109.12	2.1628	3.291
75.50	1814.2	1451.9	109.17	2.1589	3.291
75.75	1814.3	1452.0	109.20	2.1551	3.292
76.00	1814.4	1452.1	109.24	2.1513	3.292
76.25	1814.5	1452.2	109.27	2.1475	3.292
76.50	1814.5	1452.2	109.32	2.1438	3.293
76.75	1814.6	1452.3	109.35	2.1401	3.293
77.00	1814.7	1452.4	109.38	2.1364	3.293
77.25	1814.8	1452.5	109.42	2.1327	3.293
77.50	1814.8	1452.5	109.46	2.1290	3.294
77.75	1814.9	1452.6	109.50	2.1254	3.294
78.00	1815.0	1452.7	109.54	2.1218	3.294
78.25	1815.0	1452.7	109.56	2.1182	3.294
78.50	1815.2	1452.9	109.60	2.1146	3.295
78.75	1815.2	1452.9	109.64	2.1111	3.295
79.00	1815.3	1453.0	109.67	2.1076	3.295
79.25	1815.4	1453.1	109.70	2.1041	3.296
79.50	1815.4	1453.1	109.74	2.1006	3.296
79.75	1815.5	1453.2	109.78	2.0972	3.296
80.00	1815.6	1453.3	109.81	2.0938	3.296
80.25	1815.7	1453.4	109.84	2.0903	3.297
80.50	1815.7	1453.4	109.88	2.0870	3.297
80.75	1815.8	1453.5	109.91	2.0836	3.297

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98

TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
81.00	1815.9	1453.6	109.95	2.0802	3.298
81.25	1816.0	1453.7	109.98	2.0769	3.298
81.50	1816.0	1453.7	110.02	2.0736	3.298
81.75	1816.1	1453.8	110.05	2.0703	3.298
82.00	1816.2	1453.9	110.09	2.0671	3.299
82.25	1816.3	1454.0	110.14	2.0638	3.299
82.50	1816.4	1454.0	110.17	2.0606	3.299
82.75	1816.4	1454.1	110.17	2.0574	3.299
83.00	1816.5	1454.2	110.20	2.0542	3.300
83.25	1816.6	1454.2	110.25	2.0511	3.300
83.50	1816.6	1454.3	110.28	2.0479	3.300
83.75	1816.7	1454.4	110.34	2.0448	3.300
84.00	1816.7	1454.4	110.34	2.0417	3.300
84.25	1816.8	1454.5	110.38	2.0386	3.301
84.50	1816.9	1454.6	110.41	2.0355	3.301
84.75	1817.0	1454.7	110.44	2.0324	3.301
85.00	1817.0	1454.7	110.48	2.0294	3.302
85.25	1817.1	1454.8	110.51	2.0264	3.302
85.50	1817.2	1454.9	110.55	2.0234	3.302
85.75	1817.2	1454.9	110.57	2.0204	3.302
86.00	1817.3	1455.0	110.61	2.0174	3.303
86.25	1817.4	1455.1	110.64	2.0145	3.303
86.50	1817.4	1455.1	110.68	2.0116	3.303
86.75	1817.5	1455.2	110.70	2.0086	3.303
87.00	1817.6	1455.3	110.74	2.0057	3.304
87.25	1817.6	1455.3	110.78	2.0029	3.304
87.50	1817.7	1455.4	110.81	2.0000	3.304
87.75	1817.8	1455.5	110.84	1.9972	3.304
88.00	1817.8	1455.5	110.86	1.9943	3.305
88.25	1817.9	1455.6	110.90	1.9915	3.305
88.50	1818.0	1455.6	110.93	1.9887	3.305
88.75	1818.0	1455.7	110.95	1.9859	3.305
89.00	1818.1	1455.8	111.00	1.9831	3.306
89.25	1818.2	1455.8	111.02	1.9804	3.306
89.50	1818.2	1455.9	111.04	1.9777	3.306
89.75	1818.3	1455.9	111.08	1.9749	3.306
90.00	1818.3	1456.0	111.12	1.9722	3.306
90.25	1818.4	1456.1	111.14	1.9695	3.307
90.50	1818.5	1456.2	111.17	1.9669	3.307
90.75	1818.5	1456.2	111.20	1.9642	3.307
91.00	1818.6	1456.3	111.24	1.9615	3.307
91.25	1818.6	1456.3	111.26	1.9589	3.307
91.50	1818.7	1456.4	111.30	1.9563	3.308
91.75	1818.8	1456.5	111.32	1.9537	3.308
92.00	1818.8	1456.5	111.36	1.9511	3.308
92.25	1818.9	1456.5	111.39	1.9485	3.308
92.50	1818.9	1456.6	111.42	1.9459	3.309
92.75	1819.0	1456.7	111.46	1.9434	3.309
93.00	1819.1	1456.7	111.48	1.9409	3.309
93.25	1819.1	1456.8	111.51	1.9383	3.309
93.50	1819.2	1456.9	111.54	1.9358	3.309

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98

TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
93.75	1819.2	1456.9	111.58	1.9333	3.310
94.00	1819.3	1457.0	111.60	1.9309	3.310
94.25	1819.4	1457.0	111.63	1.9284	3.310
94.50	1819.4	1457.1	111.66	1.9259	3.310
94.75	1819.5	1457.1	111.68	1.9235	3.310
95.00	1819.5	1457.2	111.72	1.9211	3.311
95.25	1819.6	1457.3	111.75	1.9186	3.311
95.50	1819.6	1457.3	111.77	1.9162	3.311
95.75	1819.6	1457.3	111.80	1.9138	3.311
96.00	1819.7	1457.4	111.85	1.9115	3.311
96.25	1819.8	1457.4	111.87	1.9091	3.312
96.50	1819.8	1457.5	111.90	1.9067	3.312
96.75	1819.9	1457.6	111.93	1.9044	3.312
97.00	1819.9	1457.6	111.95	1.9021	3.312
97.25	1820.0	1457.7	111.99	1.8997	3.312
97.50	1820.1	1457.7	112.01	1.8974	3.313
97.75	1820.1	1457.8	112.05	1.8951	3.313
98.00	1820.2	1457.8	112.08	1.8929	3.313
98.25	1820.2	1457.9	112.11	1.8906	3.313
98.50	1820.3	1457.9	112.13	1.8883	3.313
98.75	1820.3	1458.0	112.17	1.8861	3.314
99.00	1820.4	1458.0	112.20	1.8838	3.314
99.25	1820.4	1458.1	112.25	1.8816	3.314
99.50	1820.5	1458.2	112.29	1.8794	3.314
99.75	1820.5	1458.2	112.30	1.8772	3.314
100.00	1820.6	1458.3	112.30	1.8750	3.314
100.25	1820.6	1458.3	112.30	1.8728	3.315
100.50	1820.7	1458.3	112.31	1.8706	3.315
100.75	1820.7	1458.4	112.31	1.8685	3.315
101.00	1820.8	1458.5	112.37	1.8663	3.315
101.25	1820.8	1458.5	112.41	1.8642	3.315
101.50	1820.9	1458.6	112.44	1.8621	3.316
101.75	1820.9	1458.6	112.46	1.8600	3.316
102.00	1821.0	1458.7	112.50	1.8578	3.316
102.25	1821.0	1458.7	112.53	1.8557	3.316
102.50	1821.1	1458.8	112.56	1.8537	3.316
102.75	1821.1	1458.8	112.60	1.8516	3.317
103.00	1821.2	1458.9	112.62	1.8495	3.317
103.25	1821.2	1458.9	112.65	1.8475	3.317
103.50	1821.3	1459.0	112.67	1.8454	3.317
103.75	1821.3	1459.0	112.71	1.8434	3.317
104.00	1821.4	1459.0	112.73	1.8413	3.317
104.25	1821.4	1459.1	112.75	1.8393	3.318
104.50	1821.5	1459.2	112.78	1.8373	3.318
104.75	1821.5	1459.2	112.82	1.8353	3.318
105.00	1821.5	1459.2	112.84	1.8333	3.318
105.25	1821.6	1459.3	112.87	1.8314	3.318
105.50	1821.7	1459.3	112.88	1.8294	3.318
105.75	1821.7	1459.4	112.91	1.8274	3.319
106.00	1821.7	1459.4	112.93	1.8255	3.319
106.25	1821.8	1459.5	112.96	1.8235	3.319

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

Time	Pressure PSI	delta P PSI	Temp. DEG F	(T+dT)/dT	P^2/10^6
106.50	1821.8	1459.5	112.99	1.8216	3.319
106.75	1822.9	1460.6	113.02	1.8197	3.323
107.00	1822.9	1460.6	113.04	1.8178	3.323
107.25	1823.0	1460.7	113.07	1.8159	3.323
107.50	1823.0	1460.7	113.10	1.8140	3.323
107.75	1823.1	1460.7	113.12	1.8121	3.324
108.00	1823.1	1460.8	113.15	1.8102	3.324
108.25	1823.2	1460.8	113.17	1.8083	3.324
108.50	1823.2	1460.9	113.20	1.8065	3.324
108.75	1823.3	1461.0	113.22	1.8046	3.324
109.00	1823.3	1461.0	113.24	1.8028	3.324
109.25	1823.3	1461.0	113.26	1.8009	3.325
109.50	1823.4	1461.1	113.30	1.7991	3.325
109.75	1823.4	1461.1	113.32	1.7973	3.325
110.00	1823.5	1461.2	113.34	1.7955	3.325
110.25	1823.5	1461.2	113.37	1.7937	3.325
110.50	1823.6	1461.2	113.40	1.7919	3.325
110.75	1823.6	1461.3	113.42	1.7901	3.326
111.00	1823.6	1461.3	113.44	1.7883	3.326
111.25	1823.7	1461.4	113.47	1.7865	3.326
111.50	1823.7	1461.4	113.50	1.7848	3.326
111.75	1823.8	1461.5	113.52	1.7830	3.326
112.00	1823.8	1461.5	113.54	1.7812	3.326
112.25	1823.9	1461.5	113.56	1.7795	3.326
112.50	1823.9	1461.6	113.59	1.7778	3.327
112.75	1824.0	1461.6	113.61	1.7761	3.327
113.00	1824.0	1461.7	113.63	1.7743	3.327
113.25	1824.1	1461.7	113.65	1.7726	3.327
113.50	1824.1	1461.8	113.68	1.7709	3.327
113.75	1824.1	1461.8	113.71	1.7692	3.327
114.00	1824.2	1461.9	113.72	1.7675	3.328
114.25	1824.2	1461.9	113.76	1.7659	3.328
114.50	1824.2	1461.9	113.78	1.7642	3.328
114.75	1824.3	1462.0	113.80	1.7625	3.328
115.00	1824.3	1462.0	113.82	1.7609	3.328
115.25	1824.3	1462.0	113.84	1.7592	3.328
115.50	1824.4	1462.1	113.87	1.7576	3.328
115.75	1824.5	1462.1	113.90	1.7559	3.329
116.00	1824.5	1462.2	113.92	1.7543	3.329
116.25	1824.5	1462.2	113.95	1.7527	3.329
116.50	1824.6	1462.2	113.97	1.7511	3.329
116.75	1824.6	1462.2	113.99	1.7495	3.329
117.00	1824.6	1462.3	114.02	1.7479	3.329
117.25	1824.7	1462.3	114.05	1.7463	3.329
117.50	1824.7	1462.4	114.06	1.7447	3.329
117.75	1824.7	1462.4	114.09	1.7431	3.330
118.00	1824.8	1462.5	114.11	1.7415	3.330
118.25	1824.8	1462.5	114.13	1.7400	3.330
118.50	1824.8	1462.5	114.15	1.7384	3.330
118.75	1824.9	1462.6	114.18	1.7368	3.330
119.00	1824.9	1462.6	114.20	1.7353	3.330

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10813 D.S.T.#1 MALIN "B-1" ANADARKO PET. CORP.

DATE: 01/04/98 TIME: 08:22:13

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P^2/10^6
		PSI	PSI	DEG F		
	119.25	1824.9	1462.6	114.22	1.7338	3.330
	119.50	1825.0	1462.7	114.24	1.7322	3.331
	119.75	1825.1	1462.7	114.26	1.7307	3.331
	120.00	1825.1	1462.8	114.28	1.7292	3.331
***** End Shut-in 2	120.25	1825.1	1462.8	114.32	1.7277	3.331
***** Final Hydro.	430.75	2744.5	0.0	119.28		

Caraway Analytical, Inc.
728 N. Roosevelt
P. O. Box 2137
Liberal, Kansas 67905
rcaraway@bigfoot.com

Phone 316-624-5389
Fax 316-626-7108
Cellular 316-621-3290

Fractional Analysis

Components		Mol %	GPM
Carbon Dioxide	CO2	0.1061	
Nitrogen	N2	2.0130	
Methane	C1	88.8425	14.9315
Ethane	C2	4.7675	1.2721
Propane	C3	2.3312	0.6409
Iso Butane	iC4	0.3043	0.0993
Normal Butane	nC4	0.6760	0.2126
Iso Pentane	iC5	0.1744	0.0637
Normal Pentane	nC5	0.1982	0.0716
Hexanes Plus	C6+	0.4391	0.1886
Helium	He	0.1477	
Totals		100.0000	17.4803

Date Run 01/05/1998
Lab Number 980002
Company APC
Producer APC
Lease Malin B-1 DST 1
Station 000000
Pressure
Temperature
Cylinder No.
Analysis by Robert Caraway
Sampled by Trilobite Testing
Sample Date
Received 01/05/1998
Location 3-33-32
H2S

Gasoline Content @ 14.65 psia & 60 F

Remarks

Propane & Heavier	1.2767
Butane & Heavier	0.6358
Pentane & Heavier	0.3239

Seward, Kansas
Morrow

BTU @ 14.65 psia & 60 F (Real)

Dry	1108.8
Saturated	1089.5
Z-Factor	0.9974

Results to

Anadarko Petroleum Corp.
Liberal, Kansas
Att: Dale Fiorini/Pat Rich

Specific Gravity	0.6434
Octane Rating	123.9



GAS VOLUME REPORT

Armed & Dangerous
OPERATOR

Model "B-1"

WELL NAME AND NO.

DST NO.

GTS 11 min. into IFP

T.F.P.

FFP

Remarks: Gas Burned

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10813 Date 1-4-98

Company Name Anadarko

Lease Malin "B-1" Test No. 1

County Seward KS. Sec. 3 Twp. 33S Rng. 32W

Total Volume 5000 ML.
SAMPLER RECOVERY

Gas 18.5 Cubic Ft. ~~ML~~

Oil — ML

Mud — ML

Water — ML

Other — ML

Pressure 1250 PSI

Total Vol. Rec. 0 ML

PIT MUD ANALYSIS

Chlorides 3,400 ppm.

Resistivity 2.1 ohms @ 58° F

Viscosity 54

Mud Weight 9.0

Filtrate 8.8

Other 5# L.C.M.

SAMPLER ANALYSIS

Resistivity — ohms @ — F

Chlorides — ppm.

Gravity — corrected @ 60 F

PIPE RECOVERY

TOP

Resistivity — ohms @ — F

Chlorides — ppm.

MIDDLE

Resistivity — ohms @ — F

Chlorides — ppm.

BOTTOM

Resistivity 0.80 ohms @ 59 F

Chlorides 8,800 ppm.