

WELL NAME: Ratzlaff "C" # 2 A
COMPANY: Anadarko Petroleum Corporation
LOCATION: 1-33S-41W
Morton County Kansas
DATE: 10/30/97

TRILOBITE TESTING L.L.C.

OPERATOR : Anadarko Petroleum Corp
WELL NAME: Ratzlaff "C" #2 A
LOCATION : 1-33S-41W Morton Co KS
INTERVAL : 5062.00 To 5180.00 ft

DATE 10-24-97
KB 3404.00 ft TICKET NO: 9803 DST #1
GR 3394.00 ft FORMATION: Lower Morrow
TD 5180.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10993	10993	3024			PF Fr. 1449 to 1519 hr
SI 60 Range(Psi)	4050.0	4050.0	4995.0	0.0	0.0	IS Fr. 1519 to 1619 hr
SF 60 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 1619 to 1719 hr
FS 120 Depth(ft)	5180.0	5180.0	5065.0	0.0	0.0	FS Fr. 1719 to 1919 hr

	Field	1	2	3	4	
A. Init Hydro	2474.0	2487.0	2444.0	0.0	0.0	T STARTED 1215 hr
B. First Flow	271.0	294.0	200.0	0.0	0.0	T ON BOTM 1437 hr
B1. Final Flow	315.0	343.0	276.0	0.0	0.0	T OPEN 1449 hr
C. In Shut-in	661.0	674.0	642.0	0.0	0.0	T PULLED 1919 hr
D. Init Flow	260.0	271.0	177.0	0.0	0.0	T OUT 2300 hr
E. Final Flow	293.0	307.0	256.0	0.0	0.0	
F. Fl Shut-in	683.0	1794.0	644.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2378.0	2433.0	2359.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 36000.00 lbs
						Wt Pulled Loose 140000.00 lbs
						Initial Str Wt 116000.00 lbs
						Unseated Str Wt 118000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.68 in
						D.C. Length 721.00 ft
						D.P. Length 4366.00 ft

RECOVERY

Tot Fluid 545.00 ft of 545.00 ft in DC and 0.00 ft in DP
5057.00 ft of Gas In Pipe
0.00 ft of
5.00 ft of Slightly Gassy Mud
0.00 ft of 10%gas 90%mud
300.00 ft of Gassy Mud
0.00 ft of 60%gas 40%mud
240.00 ft of Gassy Mud
0.00 ft of 30%gas 70%mud
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initila Flow:
Strong blow, bottom of bucket in
4 mins, Gas to Surface in 15 mins

Initial Shut In:
Blow back buit to 2" in bucket

Final Shut In:
Bottom of bucket as soon as opened

Final Shut In:
Blow back built to 3" in bucket

SAMPLES: Gas
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 8.90 lb/c
Vis. 47.00 S/L
W.L. 9.20 in3
F.C. 5.00 in
Mud Drop Y 45.0 ft

Amt. of fill 0.00 ft
Btm. H. Temp. 123.00 F
Hole Condition Good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Darold Hibler
Co. Rep. Ed Grievs
Contr. Cheyenne
Rig # 7
Unit #
Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Ratzlaff "C" #2 A

LOCATION : 1-33S-41W Morton Co KS

TICKET No. 9803 D.S.T. No. 1 DATE 10-24-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 118

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 148

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 148

D.C. ABOVE TOOLS.Stands12 Single Total 721

D.P. ABOVE TOOLS.Stands70 Single Total 4336

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5205

TOTAL DEPTH 5180

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

Sampler Data

Gas- 7cu.ft.

Mud-3000ml

Pressure-248lbs

Total-4000ml

P.O. SUB Top of tool		5032
C.O. SUB D.P.	1FT	5033
S.I. TOOL Sterling	5FT	5038
Sampler	3FT	5041
HMV Sterling	5FT	5046
JARS Bowen	5FT	5051
SAFETY JOINT Bowen	2FT	5053
PACKER Top	5FT	5058
PACKER Bottom	5FT	5062
DEPTH 5062		
STUBB	1FT	5063
ANCHOR perf	1FT	5064
Alpine Rec. @	5065	
PUS	5FT	5069
perf	15FT	5084
T.C.		
DEPTH		
CO.	1FT	5085
DP.	90FT	5175
CO.	1FT	5176
BULLNOSE AK-1 Rec. @	5180	
T.D. BP.	5FT	5180

GAS RECOVERY

COMPANY: Anadarko Petroleum Corp DATE: 10-24-97
WELL NAME: Ratzlaff "C" #2 A KB Elev: 3404.00 ft TICKET #9803 DST #1
WELL LOCATION: 1-33S-41W Morton Co KS GR Elev: 3394.00 ft FORMATION: Lower Morrow
INTERVAL Fr.: 5062.00 To 5180.00 T.D.: 5180.00 ft TEST TYPE: CONV

GAS RECOVERY MEASURED WITH Merla Data

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	4	0	156000.0
10	0.75	4	0	156000.0
15	0.75	4	0	156000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	19	0	384000.0
20	0.75	22	0	424000.0
30	0.75	26	0	473000.0
40	0.75	30	0	522000.0
50	0.75	30	0	522000.0
60	0.75	31	0	534000.0

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	0.3224	
Nitrogen	N2	2.7355	
Methane	C1	90.4454	15.2009
Ethane	C2	3.1432	0.8387
Propane	C3	1.3965	0.3839
Iso Butane	iC4	0.2192	0.0715
Normal Butane	nC4	0.4662	0.1466
Iso Pentane	iC5	0.1627	0.0594
Normal Pentane	nC5	0.1904	0.0688
Hexanes Plus	C6+	0.6239	0.2680
Helium	He	0.2946	
Totals		100.0000	17.0378

Date Run 10/25/1997
Lab Number 973063
Company APC
Producer APC
Lease Ractlaff C2-A DST
Station 000000
Pressure
Temperature
Cylinder No.
Analysis by Robert Caraway
Sampled by Trilobite Testing
Sample Date
Received 10/25/1997
Location 1-33S-41W Mt
H2S

Gasoline Content @ 14.65 psia & 60 F

Remarks

Propane & Heavier	0.9982
Butane & Heavier	0.6143
Pentane & Heavier	0.3962

Lower Morrow

BTU @ 14.65 psia & 60 F (Real)

Results to

Dry	1071.5
Saturated	1052.8
Z-Factor	0.9976

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

Specific Gravity	0.6293
Octane Rating	123.2

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko
 DATE: 10/24/97 TIME: 12:21:33

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	145.25	2443.8	0.0	118.71		
***** Start Flow 1	0.00	199.7	0.0	119.42		
	0.25	214.8	15.0	119.51		
	0.50	218.6	18.8	119.63		
	0.75	266.2	66.5	119.78		
	1.00	237.6	37.9	119.95		
	1.25	243.9	44.2	120.16		
	1.50	267.6	67.9	120.39		
	1.75	351.7	152.0	120.65		
	2.00	313.1	113.4	120.90		
	2.25	385.5	185.8	121.20		
	2.50	390.8	191.1	121.45		
	2.75	311.0	111.3	121.73		
	3.00	294.4	94.7	121.99		
	3.25	285.2	85.5	122.24		
	3.50	280.0	80.3	122.50		
	3.75	283.0	83.3	122.74		
	4.00	283.3	83.6	122.96		
	4.25	281.1	81.4	123.20		
	4.50	280.4	80.6	123.42		
	4.75	279.9	80.2	123.64		
	5.00	279.8	80.1	123.85		
	5.25	279.7	80.0	124.04		
	5.50	280.5	80.8	124.23		
	5.75	280.1	80.4	124.43		
	6.00	280.8	81.1	124.61		
	6.25	281.7	82.0	124.78		
	6.50	283.3	83.6	124.93		
	6.75	283.5	83.8	125.09		
	7.00	283.4	83.7	125.24		
	7.25	283.5	83.8	125.38		
	7.50	283.6	83.9	125.51		
	7.75	284.3	84.6	125.63		
	8.00	285.0	85.3	125.75		
	8.25	284.0	84.3	125.87		
	8.50	283.8	84.0	125.98		
	8.75	282.5	82.8	126.08		
	9.00	281.8	82.1	126.19		
	9.25	281.6	81.9	126.29		
	9.50	280.2	80.5	126.37		
	9.75	279.9	80.2	126.46		
	10.00	280.5	80.8	126.54		
	10.25	280.1	80.4	126.62		
	10.50	280.5	80.7	126.70		
	10.75	280.1	80.4	126.76		
	11.00	280.9	81.2	126.84		
	11.25	281.5	81.8	126.91		
	11.50	282.1	82.4	126.97		
	11.75	282.7	83.0	127.04		
	12.00	283.7	84.0	127.10		
	12.25	284.3	84.6	127.16		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
12.50	285.5	85.7	127.22		
12.75	285.6	85.8	127.28		
13.00	286.3	86.6	127.34		
13.25	285.6	85.9	127.40		
13.50	284.9	85.2	127.43		
13.75	283.7	84.0	127.50		
14.00	283.5	83.8	127.54		
14.25	282.7	83.0	127.58		
14.50	280.9	81.2	127.63		
14.75	281.3	81.6	127.67		
15.00	280.7	81.0	127.73		
15.25	280.3	80.5	127.76		
15.50	278.4	78.7	127.81		
15.75	278.7	79.0	127.85		
16.00	279.2	79.5	127.88		
16.25	279.0	79.2	127.93		
16.50	279.3	79.6	127.96		
16.75	278.8	79.1	127.99		
17.00	278.9	79.1	128.04		
17.25	277.6	77.9	128.07		
17.50	274.9	75.2	128.10		
17.75	275.5	75.8	128.14		
18.00	274.6	74.9	128.18		
18.25	274.7	75.0	128.20		
18.50	274.7	75.0	128.24		
18.75	275.2	75.4	128.26		
19.00	275.8	76.1	128.30		
19.25	275.9	76.2	128.33		
19.50	276.0	76.3	128.35		
19.75	277.0	77.3	128.39		
20.00	277.6	77.9	128.43		
20.25	277.6	77.9	128.45		
20.50	278.9	79.2	128.49		
20.75	278.9	79.2	128.52		
21.00	280.2	80.4	128.54		
21.25	279.4	79.7	128.57		
21.50	280.7	81.0	128.60		
21.75	280.9	81.2	128.62		
22.00	281.2	81.5	128.64		
22.25	281.6	81.9	128.67		
22.50	280.0	80.3	128.69		
22.75	280.0	80.3	128.71		
23.00	279.2	79.5	128.74		
23.25	272.7	73.0	128.76		
23.50	268.0	68.3	128.78		
23.75	271.1	71.3	128.80		
24.00	272.6	72.9	128.82		
24.25	271.7	72.0	128.83		
24.50	272.7	73.0	128.85		
24.75	270.6	70.9	128.87		
25.00	271.9	72.2	128.89		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.25	275.6	75.9	128.91		
	25.50	275.2	75.4	128.91		
	25.75	274.7	75.0	128.94		
	26.00	274.8	75.1	128.95		
	26.25	275.8	76.0	128.97		
	26.50	273.7	73.9	129.00		
	26.75	278.9	79.1	129.00		
	27.00	276.6	76.8	129.02		
	27.25	276.0	76.3	129.04		
	27.50	276.8	77.1	129.05		
	27.75	277.8	78.1	129.05		
	28.00	273.2	73.4	129.07		
	28.25	277.8	78.1	129.10		
	28.50	272.4	72.7	129.10		
	28.75	272.5	72.8	129.11		
	29.00	278.8	79.1	129.13		
	29.25	275.6	75.9	129.13		
	29.50	273.7	74.0	129.15		
	29.75	271.5	71.8	129.16		
***** End Flow 1	30.00	276.3	76.6	129.17		
***** Start Shutin 1	0.00	276.3	0.0	129.17	0.0000	0.076
	0.25	356.2	79.8	129.19	121.0000	0.127
	0.50	421.9	145.6	129.21	61.0000	0.178
	0.75	472.3	196.0	129.23	41.0000	0.223
	1.00	510.4	234.1	129.28	31.0000	0.260
	1.25	539.0	262.7	129.36	25.0000	0.291
	1.50	560.4	284.1	129.47	21.0000	0.314
	1.75	576.7	300.4	129.59	18.1429	0.333
	2.00	589.0	312.6	129.75	16.0000	0.347
	2.25	598.3	322.0	129.89	14.3333	0.358
	2.50	605.4	329.0	130.06	13.0000	0.366
	2.75	610.8	334.4	130.22	11.9091	0.373
	3.00	615.0	338.7	130.40	11.0000	0.378
	3.25	618.2	341.9	130.56	10.2308	0.382
	3.50	620.8	344.5	130.70	9.5714	0.385
	3.75	622.9	346.6	130.85	9.0000	0.388
	4.00	624.5	348.2	130.97	8.5000	0.390
	4.25	625.9	349.5	131.08	8.0588	0.392
	4.50	627.0	350.6	131.19	7.6667	0.393
	4.75	627.9	351.6	131.29	7.3158	0.394
	5.00	628.7	352.4	131.37	7.0000	0.395
	5.25	629.4	353.0	131.45	6.7143	0.396
	5.50	629.9	353.6	131.50	6.4545	0.397
	5.75	630.5	354.2	131.56	6.2174	0.398
	6.00	631.0	354.6	131.62	6.0000	0.398
	6.25	631.4	355.1	131.65	5.8000	0.399
	6.50	631.8	355.5	131.69	5.6154	0.399
	6.75	632.1	355.8	131.72	5.4444	0.400
	7.00	632.5	356.1	131.75	5.2857	0.400
	7.25	632.8	356.5	131.75	5.1379	0.400
	7.50	633.1	356.7	131.78	5.0000	0.401

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
7.75	633.3	357.0	131.78	4.8710	0.401
8.00	633.5	357.2	131.79	4.7500	0.401
8.25	633.8	357.5	131.80	4.6364	0.402
8.50	634.0	357.7	131.81	4.5294	0.402
8.75	634.2	357.9	131.81	4.4286	0.402
9.00	634.4	358.0	131.81	4.3333	0.402
9.25	634.5	358.2	131.80	4.2432	0.403
9.50	634.7	358.4	131.80	4.1579	0.403
9.75	634.8	358.5	131.80	4.0769	0.403
10.00	635.0	358.6	131.79	4.0000	0.403
10.25	635.1	358.8	131.77	3.9268	0.403
10.50	635.2	358.9	131.78	3.8571	0.404
10.75	635.3	359.0	131.76	3.7907	0.404
11.00	635.4	359.1	131.75	3.7273	0.404
11.25	635.5	359.2	131.75	3.6667	0.404
11.50	635.7	359.3	131.74	3.6087	0.404
11.75	635.7	359.4	131.73	3.5532	0.404
12.00	635.8	359.5	131.72	3.5000	0.404
12.25	635.9	359.6	131.70	3.4490	0.404
12.50	636.0	359.7	131.71	3.4000	0.405
12.75	636.1	359.8	131.69	3.3529	0.405
13.00	636.1	359.8	131.69	3.3077	0.405
13.25	636.2	359.9	131.68	3.2642	0.405
13.50	636.3	360.0	131.67	3.2222	0.405
13.75	636.4	360.0	131.66	3.1818	0.405
14.00	636.4	360.1	131.65	3.1429	0.405
14.25	636.5	360.2	131.64	3.1053	0.405
14.50	636.5	360.2	131.63	3.0690	0.405
14.75	636.6	360.3	131.62	3.0339	0.405
15.00	636.7	360.4	131.60	3.0000	0.405
15.25	636.8	360.4	131.60	2.9672	0.405
15.50	636.8	360.5	131.60	2.9355	0.406
15.75	636.9	360.6	131.59	2.9048	0.406
16.00	636.9	360.6	131.58	2.8750	0.406
16.25	637.0	360.6	131.57	2.8462	0.406
16.50	637.0	360.7	131.56	2.8182	0.406
16.75	637.1	360.7	131.55	2.7910	0.406
17.00	637.1	360.8	131.56	2.7647	0.406
17.25	637.1	360.8	131.55	2.7391	0.406
17.50	637.2	360.9	131.54	2.7143	0.406
17.75	637.2	360.9	131.54	2.6901	0.406
18.00	637.3	361.0	131.52	2.6667	0.406
18.25	637.3	361.0	131.52	2.6438	0.406
18.50	637.4	361.0	131.52	2.6216	0.406
18.75	637.4	361.1	131.51	2.6000	0.406
19.00	637.4	361.1	131.50	2.5789	0.406
19.25	637.5	361.2	131.50	2.5584	0.406
19.50	637.5	361.2	131.50	2.5385	0.406
19.75	637.5	361.2	131.50	2.5190	0.406
20.00	637.6	361.3	131.49	2.5000	0.406
20.25	637.6	361.3	131.48	2.4815	0.407

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko
 DATE: 10/24/97 TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
20.50	637.6	361.3	131.48	2.4634	0.407
20.75	637.7	361.4	131.47	2.4458	0.407
21.00	637.7	361.4	131.48	2.4286	0.407
21.25	637.7	361.4	131.46	2.4118	0.407
21.50	637.7	361.4	131.46	2.3953	0.407
21.75	637.8	361.4	131.45	2.3793	0.407
22.00	637.8	361.5	131.45	2.3636	0.407
22.25	637.8	361.5	131.45	2.3483	0.407
22.50	637.8	361.5	131.44	2.3333	0.407
22.75	637.9	361.6	131.45	2.3187	0.407
23.00	637.9	361.6	131.44	2.3043	0.407
23.25	637.9	361.6	131.44	2.2903	0.407
23.50	638.0	361.6	131.42	2.2766	0.407
23.75	638.0	361.7	131.44	2.2632	0.407
24.00	638.0	361.7	131.42	2.2500	0.407
24.25	638.0	361.7	131.42	2.2371	0.407
24.50	638.1	361.8	131.42	2.2245	0.407
24.75	638.1	361.8	131.41	2.2121	0.407
25.00	638.1	361.8	131.42	2.2000	0.407
25.25	638.2	361.9	131.41	2.1881	0.407
25.50	638.2	361.9	131.40	2.1765	0.407
25.75	638.2	361.9	131.41	2.1650	0.407
26.00	638.3	362.0	131.40	2.1538	0.407
26.25	638.3	362.0	131.40	2.1429	0.407
26.50	638.4	362.0	131.40	2.1321	0.407
26.75	638.4	362.0	131.39	2.1215	0.407
27.00	638.4	362.1	131.40	2.1111	0.408
27.25	638.4	362.1	131.39	2.1009	0.408
27.50	638.5	362.1	131.39	2.0909	0.408
27.75	638.5	362.2	131.39	2.0811	0.408
28.00	638.5	362.2	131.39	2.0714	0.408
28.25	638.6	362.2	131.39	2.0619	0.408
28.50	638.6	362.3	131.39	2.0526	0.408
28.75	638.6	362.3	131.39	2.0435	0.408
29.00	638.7	362.3	131.38	2.0345	0.408
29.25	638.7	362.4	131.39	2.0256	0.408
29.50	638.7	362.4	131.39	2.0169	0.408
29.75	638.7	362.4	131.38	2.0084	0.408
30.00	638.8	362.5	131.38	2.0000	0.408
30.25	638.8	362.5	131.38	1.9917	0.408
30.50	638.8	362.5	131.38	1.9836	0.408
30.75	638.9	362.5	131.39	1.9756	0.408
31.00	638.9	362.6	131.38	1.9677	0.408
31.25	638.9	362.6	131.37	1.9600	0.408
31.50	638.9	362.6	131.38	1.9524	0.408
31.75	638.9	362.6	131.37	1.9449	0.408
32.00	638.9	362.6	131.37	1.9375	0.408
32.25	639.0	362.7	131.38	1.9302	0.408
32.50	639.0	362.7	131.37	1.9231	0.408
32.75	639.1	362.7	131.37	1.9160	0.408
33.00	639.1	362.8	131.36	1.9091	0.408

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
33.25	639.2	362.8	131.37	1.9023	0.409
33.50	639.2	362.9	131.36	1.8955	0.409
33.75	639.2	362.9	131.37	1.8889	0.409
34.00	639.2	362.9	131.36	1.8824	0.409
34.25	639.3	363.0	131.37	1.8759	0.409
34.50	639.3	363.0	131.37	1.8696	0.409
34.75	639.3	363.0	131.37	1.8633	0.409
35.00	639.4	363.0	131.37	1.8571	0.409
35.25	639.3	363.0	131.37	1.8511	0.409
35.50	639.4	363.1	131.37	1.8451	0.409
35.75	639.4	363.1	131.37	1.8392	0.409
36.00	639.5	363.2	131.37	1.8333	0.409
36.25	639.5	363.2	131.36	1.8276	0.409
36.50	639.5	363.2	131.36	1.8219	0.409
36.75	639.6	363.3	131.37	1.8163	0.409
37.00	639.6	363.3	131.36	1.8108	0.409
37.25	639.7	363.3	131.36	1.8054	0.409
37.50	639.7	363.4	131.36	1.8000	0.409
37.75	639.7	363.4	131.36	1.7947	0.409
38.00	639.7	363.4	131.36	1.7895	0.409
38.25	639.8	363.5	131.36	1.7843	0.409
38.50	639.8	363.5	131.36	1.7792	0.409
38.75	639.8	363.5	131.36	1.7742	0.409
39.00	639.8	363.5	131.36	1.7692	0.409
39.25	639.9	363.6	131.36	1.7643	0.409
39.50	639.9	363.6	131.37	1.7595	0.409
39.75	639.9	363.6	131.37	1.7547	0.409
40.00	639.9	363.6	131.36	1.7500	0.410
40.25	640.0	363.7	131.36	1.7453	0.410
40.50	640.0	363.7	131.36	1.7407	0.410
40.75	640.0	363.7	131.36	1.7362	0.410
41.00	640.0	363.7	131.37	1.7317	0.410
41.25	640.1	363.8	131.37	1.7273	0.410
41.50	640.1	363.8	131.37	1.7229	0.410
41.75	640.1	363.8	131.37	1.7186	0.410
42.00	640.1	363.8	131.38	1.7143	0.410
42.25	640.2	363.9	131.38	1.7101	0.410
42.50	640.2	363.9	131.38	1.7059	0.410
42.75	640.2	363.9	131.38	1.7018	0.410
43.00	640.2	363.9	131.39	1.6977	0.410
43.25	640.3	363.9	131.39	1.6936	0.410
43.50	640.3	364.0	131.39	1.6897	0.410
43.75	640.3	364.0	131.39	1.6857	0.410
44.00	640.3	364.0	131.39	1.6818	0.410
44.25	640.3	364.0	131.40	1.6780	0.410
44.50	640.4	364.0	131.39	1.6742	0.410
44.75	640.4	364.1	131.40	1.6704	0.410
45.00	640.4	364.1	131.39	1.6667	0.410
45.25	640.4	364.1	131.39	1.6630	0.410
45.50	640.4	364.1	131.39	1.6593	0.410
45.75	640.5	364.2	131.39	1.6557	0.410

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
46.00	640.5	364.2	131.40	1.6522	0.410
46.25	640.5	364.2	131.40	1.6486	0.410
46.50	640.5	364.2	131.40	1.6452	0.410
46.75	640.5	364.2	131.41	1.6417	0.410
47.00	640.6	364.3	131.41	1.6383	0.410
47.25	640.6	364.3	131.41	1.6349	0.410
47.50	640.6	364.3	131.41	1.6316	0.410
47.75	640.6	364.3	131.40	1.6283	0.410
48.00	640.6	364.3	131.41	1.6250	0.410
48.25	640.7	364.3	131.42	1.6218	0.410
48.50	640.7	364.4	131.42	1.6186	0.410
48.75	640.7	364.4	131.41	1.6154	0.410
49.00	640.7	364.4	131.41	1.6122	0.411
49.25	640.7	364.4	131.42	1.6091	0.411
49.50	640.8	364.5	131.42	1.6061	0.411
49.75	640.8	364.4	131.42	1.6030	0.411
50.00	640.8	364.5	131.42	1.6000	0.411
50.25	640.8	364.5	131.42	1.5970	0.411
50.50	640.8	364.5	131.42	1.5941	0.411
50.75	640.9	364.5	131.42	1.5911	0.411
51.00	640.9	364.5	131.43	1.5882	0.411
51.25	640.9	364.6	131.42	1.5854	0.411
51.50	640.9	364.6	131.42	1.5825	0.411
51.75	640.9	364.6	131.42	1.5797	0.411
52.00	640.9	364.6	131.43	1.5769	0.411
52.25	640.9	364.6	131.43	1.5742	0.411
52.50	640.9	364.6	131.43	1.5714	0.411
52.75	641.0	364.7	131.43	1.5687	0.411
53.00	641.0	364.7	131.43	1.5660	0.411
53.25	641.0	364.7	131.43	1.5634	0.411
53.50	641.0	364.7	131.43	1.5607	0.411
53.75	641.0	364.7	131.43	1.5581	0.411
54.00	641.1	364.7	131.45	1.5556	0.411
54.25	641.1	364.7	131.44	1.5530	0.411
54.50	641.1	364.8	131.45	1.5505	0.411
54.75	641.1	364.8	131.44	1.5479	0.411
55.00	641.1	364.8	131.45	1.5455	0.411
55.25	641.1	364.8	131.45	1.5430	0.411
55.50	641.1	364.8	131.44	1.5405	0.411
55.75	641.2	364.8	131.46	1.5381	0.411
56.00	641.2	364.8	131.46	1.5357	0.411
56.25	641.2	364.9	131.45	1.5333	0.411
56.50	641.2	364.9	131.46	1.5310	0.411
56.75	641.2	364.9	131.45	1.5286	0.411
57.00	641.2	364.9	131.45	1.5263	0.411
57.25	641.2	364.9	131.45	1.5240	0.411
57.50	641.3	364.9	131.46	1.5217	0.411
57.75	641.3	364.9	131.46	1.5195	0.411
58.00	641.3	365.0	131.47	1.5172	0.411
58.25	641.3	365.0	131.47	1.5150	0.411
58.50	641.3	365.0	131.46	1.5128	0.411

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	58.75	641.3	365.0	131.47	1.5106	0.411
	59.00	641.3	365.0	131.47	1.5085	0.411
	59.25	641.3	365.0	131.47	1.5063	0.411
	59.50	641.4	365.0	131.47	1.5042	0.411
	59.75	641.4	365.1	131.48	1.5021	0.411
	60.00	641.4	365.1	131.47	1.5000	0.411
	60.25	641.4	365.1	131.48	1.4979	0.411
	60.50	641.4	365.1	131.48	1.4959	0.411
	60.75	641.4	365.1	131.49	1.4938	0.411
	61.00	641.4	365.1	131.48	1.4918	0.411
	61.25	641.5	365.1	131.50	1.4898	0.411
	61.50	641.4	365.1	131.49	1.4878	0.411
	61.75	641.5	365.2	131.49	1.4858	0.411
	62.00	641.5	365.2	131.49	1.4839	0.412
	62.25	641.5	365.2	131.50	1.4819	0.412
***** End Shut-in 1	62.50	641.5	365.2	131.50	1.4800	0.412
***** Start Flow 2	0.00	176.8	0.0	129.51		
	0.25	177.1	0.3	129.49		
	0.50	177.6	0.8	129.47		
	0.75	178.7	2.0	129.45		
	1.00	180.1	3.3	129.45		
	1.25	180.9	4.2	129.47		
	1.50	182.2	5.4	129.48		
	1.75	184.3	7.5	129.51		
	2.00	189.0	12.2	129.54		
	2.25	192.0	15.2	129.57		
	2.50	193.2	16.4	129.61		
	2.75	196.8	20.0	129.64		
	3.00	198.7	21.9	129.68		
	3.25	203.3	26.5	129.74		
	3.50	206.2	29.4	129.78		
	3.75	206.9	30.2	129.81		
	4.00	215.0	38.3	129.86		
	4.25	213.9	37.1	129.90		
	4.50	214.4	37.6	129.95		
	4.75	220.5	43.7	130.00		
	5.00	221.0	44.3	130.05		
	5.25	221.3	44.5	130.08		
	5.50	224.7	48.0	130.12		
	5.75	223.7	46.9	130.15		
	6.00	226.9	50.1	130.19		
	6.25	225.3	48.5	130.22		
	6.50	226.3	49.5	130.26		
	6.75	224.4	47.6	130.30		
	7.00	225.0	48.2	130.33		
	7.25	226.7	49.9	130.36		
	7.50	225.2	48.4	130.38		
	7.75	228.7	51.9	130.42		
	8.00	229.2	52.4	130.45		
	8.25	230.5	53.7	130.46		
	8.50	232.8	56.0	130.49		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
8.75	231.9	55.1	130.51		
9.00	231.1	54.3	130.53		
9.25	231.0	54.3	130.55		
9.50	234.4	57.7	130.58		
9.75	231.8	55.0	130.60		
10.00	231.4	54.6	130.61		
10.25	232.9	56.1	130.64		
10.50	230.6	53.9	130.65		
10.75	232.6	55.9	130.66		
11.00	232.7	55.9	130.67		
11.25	230.2	53.4	130.68		
11.50	231.4	54.7	130.69		
11.75	233.8	57.1	130.71		
12.00	233.1	56.3	130.72		
12.25	233.7	56.9	130.73		
12.50	235.0	58.3	130.73		
12.75	234.6	57.8	130.74		
13.00	236.2	59.5	130.75		
13.25	236.8	60.0	130.76		
13.50	235.8	59.0	130.76		
13.75	237.7	61.0	130.76		
14.00	238.6	61.8	130.77		
14.25	236.6	59.8	130.78		
14.50	238.1	61.4	130.79		
14.75	233.9	57.2	130.79		
15.00	235.7	58.9	130.80		
15.25	235.4	58.6	130.80		
15.50	233.8	57.0	130.81		
15.75	234.1	57.4	130.80		
16.00	236.1	59.4	130.81		
16.25	238.6	61.8	130.81		
16.50	237.4	60.7	130.82		
16.75	238.4	61.6	130.82		
17.00	237.8	61.1	130.83		
17.25	237.2	60.5	130.83		
17.50	240.5	63.8	130.84		
17.75	240.4	63.6	130.83		
18.00	239.5	62.7	130.84		
18.25	239.6	62.8	130.84		
18.50	240.3	63.5	130.85		
18.75	240.0	63.2	130.83		
19.00	240.4	63.7	130.84		
19.25	241.2	64.4	130.84		
19.50	242.1	65.4	130.85		
19.75	240.9	64.2	130.84		
20.00	242.6	65.8	130.85		
20.25	241.2	64.4	130.84		
20.50	240.7	64.0	130.85		
20.75	242.6	65.9	130.84		
21.00	242.4	65.6	130.84		
21.25	241.8	65.0	130.84		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97 TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
21.50	243.8	67.1	130.84		
21.75	241.9	65.1	130.84		
22.00	242.4	65.6	130.84		
22.25	245.4	68.6	130.84		
22.50	240.9	64.2	130.84		
22.75	243.9	67.1	130.85		
23.00	242.6	65.8	130.84		
23.25	243.3	66.5	130.84		
23.50	244.1	67.3	130.84		
23.75	244.7	68.0	130.84		
24.00	243.0	66.3	130.84		
24.25	244.6	67.8	130.84		
24.50	248.4	71.6	130.82		
24.75	245.9	69.2	130.84		
25.00	245.9	69.2	130.83		
25.25	247.9	71.2	130.83		
25.50	243.7	66.9	130.83		
25.75	246.4	69.7	130.83		
26.00	244.1	67.3	130.83		
26.25	245.9	69.1	130.83		
26.50	245.2	68.4	130.83		
26.75	244.0	67.2	130.82		
27.00	246.3	69.6	130.82		
27.25	245.3	68.5	130.81		
27.50	245.3	68.5	130.81		
27.75	245.3	68.5	130.80		
28.00	246.7	69.9	130.80		
28.25	245.5	68.8	130.80		
28.50	246.4	69.6	130.80		
28.75	245.6	68.8	130.79		
29.00	246.3	69.5	130.79		
29.25	245.5	68.7	130.79		
29.50	246.9	70.1	130.78		
29.75	246.5	69.7	130.79		
30.00	249.0	72.2	130.77		
30.25	247.4	70.6	130.78		
30.50	248.8	72.1	130.77		
30.75	249.2	72.4	130.78		
31.00	249.1	72.4	130.76		
31.25	249.1	72.3	130.77		
31.50	248.9	72.1	130.77		
31.75	250.2	73.4	130.76		
32.00	247.2	70.4	130.76		
32.25	248.1	71.4	130.76		
32.50	248.4	71.7	130.75		
32.75	246.8	70.1	130.76		
33.00	249.1	72.4	130.74		
33.25	249.7	73.0	130.75		
33.50	249.3	72.5	130.75		
33.75	248.4	71.7	130.75		
34.00	249.5	72.7	130.74		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko
 DATE: 10/24/97 TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
34.25	247.3	70.5	130.74		
34.50	248.6	71.8	130.74		
34.75	250.6	73.9	130.73		
35.00	249.7	72.9	130.73		
35.25	251.3	74.6	130.72		
35.50	249.6	72.8	130.73		
35.75	248.3	71.5	130.73		
36.00	250.3	73.5	130.71		
36.25	249.6	72.9	130.71		
36.50	247.1	70.4	130.71		
36.75	247.4	70.6	130.71		
37.00	248.6	71.9	130.71		
37.25	248.5	71.7	130.71		
37.50	247.2	70.4	130.70		
37.75	247.3	70.6	130.69		
38.00	248.9	72.1	130.70		
38.25	248.8	72.0	130.69		
38.50	247.0	70.3	130.69		
38.75	248.3	71.5	130.71		
39.00	248.8	72.0	130.69		
39.25	248.3	71.5	130.69		
39.50	246.7	69.9	130.68		
39.75	246.2	69.4	130.68		
40.00	247.8	71.0	130.67		
40.25	247.3	70.5	130.67		
40.50	247.9	71.2	130.66		
40.75	250.5	73.8	130.66		
41.00	248.2	71.4	130.66		
41.25	250.3	73.5	130.66		
41.50	251.9	75.1	130.65		
41.75	249.8	73.0	130.65		
42.00	251.1	74.4	130.65		
42.25	250.1	73.4	130.64		
42.50	251.2	74.4	130.65		
42.75	252.6	75.8	130.64		
43.00	251.0	74.2	130.63		
43.25	250.6	73.9	130.63		
43.50	253.2	76.4	130.62		
43.75	249.2	72.4	130.62		
44.00	250.5	73.7	130.62		
44.25	250.7	73.9	130.62		
44.50	250.9	74.2	130.61		
44.75	251.8	75.1	130.62		
45.00	252.7	75.9	130.60		
45.25	250.7	73.9	130.60		
45.50	253.4	76.7	130.60		
45.75	252.1	75.4	130.60		
46.00	252.7	76.0	130.58		
46.25	252.6	75.8	130.58		
46.50	252.3	75.5	130.59		
46.75	256.5	79.7	130.58		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	47.00	251.9	75.1	130.58		
	47.25	252.0	75.2	130.58		
	47.50	252.5	75.7	130.56		
	47.75	251.2	74.4	130.56		
	48.00	251.8	75.1	130.57		
	48.25	251.0	74.3	130.56		
	48.50	251.3	74.5	130.56		
	48.75	251.8	75.0	130.55		
	49.00	252.0	75.3	130.55		
	49.25	251.8	75.1	130.54		
	49.50	252.5	75.7	130.53		
	49.75	253.5	76.8	130.53		
	50.00	254.3	77.5	130.54		
	50.25	252.8	76.1	130.53		
	50.50	255.4	78.7	130.53		
	50.75	253.6	76.9	130.53		
	51.00	256.2	79.4	130.52		
	51.25	254.7	77.9	130.52		
	51.50	254.3	77.6	130.51		
	51.75	254.8	78.0	130.51		
	52.00	254.2	77.4	130.50		
	52.25	254.4	77.6	130.49		
	52.50	254.6	77.8	130.49		
	52.75	256.8	80.0	130.49		
	53.00	254.8	78.0	130.48		
	53.25	258.0	81.2	130.48		
	53.50	256.6	79.8	130.48		
	53.75	258.2	81.4	130.48		
	54.00	255.5	78.7	130.47		
	54.25	256.5	79.8	130.46		
	54.50	255.1	78.3	130.46		
	54.75	254.6	77.8	130.45		
*****	End Flow 2	55.00	255.7	79.0	130.45	
*****	Start Shutin 2	0.00	255.7	0.0	130.45	0.0000 0.065
		0.25	254.1	-1.6	130.44	341.0000 0.065
		0.50	325.3	69.6	130.44	171.0000 0.106
		0.75	428.3	172.5	130.45	114.3333 0.183
		1.00	497.6	241.9	130.49	86.0000 0.248
		1.25	542.9	287.2	130.55	69.0000 0.295
		1.50	571.6	315.9	130.65	57.6667 0.327
		1.75	589.6	333.9	130.77	49.5714 0.348
		2.00	600.8	345.0	130.91	43.5000 0.361
		2.25	607.9	352.2	131.05	38.7778 0.370
		2.50	612.7	356.9	131.21	35.0000 0.375
		2.75	616.0	360.3	131.37	31.9091 0.379
		3.00	618.5	362.7	131.51	29.3333 0.382
		3.25	620.4	364.7	131.67	27.1538 0.385
		3.50	622.0	366.2	131.80	25.2857 0.387
		3.75	623.3	367.5	131.92	23.6667 0.388
		4.00	624.4	368.6	132.03	22.2500 0.390
		4.25	625.3	369.5	132.14	21.0000 0.391

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
4.50	626.1	370.3	132.21	19.8889	0.392
4.75	626.8	371.1	132.31	18.8947	0.393
5.00	627.4	371.6	132.36	18.0000	0.394
5.25	627.9	372.2	132.42	17.1905	0.394
5.50	628.4	372.7	132.48	16.4545	0.395
5.75	628.9	373.2	132.51	15.7826	0.396
6.00	629.3	373.5	132.55	15.1667	0.396
6.25	629.7	373.9	132.58	14.6000	0.396
6.50	630.1	374.3	132.62	14.0769	0.397
6.75	630.4	374.6	132.64	13.5926	0.397
7.00	630.7	374.9	132.66	13.1429	0.398
7.25	630.9	375.2	132.67	12.7241	0.398
7.50	631.2	375.5	132.68	12.3333	0.398
7.75	631.5	375.7	132.70	11.9677	0.399
8.00	631.7	376.0	132.70	11.6250	0.399
8.25	631.9	376.2	132.71	11.3030	0.399
8.50	632.2	376.4	132.71	11.0000	0.400
8.75	632.4	376.6	132.73	10.7143	0.400
9.00	632.5	376.8	132.71	10.4444	0.400
9.25	632.7	377.0	132.72	10.1892	0.400
9.50	632.9	377.2	132.71	9.9474	0.401
9.75	633.1	377.4	132.72	9.7179	0.401
10.00	633.2	377.5	132.70	9.5000	0.401
10.25	633.4	377.7	132.71	9.2927	0.401
10.50	633.6	377.9	132.71	9.0952	0.401
10.75	633.7	378.0	132.70	8.9070	0.402
11.00	633.9	378.1	132.69	8.7273	0.402
11.25	634.0	378.3	132.70	8.5556	0.402
11.50	634.1	378.4	132.68	8.3913	0.402
11.75	634.3	378.5	132.68	8.2340	0.402
12.00	634.4	378.7	132.68	8.0833	0.402
12.25	634.5	378.8	132.67	7.9388	0.403
12.50	634.6	378.9	132.66	7.8000	0.403
12.75	634.8	379.0	132.66	7.6667	0.403
13.00	634.9	379.1	132.65	7.5385	0.403
13.25	635.0	379.3	132.64	7.4151	0.403
13.50	635.1	379.4	132.64	7.2963	0.403
13.75	635.2	379.5	132.64	7.1818	0.403
14.00	635.3	379.6	132.63	7.0714	0.404
14.25	635.4	379.7	132.62	6.9649	0.404
14.50	635.5	379.8	132.62	6.8621	0.404
14.75	635.6	379.8	132.62	6.7627	0.404
15.00	635.6	379.9	132.61	6.6667	0.404
15.25	635.8	380.0	132.60	6.5738	0.404
15.50	635.8	380.1	132.60	6.4839	0.404
15.75	635.9	380.2	132.60	6.3968	0.404
16.00	636.0	380.3	132.58	6.3125	0.404
16.25	636.1	380.4	132.58	6.2308	0.405
16.50	636.2	380.4	132.58	6.1515	0.405
16.75	636.2	380.5	132.57	6.0746	0.405
17.00	636.3	380.6	132.57	6.0000	0.405

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
17.25	636.4	380.7	132.56	5.9275	0.405
17.50	636.5	380.7	132.56	5.8571	0.405
17.75	636.5	380.8	132.56	5.7887	0.405
18.00	636.6	380.9	132.55	5.7222	0.405
18.25	636.7	381.0	132.55	5.6575	0.405
18.50	636.8	381.0	132.54	5.5946	0.405
18.75	636.8	381.1	132.54	5.5333	0.406
19.00	636.9	381.2	132.54	5.4737	0.406
19.25	637.0	381.2	132.54	5.4156	0.406
19.50	637.1	381.3	132.55	5.3590	0.406
19.75	637.1	381.4	132.53	5.3038	0.406
20.00	637.2	381.4	132.53	5.2500	0.406
20.25	637.3	381.5	132.53	5.1975	0.406
20.50	637.3	381.6	132.53	5.1463	0.406
20.75	637.4	381.6	132.52	5.0964	0.406
21.00	637.5	381.7	132.52	5.0476	0.406
21.25	637.5	381.8	132.52	5.0000	0.406
21.50	637.6	381.8	132.52	4.9535	0.406
21.75	637.6	381.9	132.52	4.9080	0.407
22.00	637.7	382.0	132.51	4.8636	0.407
22.25	637.8	382.0	132.51	4.8202	0.407
22.50	637.9	382.1	132.51	4.7778	0.407
22.75	637.9	382.2	132.51	4.7363	0.407
23.00	638.0	382.2	132.50	4.6957	0.407
23.25	638.0	382.3	132.51	4.6559	0.407
23.50	638.1	382.4	132.51	4.6170	0.407
23.75	638.2	382.4	132.51	4.5789	0.407
24.00	638.2	382.5	132.51	4.5417	0.407
24.25	638.3	382.5	132.49	4.5052	0.407
24.50	638.4	382.6	132.50	4.4694	0.407
24.75	638.4	382.7	132.50	4.4343	0.408
25.00	638.5	382.7	132.49	4.4000	0.408
25.25	638.5	382.8	132.50	4.3663	0.408
25.50	638.6	382.8	132.50	4.3333	0.408
25.75	638.6	382.9	132.50	4.3010	0.408
26.00	638.7	382.9	132.49	4.2692	0.408
26.25	638.7	383.0	132.49	4.2381	0.408
26.50	638.8	383.0	132.49	4.2075	0.408
26.75	638.8	383.1	132.49	4.1776	0.408
27.00	638.9	383.1	132.49	4.1481	0.408
27.25	639.0	383.2	132.50	4.1193	0.408
27.50	639.0	383.3	132.49	4.0909	0.408
27.75	639.1	383.3	132.49	4.0631	0.408
28.00	639.1	383.4	132.49	4.0357	0.408
28.25	639.2	383.4	132.50	4.0088	0.409
28.50	639.2	383.5	132.49	3.9825	0.409
28.75	639.2	383.5	132.50	3.9565	0.409
29.00	639.3	383.5	132.50	3.9310	0.409
29.25	639.3	383.6	132.50	3.9060	0.409
29.50	639.4	383.6	132.51	3.8814	0.409
29.75	639.4	383.7	132.50	3.8571	0.409

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
30.00	639.5	383.7	132.51	3.8333	0.409
30.25	639.5	383.8	132.50	3.8099	0.409
30.50	639.6	383.8	132.50	3.7869	0.409
30.75	639.6	383.9	132.50	3.7642	0.409
31.00	639.7	383.9	132.50	3.7419	0.409
31.25	639.7	384.0	132.51	3.7200	0.409
31.50	639.7	384.0	132.51	3.6984	0.409
31.75	639.8	384.0	132.51	3.6772	0.409
32.00	639.8	384.1	132.50	3.6562	0.409
32.25	639.9	384.1	132.51	3.6357	0.409
32.50	639.9	384.2	132.51	3.6154	0.409
32.75	640.0	384.2	132.51	3.5954	0.410
33.00	640.0	384.3	132.51	3.5758	0.410
33.25	640.0	384.3	132.53	3.5564	0.410
33.50	640.1	384.3	132.51	3.5373	0.410
33.75	640.1	384.4	132.51	3.5185	0.410
34.00	640.2	384.4	132.51	3.5000	0.410
34.25	640.2	384.4	132.52	3.4818	0.410
34.50	640.2	384.5	132.53	3.4638	0.410
34.75	640.3	384.5	132.51	3.4460	0.410
35.00	640.3	384.5	132.52	3.4286	0.410
35.25	640.3	384.6	132.53	3.4113	0.410
35.50	640.3	384.6	132.52	3.3944	0.410
35.75	640.4	384.6	132.53	3.3776	0.410
36.00	640.4	384.7	132.53	3.3611	0.410
36.25	640.5	384.7	132.53	3.3448	0.410
36.50	640.5	384.7	132.54	3.3288	0.410
36.75	640.5	384.8	132.54	3.3129	0.410
37.00	640.6	384.8	132.53	3.2973	0.410
37.25	640.6	384.8	132.55	3.2819	0.410
37.50	640.6	384.9	132.53	3.2667	0.410
37.75	640.7	384.9	132.54	3.2517	0.410
38.00	640.7	384.9	132.54	3.2368	0.410
38.25	640.7	385.0	132.55	3.2222	0.411
38.50	640.7	385.0	132.55	3.2078	0.411
38.75	640.7	385.0	132.55	3.1935	0.411
39.00	640.8	385.0	132.55	3.1795	0.411
39.25	640.8	385.1	132.55	3.1656	0.411
39.50	640.8	385.1	132.55	3.1519	0.411
39.75	640.9	385.1	132.56	3.1384	0.411
40.00	640.9	385.2	132.56	3.1250	0.411
40.25	640.9	385.2	132.55	3.1118	0.411
40.50	641.0	385.2	132.56	3.0988	0.411
40.75	641.0	385.2	132.58	3.0859	0.411
41.00	641.0	385.3	132.57	3.0732	0.411
41.25	641.0	385.3	132.58	3.0606	0.411
41.50	641.1	385.3	132.57	3.0482	0.411
41.75	641.1	385.4	132.58	3.0359	0.411
42.00	641.1	385.4	132.58	3.0238	0.411
42.25	641.1	385.4	132.57	3.0118	0.411
42.50	641.2	385.4	132.58	3.0000	0.411

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
42.75	641.2	385.4	132.58	2.9883	0.411
43.00	641.2	385.5	132.58	2.9767	0.411
43.25	641.2	385.5	132.58	2.9653	0.411
43.50	641.3	385.5	132.58	2.9540	0.411
43.75	641.3	385.5	132.59	2.9429	0.411
44.00	641.3	385.6	132.59	2.9318	0.411
44.25	641.3	385.6	132.58	2.9209	0.411
44.50	641.3	385.6	132.58	2.9101	0.411
44.75	641.4	385.6	132.60	2.8994	0.411
45.00	641.4	385.6	132.60	2.8889	0.411
45.25	641.4	385.6	132.60	2.8785	0.411
45.50	641.4	385.7	132.59	2.8681	0.411
45.75	641.4	385.7	132.60	2.8579	0.411
46.00	641.5	385.7	132.61	2.8478	0.411
46.25	641.4	385.7	132.60	2.8378	0.411
46.50	641.5	385.7	132.60	2.8280	0.411
46.75	641.5	385.8	132.61	2.8182	0.412
47.00	641.5	385.8	132.61	2.8085	0.412
47.25	641.6	385.8	132.61	2.7989	0.412
47.50	641.6	385.8	132.63	2.7895	0.412
47.75	641.6	385.8	132.62	2.7801	0.412
48.00	641.6	385.9	132.62	2.7708	0.412
48.25	641.6	385.9	132.63	2.7617	0.412
48.50	641.6	385.9	132.62	2.7526	0.412
48.75	641.7	385.9	132.63	2.7436	0.412
49.00	641.7	385.9	132.64	2.7347	0.412
49.25	641.7	386.0	132.63	2.7259	0.412
49.50	641.7	386.0	132.63	2.7172	0.412
49.75	641.7	386.0	132.64	2.7085	0.412
50.00	641.7	386.0	132.64	2.7000	0.412
50.25	641.8	386.0	132.64	2.6915	0.412
50.50	641.8	386.0	132.64	2.6832	0.412
50.75	641.8	386.1	132.65	2.6749	0.412
51.00	641.8	386.1	132.64	2.6667	0.412
51.25	641.8	386.1	132.65	2.6585	0.412
51.50	641.8	386.1	132.67	2.6505	0.412
51.75	641.8	386.1	132.65	2.6425	0.412
52.00	641.9	386.1	132.66	2.6346	0.412
52.25	641.9	386.1	132.65	2.6268	0.412
52.50	641.9	386.2	132.67	2.6190	0.412
52.75	641.9	386.2	132.67	2.6114	0.412
53.00	641.9	386.2	132.68	2.6038	0.412
53.25	642.0	386.2	132.68	2.5962	0.412
53.50	642.0	386.2	132.67	2.5888	0.412
53.75	642.0	386.2	132.67	2.5814	0.412
54.00	642.0	386.3	132.68	2.5741	0.412
54.25	642.0	386.2	132.69	2.5668	0.412
54.50	642.0	386.3	132.69	2.5596	0.412
54.75	642.0	386.3	132.69	2.5525	0.412
55.00	642.0	386.3	132.70	2.5455	0.412
55.25	642.1	386.3	132.70	2.5385	0.412

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
55.50	642.1	386.3	132.70	2.5315	0.412
55.75	642.1	386.4	132.70	2.5247	0.412
56.00	642.1	386.4	132.71	2.5179	0.412
56.25	642.1	386.3	132.71	2.5111	0.412
56.50	642.1	386.4	132.71	2.5044	0.412
56.75	642.1	386.4	132.71	2.4978	0.412
57.00	642.1	386.4	132.72	2.4912	0.412
57.25	642.2	386.4	132.72	2.4847	0.412
57.50	642.2	386.4	132.72	2.4783	0.412
57.75	642.2	386.5	132.71	2.4719	0.412
58.00	642.2	386.5	132.73	2.4655	0.412
58.25	642.2	386.5	132.73	2.4592	0.412
58.50	642.2	386.5	132.73	2.4530	0.412
58.75	642.3	386.5	132.73	2.4468	0.412
59.00	642.3	386.5	132.75	2.4407	0.412
59.25	642.3	386.6	132.74	2.4346	0.413
59.50	642.3	386.6	132.74	2.4286	0.413
59.75	642.3	386.6	132.75	2.4226	0.413
60.00	642.3	386.6	132.75	2.4167	0.413
60.25	642.4	386.6	132.75	2.4108	0.413
60.50	642.4	386.6	132.75	2.4050	0.413
60.75	642.4	386.6	132.76	2.3992	0.413
61.00	642.4	386.6	132.76	2.3934	0.413
61.25	642.4	386.7	132.76	2.3878	0.413
61.50	642.4	386.7	132.77	2.3821	0.413
61.75	642.4	386.7	132.77	2.3765	0.413
62.00	642.4	386.6	132.78	2.3710	0.413
62.25	642.4	386.7	132.78	2.3655	0.413
62.50	642.4	386.7	132.78	2.3600	0.413
62.75	642.5	386.7	132.78	2.3546	0.413
63.00	642.5	386.7	132.78	2.3492	0.413
63.25	642.5	386.7	132.78	2.3439	0.413
63.50	642.5	386.7	132.79	2.3386	0.413
63.75	642.5	386.8	132.79	2.3333	0.413
64.00	642.5	386.8	132.79	2.3281	0.413
64.25	642.5	386.8	132.79	2.3230	0.413
64.50	642.5	386.8	132.80	2.3178	0.413
64.75	642.5	386.8	132.80	2.3127	0.413
65.00	642.6	386.8	132.80	2.3077	0.413
65.25	642.6	386.8	132.81	2.3027	0.413
65.50	642.6	386.8	132.81	2.2977	0.413
65.75	642.6	386.8	132.81	2.2928	0.413
66.00	642.6	386.9	132.81	2.2879	0.413
66.25	642.6	386.9	132.83	2.2830	0.413
66.50	642.6	386.9	132.83	2.2782	0.413
66.75	642.6	386.9	132.83	2.2734	0.413
67.00	642.7	386.9	132.84	2.2687	0.413
67.25	642.7	386.9	132.83	2.2639	0.413
67.50	642.7	386.9	132.83	2.2593	0.413
67.75	642.7	387.0	132.84	2.2546	0.413
68.00	642.7	387.0	132.84	2.2500	0.413

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
68.25	642.7	387.0	132.85	2.2454	0.413
68.50	642.7	387.0	132.85	2.2409	0.413
68.75	642.7	387.0	132.84	2.2364	0.413
69.00	642.7	387.0	132.85	2.2319	0.413
69.25	642.7	387.0	132.86	2.2274	0.413
69.50	642.7	387.0	132.85	2.2230	0.413
69.75	642.8	387.0	132.86	2.2186	0.413
70.00	642.8	387.0	132.87	2.2143	0.413
70.25	642.8	387.0	132.86	2.2100	0.413
70.50	642.8	387.1	132.87	2.2057	0.413
70.75	642.8	387.1	132.86	2.2014	0.413
71.00	642.8	387.1	132.87	2.1972	0.413
71.25	642.8	387.1	132.87	2.1930	0.413
71.50	642.8	387.1	132.87	2.1888	0.413
71.75	642.8	387.1	132.88	2.1847	0.413
72.00	642.8	387.1	132.88	2.1806	0.413
72.25	642.8	387.1	132.89	2.1765	0.413
72.50	642.8	387.1	132.89	2.1724	0.413
72.75	642.9	387.1	132.90	2.1684	0.413
73.00	642.9	387.2	132.89	2.1644	0.413
73.25	642.9	387.2	132.89	2.1604	0.413
73.50	642.9	387.2	132.90	2.1565	0.413
73.75	642.9	387.2	132.90	2.1525	0.413
74.00	642.9	387.2	132.90	2.1486	0.413
74.25	642.9	387.2	132.91	2.1448	0.413
74.50	642.9	387.2	132.91	2.1409	0.413
74.75	642.9	387.2	132.91	2.1371	0.413
75.00	642.9	387.2	132.92	2.1333	0.413
75.25	642.9	387.2	132.92	2.1296	0.413
75.50	642.9	387.2	132.92	2.1258	0.413
75.75	643.0	387.2	132.93	2.1221	0.413
76.00	643.0	387.2	132.93	2.1184	0.413
76.25	643.0	387.2	132.93	2.1148	0.413
76.50	643.0	387.3	132.94	2.1111	0.413
76.75	643.0	387.3	132.94	2.1075	0.413
77.00	643.0	387.3	132.95	2.1039	0.413
77.25	643.0	387.3	132.95	2.1003	0.413
77.50	643.0	387.3	132.95	2.0968	0.413
77.75	643.0	387.3	132.95	2.0932	0.413
78.00	643.0	387.3	132.95	2.0897	0.413
78.25	643.0	387.3	132.96	2.0863	0.414
78.50	643.0	387.3	132.96	2.0828	0.414
78.75	643.1	387.3	132.97	2.0794	0.414
79.00	643.1	387.4	132.97	2.0759	0.414
79.25	643.1	387.4	132.97	2.0726	0.414
79.50	643.1	387.4	132.96	2.0692	0.414
79.75	643.1	387.3	132.98	2.0658	0.414
80.00	643.1	387.3	132.98	2.0625	0.414
80.25	643.1	387.4	132.98	2.0592	0.414
80.50	643.1	387.4	132.98	2.0559	0.414
80.75	643.1	387.4	132.99	2.0526	0.414

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
81.00	643.1	387.4	132.99	2.0494	0.414
81.25	643.1	387.4	132.99	2.0462	0.414
81.50	643.1	387.4	132.99	2.0429	0.414
81.75	643.1	387.4	133.00	2.0398	0.414
82.00	643.2	387.4	133.00	2.0366	0.414
82.25	643.2	387.4	133.00	2.0334	0.414
82.50	643.2	387.4	133.01	2.0303	0.414
82.75	643.2	387.4	133.02	2.0272	0.414
83.00	643.2	387.5	133.01	2.0241	0.414
83.25	643.2	387.5	133.01	2.0210	0.414
83.50	643.2	387.5	133.01	2.0180	0.414
83.75	643.2	387.5	133.02	2.0149	0.414
84.00	643.2	387.5	133.03	2.0119	0.414
84.25	643.2	387.5	133.03	2.0089	0.414
84.50	643.2	387.5	133.02	2.0059	0.414
84.75	643.2	387.5	133.03	2.0029	0.414
85.00	643.2	387.5	133.03	2.0000	0.414
85.25	643.2	387.5	133.04	1.9971	0.414
85.50	643.2	387.5	133.04	1.9942	0.414
85.75	643.3	387.5	133.05	1.9913	0.414
86.00	643.3	387.5	133.06	1.9884	0.414
86.25	643.3	387.6	133.06	1.9855	0.414
86.50	643.3	387.6	133.06	1.9827	0.414
86.75	643.3	387.6	133.06	1.9798	0.414
87.00	643.3	387.6	133.06	1.9770	0.414
87.25	643.3	387.6	133.05	1.9742	0.414
87.50	643.3	387.5	133.06	1.9714	0.414
87.75	643.3	387.5	133.07	1.9687	0.414
88.00	643.3	387.5	133.07	1.9659	0.414
88.25	643.3	387.6	133.06	1.9632	0.414
88.50	643.3	387.6	133.07	1.9605	0.414
88.75	643.3	387.6	133.07	1.9577	0.414
89.00	643.3	387.6	133.08	1.9551	0.414
89.25	643.3	387.6	133.08	1.9524	0.414
89.50	643.3	387.6	133.08	1.9497	0.414
89.75	643.3	387.6	133.09	1.9471	0.414
90.00	643.3	387.6	133.08	1.9444	0.414
90.25	643.3	387.6	133.09	1.9418	0.414
90.50	643.3	387.6	133.09	1.9392	0.414
90.75	643.3	387.6	133.10	1.9366	0.414
91.00	643.4	387.6	133.10	1.9341	0.414
91.25	643.4	387.7	133.11	1.9315	0.414
91.50	643.4	387.7	133.11	1.9290	0.414
91.75	643.4	387.7	133.12	1.9264	0.414
92.00	643.4	387.7	133.12	1.9239	0.414
92.25	643.4	387.7	133.12	1.9214	0.414
92.50	643.4	387.7	133.12	1.9189	0.414
92.75	643.4	387.7	133.12	1.9164	0.414
93.00	643.4	387.7	133.12	1.9140	0.414
93.25	643.4	387.7	133.12	1.9115	0.414
93.50	643.4	387.7	133.13	1.9091	0.414

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
93.75	643.4	387.7	133.14	1.9067	0.414
94.00	643.4	387.7	133.14	1.9043	0.414
94.25	643.4	387.7	133.13	1.9019	0.414
94.50	643.5	387.7	133.14	1.8995	0.414
94.75	643.5	387.7	133.15	1.8971	0.414
95.00	643.5	387.7	133.15	1.8947	0.414
95.25	643.5	387.8	133.16	1.8924	0.414
95.50	643.5	387.8	133.16	1.8901	0.414
95.75	643.5	387.8	133.16	1.8877	0.414
96.00	643.5	387.8	133.17	1.8854	0.414
96.25	643.5	387.8	133.17	1.8831	0.414
96.50	643.5	387.8	133.17	1.8808	0.414
96.75	643.5	387.8	133.17	1.8786	0.414
97.00	643.5	387.8	133.17	1.8763	0.414
97.25	643.5	387.8	133.17	1.8740	0.414
97.50	643.5	387.8	133.18	1.8718	0.414
97.75	643.5	387.8	133.17	1.8696	0.414
98.00	643.5	387.8	133.18	1.8673	0.414
98.25	643.5	387.8	133.18	1.8651	0.414
98.50	643.6	387.8	133.19	1.8629	0.414
98.75	643.6	387.8	133.19	1.8608	0.414
99.00	643.6	387.8	133.19	1.8586	0.414
99.25	643.6	387.8	133.19	1.8564	0.414
99.50	643.6	387.8	133.20	1.8543	0.414
99.75	643.6	387.8	133.20	1.8521	0.414
100.00	643.6	387.8	133.20	1.8500	0.414
100.25	643.6	387.9	133.22	1.8479	0.414
100.50	643.6	387.9	133.21	1.8458	0.414
100.75	643.6	387.9	133.22	1.8437	0.414
101.00	643.6	387.9	133.22	1.8416	0.414
101.25	643.6	387.9	133.22	1.8395	0.414
101.50	643.6	387.9	133.22	1.8374	0.414
101.75	643.6	387.9	133.23	1.8354	0.414
102.00	643.6	387.9	133.23	1.8333	0.414
102.25	643.6	387.9	133.24	1.8313	0.414
102.50	643.6	387.9	133.23	1.8293	0.414
102.75	643.6	387.9	133.25	1.8273	0.414
103.00	643.6	387.9	133.25	1.8252	0.414
103.25	643.6	387.9	133.24	1.8232	0.414
103.50	643.6	387.9	133.24	1.8213	0.414
103.75	643.6	387.9	133.25	1.8193	0.414
104.00	643.6	387.9	133.25	1.8173	0.414
104.25	643.6	387.9	133.26	1.8153	0.414
104.50	643.7	387.9	133.25	1.8134	0.414
104.75	643.7	387.9	133.26	1.8115	0.414
105.00	643.7	388.0	133.25	1.8095	0.414
105.25	643.7	388.0	133.26	1.8076	0.414
105.50	643.7	388.0	133.26	1.8057	0.414
105.75	643.7	388.0	133.27	1.8038	0.414
106.00	643.7	388.0	133.27	1.8019	0.414
106.25	643.7	388.0	133.27	1.8000	0.414

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
106.50	643.7	387.9	133.29	1.7981	0.414
106.75	643.7	387.9	133.29	1.7963	0.414
107.00	643.7	388.0	133.28	1.7944	0.414
107.25	643.7	388.0	133.28	1.7925	0.414
107.50	643.7	388.0	133.29	1.7907	0.414
107.75	643.7	387.9	133.29	1.7889	0.414
108.00	643.7	387.9	133.29	1.7870	0.414
108.25	643.7	387.9	133.30	1.7852	0.414
108.50	643.6	387.9	133.30	1.7834	0.414
108.75	643.7	388.0	133.31	1.7816	0.414
109.00	643.7	388.0	133.31	1.7798	0.414
109.25	643.7	388.0	133.31	1.7780	0.414
109.50	643.7	388.0	133.32	1.7763	0.414
109.75	643.7	388.0	133.31	1.7745	0.414
110.00	643.7	388.0	133.32	1.7727	0.414
110.25	643.7	388.0	133.33	1.7710	0.414
110.50	643.7	388.0	133.33	1.7692	0.414
110.75	643.7	388.0	133.32	1.7675	0.414
111.00	643.7	388.0	133.33	1.7658	0.414
111.25	643.7	388.0	133.34	1.7640	0.414
111.50	643.7	388.0	133.34	1.7623	0.414
111.75	643.7	388.0	133.34	1.7606	0.414
112.00	643.7	388.0	133.35	1.7589	0.414
112.25	643.7	388.0	133.34	1.7572	0.414
112.50	643.7	388.0	133.34	1.7556	0.414
112.75	643.7	388.0	133.35	1.7539	0.414
113.00	643.8	388.0	133.34	1.7522	0.414
113.25	643.8	388.0	133.35	1.7506	0.414
113.50	643.8	388.0	133.36	1.7489	0.414
113.75	643.8	388.1	133.36	1.7473	0.414
114.00	643.8	388.1	133.37	1.7456	0.414
114.25	643.8	388.1	133.37	1.7440	0.414
114.50	643.8	388.0	133.38	1.7424	0.414
114.75	643.8	388.1	133.37	1.7407	0.414
115.00	643.8	388.1	133.38	1.7391	0.414
115.25	643.8	388.1	133.38	1.7375	0.414
115.50	643.8	388.1	133.38	1.7359	0.414
115.75	643.8	388.1	133.38	1.7343	0.414
116.00	643.8	388.1	133.39	1.7328	0.414
116.25	643.8	388.1	133.39	1.7312	0.414
116.50	643.8	388.1	133.39	1.7296	0.415
116.75	643.8	388.1	133.40	1.7281	0.415
117.00	643.8	388.1	133.40	1.7265	0.415
117.25	643.8	388.1	133.40	1.7249	0.415
117.50	643.8	388.1	133.40	1.7234	0.415
117.75	643.9	388.1	133.41	1.7219	0.415
118.00	643.9	388.1	133.40	1.7203	0.415
118.25	643.9	388.1	133.41	1.7188	0.415
118.50	643.9	388.1	133.41	1.7173	0.415
118.75	643.9	388.1	133.42	1.7158	0.415
119.00	643.9	388.1	133.41	1.7143	0.415

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9803 DST#1 Ratzlaff"C"#2A Anadarko

DATE: 10/24/97

TIME: 12:21:33

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
119.25	643.8	388.1	133.41	1.7128	0.415
119.50	643.8	388.1	133.42	1.7113	0.415
119.75	643.8	388.1	133.43	1.7098	0.415
120.00	643.8	388.1	133.43	1.7083	0.415
120.25	643.9	388.2	133.44	1.7069	0.415
120.50	643.9	388.2	133.43	1.7054	0.415
120.75	643.9	388.2	133.45	1.7039	0.415
121.00	643.9	388.2	133.45	1.7025	0.415
121.25	643.9	388.1	133.46	1.7010	0.415
121.50	643.9	388.1	133.45	1.6996	0.415
121.75	643.9	388.2	133.46	1.6982	0.415
122.00	643.9	388.2	133.46	1.6967	0.415
122.25	643.9	388.2	133.46	1.6953	0.415
122.50	643.9	388.2	133.47	1.6939	0.415
122.75	643.9	388.2	133.47	1.6925	0.415
123.00	643.9	388.2	133.48	1.6911	0.415
123.25	643.9	388.2	133.47	1.6897	0.415
123.50	643.9	388.2	133.48	1.6883	0.415
123.75	643.9	388.2	133.48	1.6869	0.415
124.00	643.9	388.2	133.48	1.6855	0.415
124.25	643.9	388.2	133.49	1.6841	0.415
124.50	643.9	388.2	133.49	1.6827	0.415
124.75	643.9	388.2	133.50	1.6814	0.415

***** End Shut-in 2

***** Final Hydro. 425.00 2359.3 0.0 133.54

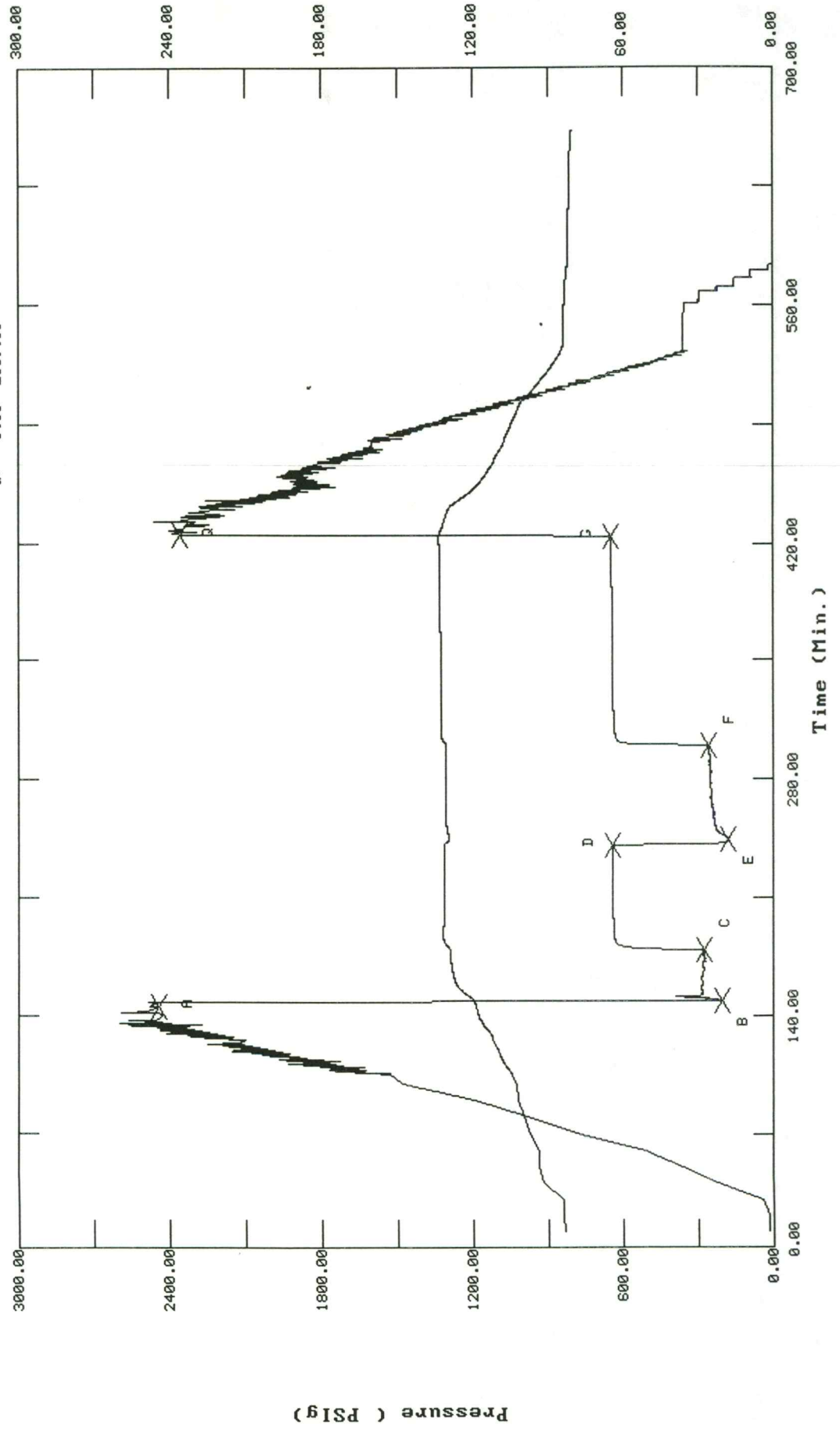
TEST HISTORY

9803 DST#1 Ratzlaff"C"#2A Anadarko

Flag Points

t(Min.) P(PSig)

A: 0.00 2443.85
 B: 0.00 199.72
 C: 30.00 276.32
 D: 62.50 641.52
 E: 0.00 176.76
 F: 55.00 255.73
 G: 124.75 643.92
 Q: 0.00 2359.31



TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9803 Date 10-24-97 ^{42, 10}
Company Name Andarko
Lease Ratzlaff "C" #2-A Test No. 1
County Morton Sec. 1 Twp. 33s Rng. 41w

SAMPLER RECOVERY

Gas 7 Cu. Ft. ML
Oil _____ ML
Mud 3500 ML
Water _____ ML
Other _____ ML
Pressure 246 PSI
Total 4000 ml ML

PIT MUD ANALYSIS

Chlorides 1,000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 47
Mud Weight 8.9
Filtrate 9.2
Other LCM 5,16s

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 _____ ohms @ _____ F
Chlorides _____ ppm.



P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

Anadarko

OPERATOR

VOLUME REPORT
Ratzloff "C" #2-A

WELL NAME AND NO.

DST NO.

1st Flow

GTS 15 min.

2nd Flow

42 10

[illegible]

Remarks:

Yes will send.