

WELL NAME: BERTRAND TRUST 'A' #1-11
COMPANY: McCOY PETROLEUM CORPORATION
LOCATION: Sec. 11 Twp. 11S Rge. 34W
Logan County KS
DATE: 03/13/97

TRILOBITE TESTING L.L.C.

OPERATOR : McCoy Petroleum DATE 3-9-97
WELL NAME: Bertrand A #1-11 KB 0.00 ft TICKET NO: 9639 DST #1
LOCATION : 11-11S-34W Logan KS GR 0.00 ft FORMATION: Lansing KC "K"
INTERVAL : 4330.00 To 4356.00 ft TD 4356.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11057	11057	2342			PF Fr. 1307 to 1337 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1337 to 1437 hr
SF 60 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 1437 to 1537 hr
FS 90 Depth(ft)	4351.0	4351.0	4336.0	0.0	0.0	FS Fr. 1537 to 1707 hr

	Field	1	2	3	4	
A. Init Hydro	2208.0	2176.0	2149.0	0.0	0.0	T STARTED 0955 hr
B. First Flow	224.0	202.0	161.0	0.0	0.0	T ON BOTM 1302 hr
B1. Final Flow	537.0	530.0	555.0	0.0	0.0	T OPEN 1307 hr
C. In Shut-in	1152.0	1230.0	1239.0	0.0	0.0	T PULLED 1707 hr
D. Init Flow	649.0	618.0	580.0	0.0	0.0	T OUT 2300 hr
E. Final Flow	962.0	926.0	944.0	0.0	0.0	
F. Fl Shut-in	1242.0	1228.0	1227.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2185.0	2034.0	2070.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 28000.00 lbs
						Wt Pulled Loose 82000.00 lbs
						Initial Str Wt 66000.00 lbs
						Unseated Str Wt 75000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 0.00 in
						D.C. Length 253.00 ft
						D.P. Length 4070.00 ft

RECOVERY

Tot Fluid 2555.00 ft of 283.00 ft in DC and 2272.00 ft in DP
2460.00 ft of Clean Gassy Oil 10%gas 90% oil
0.00 ft of
95.00 ft of Slighty Muddy Gas Cut Oil
0.00 ft of 50%gas 40%oil 10%mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 34.00

BLOW DESCRIPTION

Initial Flow:
Bottom of bucket in .5 min
Initial Shut In:
Bled off blow for 9 min, return in
1 min, built to 5 "
Final FLOW:
Bottom of bucket in .5 min
Final Shut In:
Bled off blow for 5 min, weak return
in 4 min of 1/8", died in 20 min

SAMPLES:
SENT TO:

Test Successful: Y

MUD DATA-----
Mud Type Chemical
Weight 9.10 lb/c
Vis. 56.00 S/L
W.L. 10.40 in3
F.C. 0.00 in
Mud Drop N
Amt. of fill 0.00 ft
Btm. H. Temp. 133.00 F
Hole Condition good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 2
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Shane McBride
Co. Rep. John Hastings
Contr. Sweetman
Rig # 2
Unit #
Pump T.

*** TOOL DIAGRAM *** CONV.

WELL NAME: Bertrand A #1-11

LOCATION : 11-11S-34W Logan KS

TICKET No. 9639 D.S.T. No. 1 DATE 3-9-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26

TOTAL TOOL 48

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 48

D.C. ABOVE TOOLS.Stands3 Single Total 253

D.P. ABOVE TOOLS.Stands Single Total 4070

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4371

TOTAL DEPTH 4356

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:

P.O. SUB	
C.O. SUB 1'	4308
S.I. TOOL 5'	4314
HMV 5'	4319
JARS n/a	
SAFETY JOINT 2'	4321
PACKER top	4325
PACKER bottom	4330
DEPTH 4330	
STUBB 1'	4331
ANCHOR 5' perf	4336
Alpine rec @ 15' perf	4336
Ak-1 rec @	4351
T.C. DEPTH	
BULLNOSE 5' bullplug	4356
T.D.	4356

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

EST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97 TIME: 09:58:29

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
**** Initial Hydro.	191.25	2148.9	0.0	117.30		
**** Start Flow 1	0.00	160.8	0.0	117.32		
	0.25	165.7	4.9	117.36		
	0.50	170.4	9.7	117.43		
	0.75	174.5	13.7	117.50		
	1.00	172.5	11.7	117.60		
	1.25	174.0	13.2	117.71		
	1.50	176.0	15.2	117.84		
	1.75	177.7	16.9	117.99		
	2.00	180.4	19.6	118.17		
	2.25	187.2	26.4	118.37		
	2.50	189.9	29.1	118.58		
	2.75	195.0	34.2	118.82		
	3.00	197.9	37.1	119.07		
	3.25	203.7	42.9	119.35		
	3.50	208.1	47.3	119.64		
	3.75	212.2	51.4	119.93		
	4.00	215.4	54.6	120.25		
	4.25	220.1	59.3	120.58		
	4.50	226.6	65.8	120.90		
	4.75	232.5	71.7	121.23		
	5.00	237.7	76.9	121.55		
	5.25	243.0	82.2	121.88		
	5.50	246.8	86.0	122.20		
	5.75	250.8	90.0	122.52		
	6.00	256.6	95.8	122.84		
	6.25	260.7	99.9	123.15		
	6.50	263.6	102.8	123.46		
	6.75	267.1	106.3	123.76		
	7.00	272.7	111.9	124.05		
	7.25	277.5	116.7	124.34		
	7.50	281.7	120.9	124.63		
	7.75	286.6	125.8	124.91		
	8.00	291.6	130.8	125.19		
	8.25	290.0	129.2	125.45		
	8.50	293.9	133.1	125.71		
	8.75	297.3	136.6	125.98		
	9.00	301.0	140.2	126.23		
	9.25	304.9	144.1	126.48		
	9.50	308.5	147.7	126.72		
	9.75	312.0	151.2	126.96		
	10.00	315.6	154.8	127.20		
	10.25	319.2	158.4	127.43		
	10.50	322.9	162.1	127.65		
	10.75	326.4	165.6	127.87		
	11.00	330.2	169.5	128.08		
	11.25	334.1	173.3	128.29		
	11.50	337.8	177.0	128.49		
	11.75	341.2	180.4	128.68		
	12.00	344.9	184.1	128.87		
	12.25	348.4	187.6	129.05		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
12.50	351.8	191.0	129.23		
12.75	355.4	194.6	129.40		
13.00	358.8	198.0	129.57		
13.25	362.4	201.6	129.72		
13.50	366.0	205.2	129.87		
13.75	369.3	208.5	130.02		
14.00	372.5	211.7	130.15		
14.25	375.7	214.9	130.29		
14.50	378.7	217.9	130.42		
14.75	381.6	220.8	130.53		
15.00	384.9	224.1	130.66		
15.25	388.0	227.2	130.78		
15.50	391.2	230.4	130.89		
15.75	394.4	233.6	131.00		
16.00	398.1	237.3	131.09		
16.25	401.1	240.3	131.19		
16.50	404.3	243.5	131.29		
16.75	407.5	246.7	131.38		
17.00	410.7	249.9	131.47		
17.25	413.6	252.8	131.54		
17.50	416.5	255.7	131.63		
17.75	419.5	258.7	131.71		
18.00	422.7	261.9	131.79		
18.25	425.6	264.8	131.86		
18.50	428.9	268.1	131.93		
18.75	431.6	270.8	131.98		
19.00	434.6	273.8	132.05		
19.25	437.5	276.7	132.12		
19.50	440.8	280.0	132.18		
19.75	443.5	282.8	132.23		
20.00	446.3	285.5	132.28		
20.25	449.4	288.6	132.33		
20.50	452.4	291.6	132.38		
20.75	455.3	294.5	132.43		
21.00	458.2	297.4	132.47		
21.25	461.4	300.6	132.51		
21.50	464.3	303.5	132.56		
21.75	467.0	306.3	132.60		
22.00	470.0	309.2	132.63		
22.25	473.1	312.3	132.67		
22.50	476.0	315.2	132.69		
22.75	478.8	318.0	132.73		
23.00	481.4	320.6	132.77		
23.25	484.4	323.6	132.79		
23.50	487.3	326.5	132.83		
23.75	490.0	329.2	132.86		
24.00	492.8	332.0	132.88		
24.25	495.4	334.6	132.91		
24.50	498.5	337.7	132.94		
24.75	500.9	340.1	132.96		
25.00	503.7	342.9	132.98		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.25	506.7	345.9	133.00		
	25.50	509.0	348.2	133.02		
	25.75	511.7	350.9	133.05		
	26.00	513.9	353.1	133.07		
	26.25	516.2	355.4	133.09		
	26.50	519.1	358.3	133.11		
	26.75	521.6	360.8	133.12		
	27.00	524.3	363.5	133.14		
	27.25	526.8	366.0	133.16		
	27.50	529.7	368.9	133.17		
	27.75	532.2	371.4	133.19		
	28.00	534.7	373.9	133.20		
	28.25	536.9	376.1	133.22		
	28.50	539.5	378.7	133.24		
	28.75	542.0	381.2	133.26		
	29.00	544.9	384.1	133.27		
	29.25	547.0	386.2	133.29		
	29.50	549.3	388.5	133.30		
	29.75	552.1	391.3	133.31		
***** End Flow 1	30.00	554.7	393.9	133.33		
***** Start Shutin 1	0.00	554.7	0.0	133.33	0.0000	0.308
	0.25	810.9	256.2	133.35	121.0000	0.658
	0.50	904.7	350.1	133.37	61.0000	0.819
	0.75	948.8	394.1	133.38	41.0000	0.900
	1.00	976.7	422.0	133.40	31.0000	0.954
	1.25	996.6	441.9	133.43	25.0000	0.993
	1.50	1011.7	457.1	133.45	21.0000	1.024
	1.75	1024.1	469.4	133.46	18.1429	1.049
	2.00	1034.2	479.6	133.48	16.0000	1.070
	2.25	1043.0	488.3	133.51	14.3333	1.088
	2.50	1050.7	496.0	133.53	13.0000	1.104
	2.75	1057.5	502.8	133.55	11.9091	1.118
	3.00	1063.4	508.8	133.57	11.0000	1.131
	3.25	1069.1	514.4	133.59	10.2308	1.143
	3.50	1074.3	519.6	133.62	9.5714	1.154
	3.75	1078.9	524.2	133.64	9.0000	1.164
	4.00	1083.1	528.4	133.65	8.5000	1.173
	4.25	1087.0	532.4	133.67	8.0588	1.182
	4.50	1090.8	536.1	133.69	7.6667	1.190
	4.75	1094.3	539.7	133.71	7.3158	1.198
	5.00	1097.7	543.0	133.73	7.0000	1.205
	5.25	1100.8	546.1	133.73	6.7143	1.212
	5.50	1103.8	549.1	133.77	6.4545	1.218
	5.75	1106.6	551.9	133.78	6.2174	1.225
	6.00	1109.3	554.7	133.79	6.0000	1.231
	6.25	1112.0	557.3	133.81	5.8000	1.236
	6.50	1114.5	559.8	133.82	5.6154	1.242
	6.75	1116.9	562.2	133.83	5.4444	1.247
	7.00	1119.1	564.4	133.84	5.2857	1.252
	7.25	1121.4	566.7	133.85	5.1379	1.257
	7.50	1123.4	568.8	133.87	5.0000	1.262

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
7.75	1125.5	570.8	133.87	4.8710	1.267
8.00	1127.6	572.9	133.89	4.7500	1.271
8.25	1129.4	574.7	133.91	4.6364	1.276
8.50	1131.3	576.7	133.91	4.5294	1.280
8.75	1133.1	578.4	133.92	4.4286	1.284
9.00	1134.9	580.2	133.93	4.3333	1.288
9.25	1136.5	581.8	133.93	4.2432	1.292
9.50	1138.2	583.6	133.94	4.1579	1.296
9.75	1139.8	585.1	133.95	4.0769	1.299
10.00	1141.4	586.7	133.96	4.0000	1.303
10.25	1142.9	588.3	133.95	3.9268	1.306
10.50	1144.3	589.7	133.97	3.8571	1.310
10.75	1145.9	591.2	133.96	3.7907	1.313
11.00	1147.3	592.6	133.97	3.7273	1.316
11.25	1148.6	594.0	133.96	3.6667	1.319
11.50	1150.0	595.3	133.97	3.6087	1.322
11.75	1151.3	596.6	133.96	3.5532	1.326
12.00	1152.5	597.8	133.97	3.5000	1.328
12.25	1153.7	599.1	133.96	3.4490	1.331
12.50	1155.0	600.3	133.97	3.4000	1.334
12.75	1156.3	601.6	133.97	3.3529	1.337
13.00	1157.4	602.8	133.96	3.3077	1.340
13.25	1158.6	603.9	133.96	3.2642	1.342
13.50	1159.7	605.0	133.95	3.2222	1.345
13.75	1160.7	606.0	133.95	3.1818	1.347
14.00	1161.8	607.1	133.94	3.1429	1.350
14.25	1162.9	608.2	133.95	3.1053	1.352
14.50	1163.9	609.2	133.94	3.0690	1.355
14.75	1165.0	610.3	133.93	3.0339	1.357
15.00	1166.1	611.4	133.94	3.0000	1.360
15.25	1166.9	612.3	133.91	2.9672	1.362
15.50	1167.9	613.3	133.92	2.9355	1.364
15.75	1168.9	614.2	133.91	2.9048	1.366
16.00	1169.9	615.2	133.91	2.8750	1.369
16.25	1170.7	616.0	133.91	2.8462	1.371
16.50	1171.6	617.0	133.91	2.8182	1.373
16.75	1172.5	617.9	133.91	2.7910	1.375
17.00	1173.5	618.8	133.90	2.7647	1.377
17.25	1174.2	619.6	133.90	2.7391	1.379
17.50	1175.1	620.4	133.90	2.7143	1.381
17.75	1175.8	621.1	134.02	2.6901	1.383
18.00	1176.8	622.2	133.79	2.6667	1.385
18.25	1177.6	622.9	133.88	2.6438	1.387
18.50	1178.3	623.7	133.88	2.6216	1.388
18.75	1179.2	624.5	133.88	2.6000	1.390
19.00	1179.8	625.2	133.88	2.5789	1.392
19.25	1180.7	626.0	133.87	2.5584	1.394
19.50	1181.4	626.7	133.87	2.5385	1.396
19.75	1182.1	627.4	133.87	2.5190	1.397
20.00	1183.0	628.3	133.86	2.5000	1.399
20.25	1183.6	629.0	133.87	2.4815	1.401

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97 TIME: 09:58:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
20.50	1184.4	629.7	133.86	2.4634	1.403
20.75	1185.1	630.5	133.85	2.4458	1.405
21.00	1185.8	631.1	133.86	2.4286	1.406
21.25	1186.5	631.8	133.85	2.4118	1.408
21.50	1187.2	632.5	133.84	2.3953	1.409
21.75	1187.7	633.1	133.83	2.3793	1.411
22.00	1188.4	633.7	133.83	2.3636	1.412
22.25	1189.0	634.3	133.82	2.3483	1.414
22.50	1189.6	634.9	133.82	2.3333	1.415
22.75	1190.3	635.6	133.81	2.3187	1.417
23.00	1190.9	636.3	133.81	2.3043	1.418
23.25	1191.5	636.8	133.79	2.2903	1.420
23.50	1192.1	637.4	133.80	2.2766	1.421
23.75	1192.7	638.0	133.80	2.2632	1.423
24.00	1193.3	638.6	133.79	2.2500	1.424
24.25	1193.9	639.2	133.78	2.2371	1.425
24.50	1194.4	639.7	133.78	2.2245	1.427
24.75	1195.0	640.4	133.75	2.2121	1.428
25.00	1195.5	640.9	133.75	2.2000	1.429
25.25	1196.0	641.4	133.74	2.1881	1.431
25.50	1196.6	642.0	133.73	2.1765	1.432
25.75	1197.2	642.6	133.72	2.1650	1.433
26.00	1197.7	643.1	133.71	2.1538	1.435
26.25	1198.2	643.6	133.70	2.1429	1.436
26.50	1198.8	644.1	133.69	2.1321	1.437
26.75	1199.3	644.6	133.68	2.1215	1.438
27.00	1199.7	645.1	133.67	2.1111	1.439
27.25	1200.2	645.6	133.67	2.1009	1.441
27.50	1200.7	646.1	133.65	2.0909	1.442
27.75	1201.3	646.7	133.64	2.0811	1.443
28.00	1201.8	647.1	133.63	2.0714	1.444
28.25	1202.3	647.6	133.61	2.0619	1.445
28.50	1202.8	648.1	133.61	2.0526	1.447
28.75	1203.3	648.6	133.60	2.0435	1.448
29.00	1203.8	649.1	133.58	2.0345	1.449
29.25	1204.2	649.5	133.58	2.0256	1.450
29.50	1204.6	649.9	133.55	2.0169	1.451
29.75	1205.0	650.4	133.55	2.0084	1.452
30.00	1205.5	650.9	133.54	2.0000	1.453
30.25	1206.0	651.3	133.53	1.9917	1.454
30.50	1206.4	651.7	133.52	1.9836	1.455
30.75	1206.8	652.1	133.50	1.9756	1.456
31.00	1207.2	652.5	133.49	1.9677	1.457
31.25	1207.7	653.0	133.48	1.9600	1.459
31.50	1208.0	653.4	133.47	1.9524	1.459
31.75	1208.6	653.9	133.46	1.9449	1.461
32.00	1209.0	654.3	133.44	1.9375	1.462
32.25	1209.4	654.7	133.43	1.9302	1.463
32.50	1209.6	655.0	133.42	1.9231	1.463
32.75	1210.1	655.4	133.41	1.9160	1.464
33.00	1210.4	655.7	133.41	1.9091	1.465

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
33.25	1210.9	656.2	133.38	1.9023	1.466
33.50	1211.4	656.7	133.37	1.8955	1.468
33.75	1211.7	657.1	133.37	1.8889	1.468
34.00	1212.2	657.5	133.35	1.8824	1.469
34.25	1212.5	657.8	133.35	1.8759	1.470
34.50	1212.9	658.2	133.33	1.8696	1.471
34.75	1213.3	658.6	133.32	1.8633	1.472
35.00	1213.6	658.9	133.30	1.8571	1.473
35.25	1214.0	659.3	133.30	1.8511	1.474
35.50	1214.3	659.7	133.30	1.8451	1.475
35.75	1214.7	660.0	133.28	1.8392	1.475
36.00	1215.0	660.3	133.26	1.8333	1.476
36.25	1215.4	660.7	133.24	1.8276	1.477
36.50	1215.8	661.1	133.23	1.8219	1.478
36.75	1216.0	661.4	133.22	1.8163	1.479
37.00	1216.4	661.8	133.21	1.8108	1.480
37.25	1216.7	662.0	133.19	1.8054	1.480
37.50	1217.0	662.4	133.19	1.8000	1.481
37.75	1217.4	662.7	133.17	1.7947	1.482
38.00	1217.7	663.0	133.17	1.7895	1.483
38.25	1218.0	663.4	133.16	1.7843	1.484
38.50	1218.5	663.8	133.13	1.7792	1.485
38.75	1218.7	664.0	133.12	1.7742	1.485
39.00	1219.0	664.3	133.12	1.7692	1.486
39.25	1219.3	664.6	133.11	1.7643	1.487
39.50	1219.7	665.0	133.10	1.7595	1.488
39.75	1220.0	665.3	133.09	1.7547	1.488
40.00	1220.3	665.6	133.09	1.7500	1.489
40.25	1220.6	665.9	133.06	1.7453	1.490
40.50	1221.0	666.3	133.05	1.7407	1.491
40.75	1221.2	666.6	133.04	1.7362	1.491
41.00	1221.6	666.9	133.03	1.7317	1.492
41.25	1221.8	667.1	133.02	1.7273	1.493
41.50	1222.1	667.4	133.02	1.7229	1.493
41.75	1222.3	667.6	133.00	1.7186	1.494
42.00	1222.7	668.0	132.99	1.7143	1.495
42.25	1223.0	668.3	132.98	1.7101	1.496
42.50	1223.2	668.6	132.96	1.7059	1.496
42.75	1223.5	668.8	132.96	1.7018	1.497
43.00	1223.7	669.1	132.95	1.6977	1.498
43.25	1224.1	669.4	132.94	1.6936	1.498
43.50	1224.3	669.7	132.92	1.6897	1.499
43.75	1224.6	669.9	132.92	1.6857	1.500
44.00	1224.8	670.2	132.91	1.6818	1.500
44.25	1225.2	670.5	132.89	1.6780	1.501
44.50	1225.3	670.7	132.88	1.6742	1.501
44.75	1225.6	670.9	132.87	1.6704	1.502
45.00	1225.8	671.2	132.86	1.6667	1.503
45.25	1226.1	671.4	132.84	1.6630	1.503
45.50	1226.3	671.7	132.84	1.6593	1.504
45.75	1226.6	671.9	132.82	1.6557	1.505

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
46.00	1226.8	672.2	132.82	1.6522	1.505
46.25	1227.1	672.4	132.80	1.6486	1.506
46.50	1227.4	672.8	132.79	1.6452	1.507
46.75	1227.7	673.0	132.78	1.6417	1.507
47.00	1227.9	673.2	132.77	1.6383	1.508
47.25	1228.2	673.5	132.76	1.6349	1.508
47.50	1228.4	673.7	132.75	1.6316	1.509
47.75	1228.6	673.9	132.74	1.6283	1.509
48.00	1228.9	674.2	132.72	1.6250	1.510
48.25	1229.1	674.4	132.72	1.6218	1.511
48.50	1229.4	674.7	132.70	1.6186	1.511
48.75	1229.6	674.9	132.69	1.6154	1.512
49.00	1229.8	675.1	132.67	1.6122	1.512
49.25	1230.0	675.3	132.67	1.6091	1.513
49.50	1230.3	675.6	132.66	1.6061	1.514
49.75	1230.5	675.8	132.64	1.6030	1.514
50.00	1230.6	676.0	132.63	1.6000	1.514
50.25	1230.9	676.2	132.62	1.5970	1.515
50.50	1231.1	676.5	132.61	1.5941	1.516
50.75	1231.4	676.7	132.59	1.5911	1.516
51.00	1231.5	676.8	132.59	1.5882	1.517
51.25	1231.8	677.1	132.57	1.5854	1.517
51.50	1232.1	677.4	132.56	1.5825	1.518
51.75	1232.2	677.5	132.55	1.5797	1.518
52.00	1232.5	677.8	132.54	1.5769	1.519
52.25	1232.7	678.1	132.52	1.5742	1.520
52.50	1232.9	678.2	132.52	1.5714	1.520
52.75	1233.1	678.4	132.49	1.5687	1.520
53.00	1233.3	678.6	132.49	1.5660	1.521
53.25	1233.6	678.9	132.47	1.5634	1.522
53.50	1233.7	679.1	132.46	1.5607	1.522
53.75	1233.9	679.2	132.45	1.5581	1.523
54.00	1234.2	679.5	132.44	1.5556	1.523
54.25	1234.3	679.6	132.41	1.5530	1.524
54.50	1234.5	679.8	132.41	1.5505	1.524
54.75	1234.7	680.1	132.39	1.5479	1.525
55.00	1234.9	680.2	132.38	1.5455	1.525
55.25	1235.2	680.5	132.37	1.5430	1.526
55.50	1235.3	680.7	132.35	1.5405	1.526
55.75	1235.6	680.9	132.35	1.5381	1.527
56.00	1235.6	680.9	132.34	1.5357	1.527
56.25	1235.8	681.2	132.32	1.5333	1.527
56.50	1236.0	681.3	132.31	1.5310	1.528
56.75	1236.2	681.6	132.30	1.5286	1.528
57.00	1236.4	681.7	132.28	1.5263	1.529
57.25	1236.5	681.8	132.28	1.5240	1.529
57.50	1236.8	682.1	132.27	1.5217	1.530
57.75	1236.9	682.2	132.26	1.5195	1.530
58.00	1237.1	682.4	132.24	1.5172	1.530
58.25	1237.3	682.7	132.24	1.5150	1.531
58.50	1237.5	682.8	132.23	1.5128	1.531

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	58.75	1237.7	683.0	132.23	1.5106	1.532
	59.00	1237.8	683.1	132.24	1.5085	1.532
	59.25	1238.0	683.3	132.19	1.5063	1.533
	59.50	1238.2	683.5	132.18	1.5042	1.533
	59.75	1238.4	683.8	132.15	1.5021	1.534
	60.00	1238.6	683.9	132.13	1.5000	1.534
	60.25	1238.7	684.0	132.11	1.4979	1.534
	60.50	1238.9	684.3	132.11	1.4959	1.535
***** End Shut-in 1	60.75	1239.1	684.4	132.09	1.4938	1.535
***** Start Flow 2	0.00	579.7	0.0	132.06		
	0.25	577.9	-1.8	132.04		
	0.50	578.9	-0.8	132.01		
	0.75	581.1	1.4	131.99		
	1.00	583.4	3.7	131.97		
	1.25	585.7	6.0	131.94		
	1.50	588.2	8.6	131.92		
	1.75	590.8	11.1	131.91		
	2.00	593.2	13.5	131.89		
	2.25	595.5	15.9	131.88		
	2.50	598.0	18.3	131.87		
	2.75	600.5	20.8	131.87		
	3.00	603.0	23.3	131.87		
	3.25	605.9	26.2	131.87		
	3.50	608.4	28.7	131.89		
	3.75	611.0	31.3	131.96		
	4.00	613.6	33.9	131.93		
	4.25	616.3	36.6	131.95		
	4.50	618.8	39.1	131.98		
	4.75	621.3	41.6	132.00		
	5.00	623.7	44.0	132.04		
	5.25	626.3	46.7	132.07		
	5.50	628.8	49.1	132.11		
	5.75	631.1	51.4	132.14		
	6.00	633.4	53.7	132.17		
	6.25	635.9	56.2	132.21		
	6.50	638.2	58.5	132.25		
	6.75	640.5	60.8	132.29		
	7.00	642.8	63.1	132.31		
	7.25	645.3	65.6	132.36		
	7.50	647.5	67.8	132.39		
	7.75	649.7	70.0	132.42		
	8.00	651.9	72.2	132.46		
	8.25	654.3	74.6	132.49		
	8.50	656.6	76.9	132.53		
	8.75	658.9	79.2	132.56		
	9.00	661.1	81.4	132.59		
	9.25	663.5	83.8	132.62		
	9.50	665.7	86.0	132.65		
	9.75	667.9	88.2	132.68		
	10.00	669.9	90.2	132.71		
	10.25	672.1	92.4	132.74		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97 TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
10.50	674.4	94.8	132.76		
10.75	676.5	96.9	132.79		
11.00	678.6	99.0	132.81		
11.25	680.7	101.0	132.84		
11.50	682.8	103.1	132.87		
11.75	685.1	105.4	132.89		
12.00	687.1	107.4	132.92		
12.25	689.1	109.4	132.94		
12.50	691.1	111.5	132.97		
12.75	693.1	113.4	132.99		
13.00	695.3	115.7	133.00		
13.25	697.3	117.6	133.03		
13.50	699.3	119.6	133.06		
13.75	701.2	121.5	133.06		
14.00	703.1	123.5	133.08		
14.25	705.2	125.5	133.11		
14.50	707.3	127.6	133.12		
14.75	709.3	129.6	133.14		
15.00	711.1	131.4	133.16		
15.25	713.0	133.4	133.18		
15.50	714.9	135.2	133.19		
15.75	717.0	137.3	133.20		
16.00	718.9	139.2	133.22		
16.25	720.9	141.3	133.23		
16.50	722.8	143.1	133.24		
16.75	724.7	145.0	133.26		
17.00	726.5	146.8	133.27		
17.25	728.5	148.8	133.29		
17.50	730.3	150.7	133.29		
17.75	732.1	152.4	133.31		
18.00	733.8	154.1	133.32		
18.25	735.5	155.8	133.33		
18.50	737.1	157.4	133.35		
18.75	739.0	159.3	133.36		
19.00	740.7	161.0	133.37		
19.25	742.3	162.7	133.38		
19.50	744.1	164.4	133.38		
19.75	745.8	166.1	133.39		
20.00	747.5	167.9	133.40		
20.25	749.4	169.7	133.41		
20.50	751.0	171.3	133.43		
20.75	752.7	173.1	133.44		
21.00	754.5	174.8	133.44		
21.25	756.3	176.6	133.44		
21.50	757.9	178.3	133.45		
21.75	759.6	179.9	133.46		
22.00	761.5	181.8	133.47		
22.25	763.1	183.4	133.48		
22.50	764.8	185.1	133.47		
22.75	766.4	186.7	133.49		
23.00	767.9	188.3	133.49		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
23.25	769.6	189.9	133.50		
23.50	771.4	191.7	133.50		
23.75	773.0	193.3	133.52		
24.00	774.6	195.0	133.52		
24.25	776.2	196.6	133.53		
24.50	777.8	198.1	133.54		
24.75	779.3	199.6	133.54		
25.00	780.9	201.3	133.54		
25.25	782.6	202.9	133.54		
25.50	784.1	204.4	133.55		
25.75	785.6	206.0	133.55		
26.00	787.2	207.6	133.56		
26.25	788.7	209.1	133.56		
26.50	790.3	210.6	133.57		
26.75	791.8	212.1	133.49		
27.00	793.3	213.6	133.58		
27.25	794.8	215.1	133.58		
27.50	796.2	216.5	133.59		
27.75	797.7	218.0	133.59		
28.00	799.2	219.5	133.59		
28.25	800.7	221.0	133.60		
28.50	802.0	222.3	133.59		
28.75	803.6	223.9	133.60		
29.00	805.1	225.4	133.61		
29.25	806.5	226.9	133.61		
29.50	807.9	228.2	133.61		
29.75	809.3	229.6	133.62		
30.00	810.7	231.1	133.62		
30.25	812.1	232.4	133.63		
30.50	813.5	233.8	133.64		
30.75	815.1	235.4	133.63		
31.00	816.5	236.8	133.63		
31.25	818.0	238.3	133.63		
31.50	819.3	239.6	133.64		
31.75	820.6	240.9	133.64		
32.00	821.9	242.2	133.64		
32.25	823.2	243.6	133.64		
32.50	824.7	245.0	133.65		
32.75	826.3	246.7	133.65		
33.00	827.6	247.9	133.65		
33.25	828.9	249.3	133.66		
33.50	830.1	250.4	133.65		
33.75	831.5	251.8	133.66		
34.00	832.6	253.0	133.66		
34.25	834.1	254.4	133.66		
34.50	835.3	255.6	133.66		
34.75	836.8	257.2	133.66		
35.00	838.2	258.5	133.66		
35.25	839.5	259.8	133.66		
35.50	840.9	261.2	133.66		
35.75	842.1	262.4	133.67		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97 TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
36.00	843.4	263.7	133.67		
36.25	844.7	265.0	133.68		
36.50	846.0	266.3	133.67		
36.75	847.4	267.7	133.66		
37.00	848.8	269.1	133.67		
37.25	850.0	270.3	133.67		
37.50	851.3	271.6	133.67		
37.75	852.6	272.9	133.68		
38.00	853.8	274.1	133.68		
38.25	855.0	275.4	133.68		
38.50	856.3	276.6	133.68		
38.75	857.5	277.8	133.68		
39.00	858.9	279.2	133.68		
39.25	860.2	280.5	133.68		
39.50	861.3	281.7	133.68		
39.75	862.5	282.8	133.68		
40.00	863.7	284.0	133.68		
40.25	864.8	285.1	133.68		
40.50	866.0	286.4	133.68		
40.75	867.1	287.5	133.68		
41.00	868.2	288.5	133.68		
41.25	869.6	289.9	133.69		
41.50	870.7	291.1	133.68		
41.75	871.8	292.2	133.68		
42.00	873.1	293.4	133.70		
42.25	874.1	294.4	133.69		
42.50	875.3	295.6	133.69		
42.75	876.4	296.8	133.68		
43.00	877.5	297.9	133.69		
43.25	878.7	299.0	133.69		
43.50	880.1	300.4	133.69		
43.75	881.1	301.4	133.70		
44.00	882.2	302.6	133.69		
44.25	883.3	303.7	133.69		
44.50	884.3	304.7	133.69		
44.75	885.4	305.7	133.69		
45.00	886.4	306.8	133.69		
45.25	887.5	307.8	133.69		
45.50	888.6	308.9	133.69		
45.75	889.6	309.9	133.68		
46.00	891.0	311.3	133.69		
46.25	892.1	312.5	133.69		
46.50	893.2	313.6	133.70		
46.75	894.2	314.6	133.69		
47.00	895.2	315.6	133.70		
47.25	896.3	316.7	133.69		
47.50	897.3	317.7	133.70		
47.75	898.4	318.7	133.69		
48.00	899.4	319.7	133.69		
48.25	900.5	320.8	133.70		
48.50	901.7	322.0	133.70		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	48.75	902.8	323.1	133.63		
	49.00	903.9	324.2	133.69		
	49.25	904.9	325.2	133.69		
	49.50	905.9	326.2	133.70		
	49.75	907.0	327.3	133.70		
	50.00	907.9	328.2	133.70		
	50.25	908.9	329.2	133.69		
	50.50	909.9	330.3	133.69		
	50.75	910.9	331.3	133.69		
	51.00	912.0	332.3	133.70		
	51.25	913.1	333.4	133.70		
	51.50	914.1	334.5	133.70		
	51.75	915.1	335.4	133.69		
	52.00	916.1	336.4	133.69		
	52.25	917.1	337.4	133.70		
	52.50	917.9	338.2	133.70		
	52.75	918.7	339.1	133.70		
	53.00	919.8	340.2	133.69		
	53.25	920.8	341.1	133.70		
	53.50	921.7	342.0	133.70		
	53.75	922.7	343.0	133.69		
	54.00	923.8	344.1	133.69		
	54.25	924.7	345.0	133.70		
	54.50	925.6	346.0	133.70		
	54.75	926.5	346.8	133.71		
	55.00	927.5	347.8	133.69		
	55.25	928.4	348.7	133.70		
	55.50	929.3	349.6	133.69		
	55.75	930.2	350.6	133.69		
	56.00	931.2	351.5	133.70		
	56.25	932.0	352.3	133.69		
	56.50	932.8	353.2	133.69		
	56.75	933.9	354.3	133.69		
	57.00	934.9	355.2	133.69		
	57.25	935.8	356.1	133.69		
	57.50	936.6	356.9	133.69		
	57.75	937.5	357.8	133.69		
	58.00	938.3	358.6	133.70		
	58.25	939.2	359.5	133.68		
	58.50	940.0	360.3	133.69		
	58.75	940.9	361.2	133.69		
	59.00	941.7	362.1	133.69		
***** End Flow 2	59.25	944.4	364.8	133.68		
***** Start Shutin 2	0.00	944.4	0.0	133.68	0.0000	0.892
	0.25	942.9	-1.5	133.67	358.0000	0.889
	0.50	1048.1	103.7	133.69	179.5000	1.098
	0.75	1072.3	127.9	133.69	120.0000	1.150
	1.00	1085.3	140.9	133.69	90.2500	1.178
	1.25	1094.2	149.7	133.69	72.4000	1.197
	1.50	1100.5	156.1	133.71	60.5000	1.211
	1.75	1105.7	161.2	133.70	52.0000	1.222

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
2.00	1109.9	165.5	133.70	45.6250	1.232
2.25	1113.5	169.0	133.71	40.6667	1.240
2.50	1116.7	172.3	133.71	36.7000	1.247
2.75	1119.5	175.1	133.70	33.4545	1.253
3.00	1122.0	177.6	133.71	30.7500	1.259
3.25	1124.3	179.9	133.72	28.4615	1.264
3.50	1126.4	182.0	133.72	26.5000	1.269
3.75	1128.2	183.8	133.73	24.8000	1.273
4.00	1130.1	185.6	133.72	23.3125	1.277
4.25	1131.8	187.3	133.73	22.0000	1.281
4.50	1133.4	188.9	133.74	20.8333	1.284
4.75	1134.8	190.3	133.73	19.7895	1.288
5.00	1136.3	191.9	133.74	18.8500	1.291
5.25	1137.6	193.2	133.74	18.0000	1.294
5.50	1138.9	194.5	133.73	17.2273	1.297
5.75	1140.2	195.7	133.74	16.5217	1.300
6.00	1141.2	196.7	133.75	15.8750	1.302
6.25	1142.3	197.9	133.75	15.2800	1.305
6.50	1143.4	199.0	133.75	14.7308	1.307
6.75	1144.5	200.1	133.75	14.2222	1.310
7.00	1145.6	201.2	133.78	13.7500	1.312
7.25	1146.5	202.1	133.76	13.3103	1.315
7.50	1147.5	203.0	133.76	12.9000	1.317
7.75	1148.4	203.9	133.77	12.5161	1.319
8.00	1149.3	204.9	133.77	12.1562	1.321
8.25	1150.2	205.8	133.77	11.8182	1.323
8.50	1151.1	206.7	133.76	11.5000	1.325
8.75	1152.0	207.6	133.77	11.2000	1.327
9.00	1152.8	208.4	133.76	10.9167	1.329
9.25	1153.6	209.1	133.77	10.6486	1.331
9.50	1154.3	209.9	133.79	10.3947	1.332
9.75	1155.2	210.7	133.77	10.1538	1.334
10.00	1155.9	211.5	133.77	9.9250	1.336
10.25	1156.6	212.2	133.77	9.7073	1.338
10.50	1157.3	212.8	133.76	9.5000	1.339
10.75	1158.0	213.6	133.77	9.3023	1.341
11.00	1158.7	214.3	133.76	9.1136	1.343
11.25	1159.4	214.9	133.78	8.9333	1.344
11.50	1160.0	215.6	133.76	8.7609	1.346
11.75	1160.8	216.4	133.76	8.5957	1.347
12.00	1161.5	217.0	133.75	8.4375	1.349
12.25	1162.1	217.6	133.75	8.2857	1.350
12.50	1162.6	218.2	133.75	8.1400	1.352
12.75	1163.2	218.8	133.75	8.0000	1.353
13.00	1163.8	219.4	133.74	7.8654	1.354
13.25	1164.5	220.1	133.74	7.7358	1.356
13.50	1165.0	220.6	133.73	7.6111	1.357
13.75	1165.6	221.1	133.74	7.4909	1.359
14.00	1166.2	221.7	133.73	7.3750	1.360
14.25	1166.7	222.2	133.73	7.2632	1.361
14.50	1167.2	222.7	133.73	7.1552	1.362

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
14.75	1167.8	223.3	133.72	7.0508	1.364
15.00	1168.3	223.8	133.72	6.9500	1.365
15.25	1168.9	224.4	133.71	6.8525	1.366
15.50	1169.3	224.8	133.71	6.7581	1.367
15.75	1169.8	225.3	133.71	6.6667	1.368
16.00	1170.4	225.9	133.71	6.5781	1.370
16.25	1170.9	226.4	133.69	6.4923	1.371
16.50	1171.4	226.9	133.70	6.4091	1.372
16.75	1171.8	227.4	133.69	6.3284	1.373
17.00	1172.3	227.9	133.69	6.2500	1.374
17.25	1172.8	228.4	133.69	6.1739	1.375
17.50	1173.2	228.8	133.69	6.1000	1.376
17.75	1173.6	229.2	133.69	6.0282	1.377
18.00	1174.1	229.6	133.69	5.9583	1.378
18.25	1174.5	230.0	133.69	5.8904	1.379
18.50	1175.0	230.5	133.68	5.8243	1.381
18.75	1175.3	230.9	133.68	5.7600	1.381
19.00	1175.7	231.3	133.68	5.6974	1.382
19.25	1176.2	231.7	133.68	5.6364	1.383
19.50	1176.6	232.1	133.70	5.5769	1.384
19.75	1176.9	232.5	133.77	5.5190	1.385
20.00	1177.6	233.2	133.61	5.4625	1.387
20.25	1177.8	233.4	133.65	5.4074	1.387
20.50	1178.3	233.9	133.63	5.3537	1.388
20.75	1178.7	234.2	133.64	5.3012	1.389
21.00	1179.1	234.7	133.64	5.2500	1.390
21.25	1179.4	235.0	133.63	5.2000	1.391
21.50	1179.8	235.4	133.62	5.1512	1.392
21.75	1180.2	235.8	133.63	5.1034	1.393
22.00	1180.6	236.2	133.63	5.0568	1.394
22.25	1181.0	236.6	133.62	5.0112	1.395
22.50	1181.4	236.9	133.61	4.9667	1.396
22.75	1181.8	237.3	133.61	4.9231	1.397
23.00	1182.1	237.7	133.60	4.8804	1.397
23.25	1182.4	237.9	133.60	4.8387	1.398
23.50	1182.8	238.4	133.59	4.7979	1.399
23.75	1183.2	238.8	133.60	4.7579	1.400
24.00	1183.5	239.1	133.58	4.7188	1.401
24.25	1183.9	239.4	133.58	4.6804	1.402
24.50	1184.2	239.8	133.58	4.6429	1.402
24.75	1184.5	240.1	133.58	4.6061	1.403
25.00	1184.9	240.5	133.56	4.5700	1.404
25.25	1185.3	240.9	133.57	4.5347	1.405
25.50	1185.6	241.1	133.56	4.5000	1.406
25.75	1185.9	241.5	133.56	4.4660	1.406
26.00	1186.2	241.8	133.55	4.4327	1.407
26.25	1186.4	242.0	133.54	4.4000	1.408
26.50	1186.8	242.4	133.53	4.3679	1.409
26.75	1187.2	242.7	133.55	4.3364	1.409
27.00	1187.5	243.1	133.52	4.3056	1.410
27.25	1187.8	243.4	133.52	4.2752	1.411

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
27.50	1188.2	243.7	133.51	4.2455	1.412
27.75	1188.4	244.0	133.50	4.2162	1.412
28.00	1188.7	244.3	133.50	4.1875	1.413
28.25	1189.1	244.6	133.50	4.1593	1.414
28.50	1189.2	244.8	133.50	4.1316	1.414
28.75	1189.6	245.2	133.48	4.1043	1.415
29.00	1189.8	245.4	133.48	4.0776	1.416
29.25	1190.2	245.7	133.47	4.0513	1.417
29.50	1190.4	246.0	133.47	4.0254	1.417
29.75	1190.7	246.2	133.47	4.0000	1.418
30.00	1191.0	246.6	133.46	3.9750	1.419
30.25	1191.3	246.8	133.45	3.9504	1.419
30.50	1191.5	247.1	133.44	3.9262	1.420
30.75	1191.9	247.4	133.44	3.9024	1.421
31.00	1192.1	247.7	133.44	3.8790	1.421
31.25	1192.4	247.9	133.44	3.8560	1.422
31.50	1192.7	248.3	133.43	3.8333	1.423
31.75	1193.0	248.6	133.43	3.8110	1.423
32.00	1193.2	248.8	133.42	3.7891	1.424
32.25	1193.4	249.0	133.42	3.7674	1.424
32.50	1193.7	249.3	133.41	3.7462	1.425
32.75	1193.9	249.5	133.41	3.7252	1.426
33.00	1194.3	249.9	133.40	3.7045	1.426
33.25	1194.5	250.0	133.40	3.6842	1.427
33.50	1194.7	250.3	133.39	3.6642	1.427
33.75	1195.0	250.5	133.38	3.6444	1.428
34.00	1195.2	250.8	133.38	3.6250	1.429
34.25	1195.5	251.0	133.38	3.6058	1.429
34.50	1195.7	251.3	133.38	3.5870	1.430
34.75	1196.0	251.5	133.38	3.5683	1.430
35.00	1196.1	251.7	133.37	3.5500	1.431
35.25	1196.5	252.0	133.36	3.5319	1.432
35.50	1196.6	252.2	133.35	3.5141	1.432
35.75	1196.9	252.5	133.36	3.4965	1.433
36.00	1197.1	252.7	133.35	3.4792	1.433
36.25	1197.4	253.0	133.35	3.4621	1.434
36.50	1197.6	253.1	133.35	3.4452	1.434
36.75	1197.8	253.4	133.34	3.4286	1.435
37.00	1198.1	253.6	133.34	3.4122	1.435
37.25	1198.3	253.9	133.33	3.3960	1.436
37.50	1198.6	254.1	133.33	3.3800	1.437
37.75	1198.7	254.3	133.32	3.3642	1.437
38.00	1199.0	254.6	133.32	3.3487	1.438
38.25	1199.2	254.8	133.31	3.3333	1.438
38.50	1199.4	255.0	133.31	3.3182	1.439
38.75	1199.7	255.2	133.30	3.3032	1.439
39.00	1199.9	255.5	133.30	3.2885	1.440
39.25	1200.1	255.6	133.29	3.2739	1.440
39.50	1200.3	255.9	133.29	3.2595	1.441
39.75	1200.5	256.1	133.28	3.2453	1.441
40.00	1200.7	256.3	133.28	3.2313	1.442

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
40.25	1201.0	256.6	133.27	3.2174	1.442
40.50	1201.2	256.7	133.27	3.2037	1.443
40.75	1201.3	256.9	133.26	3.1902	1.443
41.00	1201.6	257.2	133.26	3.1768	1.444
41.25	1201.8	257.3	133.27	3.1636	1.444
41.50	1202.0	257.6	133.25	3.1506	1.445
41.75	1202.3	257.8	133.25	3.1377	1.445
42.00	1202.4	258.0	133.24	3.1250	1.446
42.25	1202.6	258.2	133.23	3.1124	1.446
42.50	1202.8	258.4	133.23	3.1000	1.447
42.75	1203.0	258.6	133.22	3.0877	1.447
43.00	1203.2	258.7	133.23	3.0756	1.448
43.25	1203.3	258.9	133.21	3.0636	1.448
43.50	1203.5	259.1	133.21	3.0517	1.448
43.75	1203.8	259.3	133.20	3.0400	1.449
44.00	1203.9	259.5	133.20	3.0284	1.449
44.25	1204.1	259.7	133.19	3.0169	1.450
44.50	1204.3	259.8	133.18	3.0056	1.450
44.75	1204.5	260.1	133.18	2.9944	1.451
45.00	1204.6	260.2	133.17	2.9833	1.451
45.25	1204.9	260.4	133.17	2.9724	1.452
45.50	1205.0	260.6	133.16	2.9615	1.452
45.75	1205.3	260.8	133.15	2.9508	1.453
46.00	1205.5	261.1	133.14	2.9402	1.453
46.25	1205.6	261.2	133.13	2.9297	1.454
46.50	1205.9	261.4	133.13	2.9194	1.454
46.75	1206.0	261.5	133.12	2.9091	1.454
47.00	1206.1	261.7	133.12	2.8989	1.455
47.25	1206.4	261.9	133.11	2.8889	1.455
47.50	1206.5	262.1	133.11	2.8789	1.456
47.75	1206.7	262.3	133.10	2.8691	1.456
48.00	1207.0	262.5	133.09	2.8594	1.457
48.25	1207.0	262.6	133.09	2.8497	1.457
48.50	1207.2	262.8	133.07	2.8402	1.457
48.75	1207.5	263.0	133.07	2.8308	1.458
49.00	1207.5	263.1	133.07	2.8214	1.458
49.25	1207.7	263.3	133.06	2.8122	1.459
49.50	1207.9	263.4	133.05	2.8030	1.459
49.75	1208.1	263.7	133.05	2.7940	1.460
50.00	1208.2	263.8	133.05	2.7850	1.460
50.25	1208.5	264.0	133.03	2.7761	1.460
50.50	1208.6	264.2	133.02	2.7673	1.461
50.75	1208.7	264.3	133.02	2.7586	1.461
51.00	1208.9	264.5	133.01	2.7500	1.461
51.25	1209.1	264.7	133.01	2.7415	1.462
51.50	1209.2	264.8	133.00	2.7330	1.462
51.75	1209.5	265.0	132.99	2.7246	1.463
52.00	1209.6	265.1	132.98	2.7163	1.463
52.25	1209.6	265.2	132.98	2.7081	1.463
52.50	1209.8	265.4	132.96	2.7000	1.464
52.75	1210.1	265.7	132.96	2.6919	1.464

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
53.00	1210.2	265.8	132.96	2.6840	1.465
53.25	1210.4	266.0	132.95	2.6761	1.465
53.50	1210.5	266.1	132.94	2.6682	1.465
53.75	1210.7	266.2	132.94	2.6605	1.466
54.00	1210.8	266.4	132.93	2.6528	1.466
54.25	1211.0	266.6	132.92	2.6452	1.466
54.50	1211.2	266.7	132.92	2.6376	1.467
54.75	1211.3	266.9	132.91	2.6301	1.467
55.00	1211.4	267.0	132.91	2.6227	1.468
55.25	1211.6	267.1	132.90	2.6154	1.468
55.50	1211.7	267.3	132.89	2.6081	1.468
55.75	1211.8	267.4	132.88	2.6009	1.469
56.00	1212.0	267.6	132.88	2.5938	1.469
56.25	1212.2	267.7	132.87	2.5867	1.469
56.50	1212.2	267.8	132.86	2.5796	1.470
56.75	1212.4	268.0	132.87	2.5727	1.470
57.00	1212.6	268.1	132.85	2.5658	1.470
57.25	1212.7	268.3	132.85	2.5590	1.471
57.50	1212.9	268.5	132.85	2.5522	1.471
57.75	1213.0	268.6	132.83	2.5455	1.471
58.00	1213.1	268.7	132.83	2.5388	1.472
58.25	1213.3	268.8	132.82	2.5322	1.472
58.50	1213.4	269.0	132.80	2.5256	1.472
58.75	1213.6	269.2	132.78	2.5191	1.473
59.00	1213.7	269.2	132.78	2.5127	1.473
59.25	1213.8	269.4	132.78	2.5063	1.473
59.50	1213.9	269.5	132.78	2.5000	1.474
59.75	1214.0	269.6	132.77	2.4937	1.474
60.00	1214.2	269.7	132.76	2.4875	1.474
60.25	1214.4	270.0	132.76	2.4813	1.475
60.50	1214.6	270.2	132.75	2.4752	1.475
60.75	1214.8	270.3	132.75	2.4691	1.476
61.00	1214.9	270.5	132.74	2.4631	1.476
61.25	1215.0	270.6	132.74	2.4571	1.476
61.50	1215.2	270.8	132.73	2.4512	1.477
61.75	1215.3	270.8	132.72	2.4453	1.477
62.00	1215.4	271.0	132.71	2.4395	1.477
62.25	1215.6	271.2	132.71	2.4337	1.478
62.50	1215.7	271.3	132.70	2.4280	1.478
62.75	1215.9	271.4	132.70	2.4223	1.478
63.00	1215.9	271.4	132.69	2.4167	1.478
63.25	1216.0	271.6	132.68	2.4111	1.479
63.50	1216.2	271.8	132.68	2.4055	1.479
63.75	1216.4	271.9	132.67	2.4000	1.480
64.00	1216.4	272.0	132.66	2.3945	1.480
64.25	1216.6	272.2	132.66	2.3891	1.480
64.50	1216.6	272.2	132.64	2.3837	1.480
64.75	1216.8	272.4	132.65	2.3784	1.481
65.00	1216.8	272.4	132.63	2.3731	1.481
65.25	1216.9	272.5	132.64	2.3678	1.481
65.50	1217.1	272.7	132.62	2.3626	1.481

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
65.75	1217.2	272.8	132.61	2.3574	1.482
66.00	1217.3	272.8	132.60	2.3523	1.482
66.25	1217.4	273.0	132.60	2.3472	1.482
66.50	1217.5	273.1	132.60	2.3421	1.482
66.75	1217.6	273.2	132.59	2.3371	1.483
67.00	1217.8	273.4	132.58	2.3321	1.483
67.25	1217.9	273.4	132.58	2.3271	1.483
67.50	1218.0	273.6	132.57	2.3222	1.484
67.75	1218.1	273.7	132.56	2.3173	1.484
68.00	1218.3	273.9	132.56	2.3125	1.484
68.25	1218.4	273.9	132.54	2.3077	1.484
68.50	1218.5	274.0	132.54	2.3029	1.485
68.75	1218.5	274.1	132.53	2.2982	1.485
69.00	1218.6	274.2	132.52	2.2935	1.485
69.25	1218.8	274.4	132.52	2.2888	1.485
69.50	1218.9	274.4	132.51	2.2842	1.486
69.75	1219.0	274.6	132.51	2.2796	1.486
70.00	1219.2	274.8	132.51	2.2750	1.486
70.25	1219.3	274.9	132.49	2.2705	1.487
70.50	1219.4	274.9	132.49	2.2660	1.487
70.75	1219.5	275.0	132.48	2.2615	1.487
71.00	1219.6	275.2	132.48	2.2570	1.487
71.25	1219.7	275.3	132.46	2.2526	1.488
71.50	1219.8	275.4	132.47	2.2483	1.488
71.75	1219.9	275.5	132.45	2.2439	1.488
72.00	1220.1	275.6	132.45	2.2396	1.489
72.25	1220.2	275.8	132.44	2.2353	1.489
72.50	1220.3	275.9	132.43	2.2310	1.489
72.75	1220.4	276.0	132.43	2.2268	1.489
73.00	1220.5	276.0	132.42	2.2226	1.490
73.25	1220.6	276.1	132.41	2.2184	1.490
73.50	1220.6	276.2	132.40	2.2143	1.490
73.75	1220.8	276.4	132.40	2.2102	1.490
74.00	1220.8	276.4	132.40	2.2061	1.490
74.25	1221.0	276.5	132.40	2.2020	1.491
74.50	1221.1	276.7	132.39	2.1980	1.491
74.75	1221.2	276.8	132.38	2.1940	1.491
75.00	1221.3	276.9	132.37	2.1900	1.492
75.25	1221.5	277.1	132.37	2.1860	1.492
75.50	1221.6	277.2	132.36	2.1821	1.492
75.75	1221.6	277.2	132.35	2.1782	1.492
76.00	1221.6	277.2	132.35	2.1743	1.492
76.25	1221.7	277.3	132.34	2.1705	1.493
76.50	1221.9	277.5	132.33	2.1667	1.493
76.75	1222.0	277.5	132.33	2.1629	1.493
77.00	1222.1	277.6	132.31	2.1591	1.493
77.25	1222.2	277.8	132.31	2.1553	1.494
77.50	1222.2	277.8	132.31	2.1516	1.494
77.75	1222.4	278.0	132.30	2.1479	1.494
78.00	1222.5	278.1	132.29	2.1442	1.494
78.25	1222.6	278.1	132.28	2.1406	1.495

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9639 DST #1 #1-11 Bertrand McCoy Petroleum

DATE: 03/09/97

TIME: 09:58:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	78.50	1222.7	278.3	132.28	2.1369	1.495
	78.75	1222.8	278.4	132.28	2.1333	1.495
	79.00	1222.9	278.5	132.27	2.1297	1.495
	79.25	1223.2	278.7	132.27	2.1262	1.496
	79.50	1223.2	278.7	132.26	2.1226	1.496
	79.75	1223.3	278.8	132.25	2.1191	1.496
	80.00	1223.3	278.9	132.25	2.1156	1.497
	80.25	1223.3	278.9	132.24	2.1121	1.497
	80.50	1223.5	279.1	132.24	2.1087	1.497
	80.75	1223.5	279.1	132.23	2.1053	1.497
	81.00	1223.7	279.2	132.23	2.1019	1.497
	81.25	1223.7	279.3	132.22	2.0985	1.498
	81.50	1223.8	279.4	132.22	2.0951	1.498
	81.75	1223.9	279.5	132.21	2.0917	1.498
	82.00	1224.0	279.6	132.21	2.0884	1.498
	82.25	1224.1	279.6	132.20	2.0851	1.498
	82.50	1224.2	279.7	132.20	2.0818	1.499
	82.75	1224.4	279.9	132.19	2.0785	1.499
	83.00	1224.4	279.9	132.18	2.0753	1.499
	83.25	1224.4	280.0	132.16	2.0721	1.499
	83.50	1224.5	280.1	132.16	2.0689	1.499
	83.75	1224.6	280.2	132.15	2.0657	1.500
	84.00	1224.7	280.2	132.15	2.0625	1.500
	84.25	1224.9	280.4	132.14	2.0593	1.500
	84.50	1224.9	280.4	132.14	2.0562	1.500
	84.75	1224.9	280.5	132.14	2.0531	1.500
	85.00	1225.1	280.7	132.13	2.0500	1.501
	85.25	1225.2	280.7	132.12	2.0469	1.501
	85.50	1225.3	280.8	132.12	2.0439	1.501
	85.75	1225.4	281.0	132.11	2.0408	1.502
	86.00	1225.5	281.1	132.11	2.0378	1.502
	86.25	1225.6	281.2	132.10	2.0348	1.502
	86.50	1225.7	281.2	132.10	2.0318	1.502
	86.75	1225.8	281.3	132.09	2.0288	1.503
	87.00	1225.8	281.3	132.09	2.0259	1.503
	87.25	1225.9	281.4	132.08	2.0229	1.503
	87.50	1225.9	281.5	132.08	2.0200	1.503
	87.75	1226.0	281.6	132.08	2.0171	1.503
	88.00	1226.1	281.7	132.06	2.0142	1.503
	88.25	1226.2	281.7	132.05	2.0113	1.504
	88.50	1226.3	281.8	132.06	2.0085	1.504
	88.75	1226.3	281.9	132.05	2.0056	1.504
	89.00	1226.4	282.0	132.05	2.0028	1.504
	89.25	1226.5	282.1	132.04	2.0000	1.504
	89.50	1226.6	282.2	132.04	1.9972	1.505
	89.75	1226.7	282.3	132.03	1.9944	1.505
***** End Shut-in 2	90.00	1226.7	282.3	132.02	1.9917	1.505
***** Final Hydro.	434.25	2070.2	0.0	131.99		

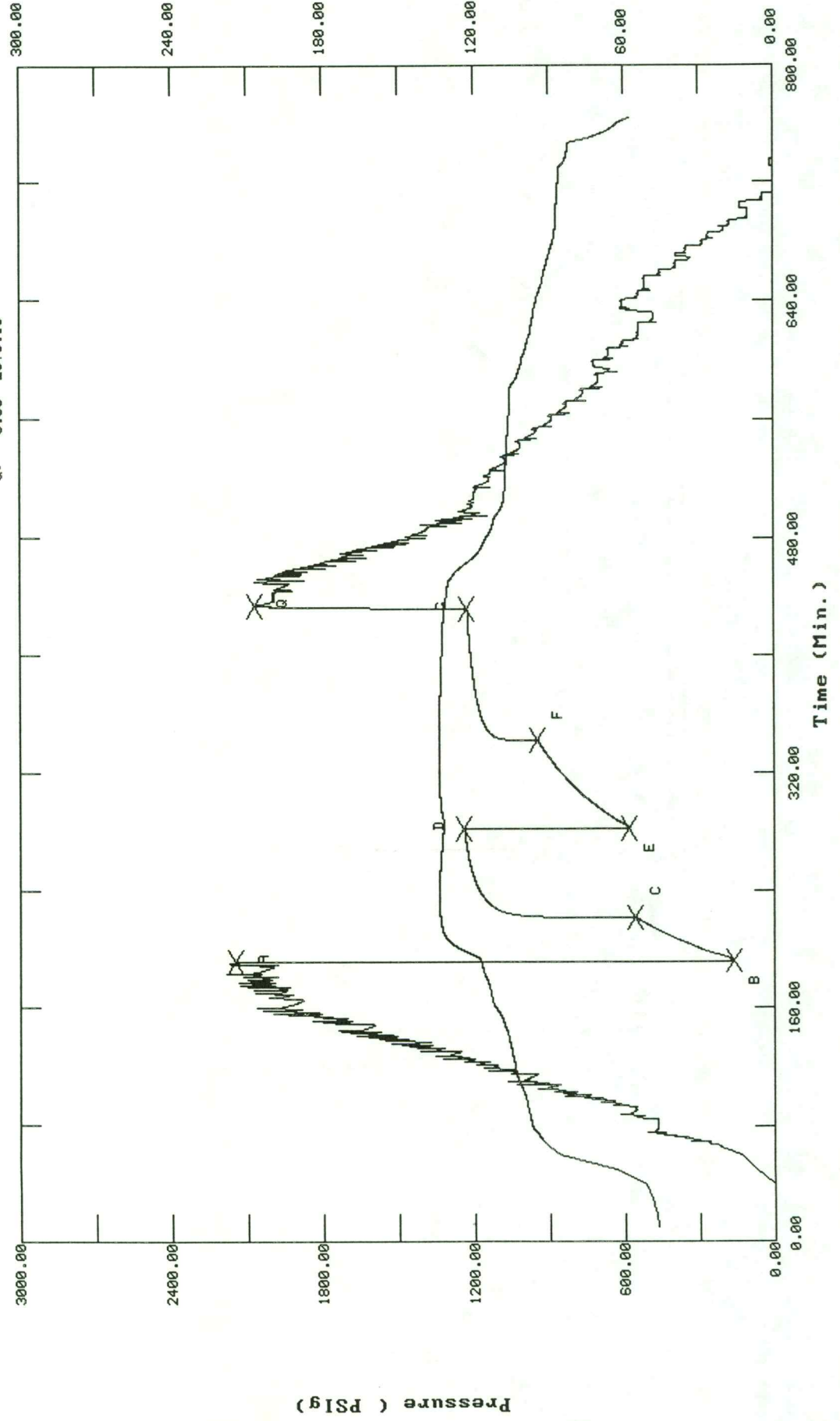
TEST HISTORY

9639 DST #1 #1-11 Bertrand McCoy Petroleum

Flag Points

t(Min.) P(PSig)

A: 0.00 2148.88
B: 0.00 168.80
C: 30.00 554.67
D: 60.75 1239.10
E: 0.00 579.68
F: 59.25 944.43
G: 90.00 1226.70
Q: 0.00 2070.16



1105705741

X

A hand-drawn diagram on a piece of paper. At the top, there is a horizontal line segment with points A and B. Below this, a series of connected line segments form a profile, with points C, D, E, F, and G marked along it. The profile starts at point A, goes down to C, then up to D, then down to E, then up to F, and finally down to G. The line from G to the right edge of the paper is jagged, suggesting a rough or uneven surface. A large, handwritten 'X' is drawn across the left side of the page, over the number '1105705741'.

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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9639

Well Name & No. <u>Bertrand A" #1-11</u>	Test No. <u>1</u>	Date <u>3-9-97</u>
Company <u>McCoy Petroleum</u>	Zone Tested <u>L-KC-K"</u>	
Address <u>3017 N. Cypress Wichita, KS 67226</u>	Elevation _____	KB _____ GL _____
Co. Rep / Geo. <u>John Hastings</u>	Cont. <u>Sweetman #2</u>	Est. Ft. of Pay _____ Por. _____ %
Location: Sec. <u>11</u> Twp. <u>11</u> Rge. <u>34</u>	Co. <u>Logan</u>	State <u>KS</u>
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>Y</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested <u>4330</u>	<u>4356'</u>	Initial Str Wt./Lbs. <u>66,000</u>	Unseated Str Wt./Lbs. <u>75,000</u>
Anchor Length _____	<u>26'</u>	Wt. Set Lbs. <u>28,000</u>	Wt. Pulled Loose/Lbs. <u>20,000</u>
Top Packer Depth _____	<u>4325'</u>	Tool Weight <u>4,000</u>	
Bottom Packer Depth _____	<u>4330'</u>	Hole Size — 7 7/8" ☒	Rubber Size — 6 3/4" ☒
Total Depth _____	<u>4356'</u>	Wt. Pipe Run _____	Drill Collar Run <u>283'</u>
Mud Wt. <u>9.1</u> LCM <u>Time</u> Vis. <u>56</u> WL <u>10.4</u>		Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>4070'</u>
Blow Description <u>B.O.B 1/2 min. (Strong blow)</u>			

IS: Bleed off Blow for 9 min. weak return in 1 min. built to 5 in.
 FF: B.O.B 1/2 min.
 FS: Bleed off Blow for 5 min. weak return in 4 min. 1/8 in. died in 20 min.

Recovery — Total Feet <u>2555'</u>	GIP <u>730'</u>	Ft. in DC <u>283'</u>	Ft. in DP <u>2272</u>
Rec. <u>2460'</u>	Feet Of <u>Clean Gassy Oil</u>	10 % gas 90 % oil	— % water — % mud
Rec. <u>95'</u>	Feet Of <u>Sli. Muddy Gas Cut Oil</u>	50 % gas 40 % oil	— % water 10 % mud
Rec. _____	Feet Of _____	% gas % oil	% water % mud
Rec. _____	Feet Of _____	% gas % oil	% water % mud
Rec. _____	Feet Of _____	% gas % oil	% water % mud
BHT <u>133°</u>	°F Gravity <u>34</u>	°API D @ <u>60</u>	°F Corrected Gravity <u>34</u> °API
RW _____ @ _____	°F Chlorides _____	ppm Recovery Chlorides <u>4,200</u>	ppm System

(A) Initial Hydrostatic Mud <u>2208</u> <u>2148</u> PSI	Recorder No. <u>2342</u>	T-Started <u>09:55 A.M.</u>
(B) First Initial Flow Pressure <u>224</u> <u>160</u> PSI	(depth) <u>4336'</u>	T-Open <u>13:07 P.M.</u>
(C) First Final Flow Pressure <u>537</u> <u>554</u> PSI	Recorder No. <u>11057</u>	T-Pulled <u>17:07 P.M.</u>
(D) Initial Shut-in Pressure <u>1152</u> <u>1239</u> PSI	(depth) <u>4351'</u>	T-Out <u>23:00 P.M.</u>
(E) Second Initial Flow Pressure <u>649</u> <u>579</u> PSI	Recorder No. _____	
(F) Second Final Flow Pressure <u>962</u> <u>944</u> PSI	(depth) _____	
(G) Final Shut-in Pressure <u>1242</u> <u>1226</u> PSI	Initial Opening <u>30</u>	Test <u>X</u> <u>700</u>
(H) Final Hydrostatic Mud <u>2185</u> <u>2070</u> PSI	Initial Shut-in <u>60</u>	Jars _____

AK-1 AK-1we

Final Flow <u>60</u>	Safety Joint <u>X</u> <u>50</u>
Final Shut-in <u>90</u>	Straddle _____
	Circ. Sub <u>X</u> <u>N/C</u>
	Sampler _____
	Extra Packer _____
	Elect. Rec. <u>X</u> <u>150</u>
	Other _____
	TOTAL PRICE \$ <u>900</u>

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]

Our Representative [Signature]

TRILOBITE TESTING L.L.C.

OPERATOR : McCoy Petroleum Corp
WELL NAME: Bertrand 1-11
LOCATION : 11-11S-34W
INTERVAL : 4624.00 To 4687.00 ft

DATE 3-11-97
KB 3190.00 ft TICKET NO: 9640 DST #2
GR 3180.00 ft FORMATION: Johnson
TD 4788.00 ft TEST TYPE: CONV.STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11057	11057	2342			PF Fr. 1755 to 1825 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1825 to 1925 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 1925 to 2025 hr
FS 90 Depth(ft)	4678.0	4678.0	4647.0	0.0	0.0	FS Fr. 2025 to 2155 hr

	Field	1	2	3	4	
A. Init Hydro	2377.0	2346.0	2331.0	0.0	0.0	T STARTED 1524 hr
B. First Flow	112.0	104.0	44.0	0.0	0.0	T ON BOTM 1752 hr
B1. Final Flow	201.0	187.0	194.0	0.0	0.0	T OPEN 1755 hr
C. In Shut-in	995.0	973.0	995.0	0.0	0.0	T PULLED 2155 hr
D. Init Flow	269.0	257.0	202.0	0.0	0.0	T OUT 0130 hr
E. Final Flow	347.0	327.0	319.0	0.0	0.0	
F. Fl Shut-in	995.0	982.0	981.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2355.0	2286.0	2215.0	0.0	0.0	Tool Wt. 6000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 78000.00 lbs
						Initial Str Wt 68000.00 lbs
						Unseated Str Wt 71000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 252.00 ft
						D.P. Length 4500.00 ft

RECOVERY

Tot Fluid 700.00 ft of 176.00 ft in DC and 524.00 ft in DP
200.00 ft of Drilling Mud 100% mud
500.00 ft of Water 100% water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of RW 1.178 7 71
0.00 ft of
SALINITY 30000.00 P.P.M. A.P.T. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Bottom of bucket in 13 mins

Initial Shut In:
No return

Final Flow:
Weak surface blow, built to 6.5"

Final Shut In:
No return

SAMPLES:
SENT TO:

MUD DATA-----
Mud Type Chemical
Weight 9.30 lb/c
Vis. 51.00 S/L
W.L. 10.40 in3
F.C. 0.00 in
Mud Drop N

Amt. of fill 0.00 ft
Btm. H. Temp. 135.00 F
Hole Condition good
% Porosity 0.00
Packer Size 6.75 in
No. of Packers 3
Cushion Amt. 0.00
Cushion Type
Reversed Out N
Tool Chased N
Tester Shane McBride
Co. Rep. John Hastings
Contr. Sweetman
Rig # 2
Unit #
Pump T.

Test Successful: N

*** TOOL DIAGRAM *** CONV.STRADDLE

WELL NAME: Bertrand 1-11

LOCATION : 11-11S-34W

TICKET No. 9640 D.S.T. No. 2 DATE 3-11-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 22

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 39

TOTAL TOOL 61

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands1 Single Total 85

D.P. ANCHOR STND.Stands Single 1 Total 30

TOTAL ASSEMBLY 176

D.C. ABOVE TOOLS.Stands2 Single Total 167

D.P. ABOVE TOOLS.Stands Single Total 4458

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4801

TOTAL DEPTH 4788

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

P.O. SUB	
C.O. SUB 1'	4612
S.I. TOOL 5'	4618
HMV 5'	4623
JARS n/a	
SAFETY JOINT 2'	4625
PACKER Top	4629
PACKER Bottom	4634
DEPTH 4634	
STUBB 1'	4635
ANCHOR 11' perf	4646
1' c.o.	4647
Alpine rec. @	4647
30' drillpipe	4677
1' c.o.	4678
Ak-1 rec. @	4678
5'-perf	4683
1' blank off	4684
3' top of strddle	4687
T.C.	
DEPTH	
PACKER straddle packer	4687
1' stubb	4688
8' perf	4696
1' c.o.	4697
85' collars	4782
1' c.o.	4783
Ak-1 rec. @	
BULLNOSE 5' bullplug	4788
T.D.	4788

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	150.25	2317.7	0.0	124.70		
***** Start Flow 1	0.00	44.7	0.0	124.79		
	0.25	48.6	3.9	124.85		
	0.50	55.1	10.4	124.92		
	0.75	66.5	21.8	124.98		
	1.00	71.1	26.4	125.04		
	1.25	74.4	29.6	125.09		
	1.50	78.2	33.5	125.15		
	1.75	83.1	38.4	125.20		
	2.00	86.3	41.5	125.26		
	2.25	89.4	44.6	125.31		
	2.50	92.0	47.3	125.37		
	2.75	94.8	50.1	125.44		
	3.00	97.4	52.7	125.49		
	3.25	100.7	56.0	125.56		
	3.50	103.7	59.0	125.63		
	3.75	106.9	62.2	125.69		
	4.00	109.6	64.9	125.77		
	4.25	110.6	65.9	125.83		
	4.50	111.7	67.0	125.89		
	4.75	111.4	66.6	125.96		
	5.00	113.3	68.6	126.03		
	5.25	116.7	72.0	126.09		
	5.50	118.0	73.3	126.16		
	5.75	119.2	74.4	126.24		
	6.00	119.9	75.2	126.30		
	6.25	120.8	76.1	126.36		
	6.50	121.0	76.3	126.43		
	6.75	122.6	77.9	126.50		
	7.00	123.7	79.0	126.55		
	7.25	124.5	79.8	126.61		
	7.50	125.5	80.8	126.67		
	7.75	126.7	82.0	126.73		
	8.00	127.3	82.6	126.78		
	8.25	129.5	84.8	126.84		
	8.50	129.1	84.3	126.89		
	8.75	130.3	85.6	126.95		
	9.00	132.2	87.5	127.00		
	9.25	133.1	88.4	127.04		
	9.50	135.1	90.4	127.10		
	9.75	136.8	92.1	127.14		
	10.00	136.5	91.8	127.19		
	10.25	137.0	92.2	127.24		
	10.50	137.9	93.2	127.29		
	10.75	138.9	94.2	127.34		
	11.00	140.1	95.3	127.37		
	11.25	144.2	99.5	127.42		
	11.50	142.0	97.3	127.47		
	11.75	143.9	99.2	127.51		
	12.00	143.9	99.2	127.56		
	12.25	144.7	100	127.59		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
12.50	144.8	100.0	127.64		
12.75	145.5	100.8	127.67		
13.00	147.8	103.1	127.71		
13.25	149.6	104.9	127.74		
13.50	150.1	105.4	127.78		
13.75	150.8	106.1	127.81		
14.00	151.7	107.0	127.85		
14.25	152.6	107.8	127.88		
14.50	153.2	108.5	127.92		
14.75	154.1	109.4	127.94		
15.00	154.7	109.9	127.98		
15.25	155.3	110.5	128.00		
15.50	155.9	111.2	128.03		
15.75	156.1	111.4	128.06		
16.00	157.3	112.5	128.08		
16.25	158.1	113.4	128.11		
16.50	159.0	114.2	128.14		
16.75	159.7	115.0	128.17		
17.00	158.4	113.7	128.20		
17.25	159.2	114.5	128.23		
17.50	159.9	115.1	128.25		
17.75	160.5	115.7	128.27		
18.00	161.1	116.4	128.30		
18.25	161.8	117.1	128.31		
18.50	162.5	117.8	128.35		
18.75	163.1	118.4	128.37		
19.00	164.0	119.3	128.39		
19.25	164.6	119.8	128.42		
19.50	165.3	120.6	128.44		
19.75	165.8	121.1	128.47		
20.00	166.6	121.9	128.48		
20.25	167.3	122.6	128.51		
20.50	168.1	123.4	128.53		
20.75	168.8	124.0	128.55		
21.00	169.8	125.1	128.58		
21.25	170.5	125.8	128.60		
21.50	171.3	126.6	128.62		
21.75	172.0	127.3	128.64		
22.00	172.8	128.1	128.66		
22.25	173.6	128.8	128.69		
22.50	174.1	129.4	128.70		
22.75	174.7	130.0	128.73		
23.00	175.4	130.7	128.75		
23.25	176.0	131.3	128.77		
23.50	176.7	131.9	128.79		
23.75	177.3	132.6	128.82		
24.00	178.0	133.3	128.84		
24.25	178.6	133.9	128.86		
24.50	179.3	134.5	128.88		
24.75	179.8	135.1	128.90		
25.00	180.5	135.8	128.92		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.25	181.2	136.5	128.94		
	25.50	182.1	137.4	128.96		
	25.75	182.8	138.1	128.99		
	26.00	183.5	138.7	129.00		
	26.25	184.1	139.4	129.02		
	26.50	184.8	140.1	129.04		
	26.75	185.4	140.7	129.07		
	27.00	186.1	141.3	129.08		
	27.25	186.7	142.0	129.10		
	27.50	187.3	142.6	129.12		
	27.75	187.9	143.2	129.14		
	28.00	188.6	143.9	129.16		
	28.25	189.2	144.4	129.18		
	28.50	189.8	145.0	129.20		
	28.75	190.4	145.7	129.22		
	29.00	191.1	146.4	129.24		
	29.25	191.7	147.0	129.26		
	29.50	192.4	147.7	129.28		
	29.75	193.0	148.3	129.30		
	30.00	193.6	148.9	129.31		
***** End Flow 1	30.25	194.3	149.6	129.34		
***** Start Shutin 1	0.00	194.3	0.0	129.34	0.0000	0.038
	0.25	200.4	6.1	129.35	122.0000	0.040
	0.50	320.2	125.9	129.38	61.5000	0.103
	0.75	392.6	198.3	129.41	41.3333	0.154
	1.00	448.5	254.2	129.43	31.2500	0.201
	1.25	493.2	299.0	129.45	25.2000	0.243
	1.50	529.2	335.0	129.47	21.1667	0.280
	1.75	557.9	363.6	129.49	18.2857	0.311
	2.00	580.9	386.6	129.52	16.1250	0.337
	2.25	599.7	405.4	129.54	14.4444	0.360
	2.50	615.3	421.0	129.57	13.1000	0.379
	2.75	628.5	434.2	129.59	12.0000	0.395
	3.00	639.9	445.7	129.63	11.0833	0.410
	3.25	649.9	455.6	129.66	10.3077	0.422
	3.50	658.7	464.5	129.68	9.6429	0.434
	3.75	666.8	472.5	129.71	9.0667	0.445
	4.00	673.9	479.6	129.75	8.5625	0.454
	4.25	680.5	486.2	129.79	8.1176	0.463
	4.50	686.5	492.2	129.82	7.7222	0.471
	4.75	692.0	497.7	129.86	7.3684	0.479
	5.00	697.1	502.8	129.90	7.0500	0.486
	5.25	701.9	507.6	129.94	6.7619	0.493
	5.50	706.3	512.0	129.98	6.5000	0.499
	5.75	710.6	516.3	130.03	6.2609	0.505
	6.00	714.6	520.3	130.08	6.0417	0.511
	6.25	718.2	524.0	130.12	5.8400	0.516
	6.50	721.9	527.7	130.17	5.6538	0.521
	6.75	725.4	531.1	130.22	5.4815	0.526
	7.00	728.7	534.4	130.27	5.3214	0.531
	7.25	731.8	537.5	130.30	5.1724	0.535

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
7.50	734.8	540.5	130.36	5.0333	0.540
7.75	737.8	543.5	130.40	4.9032	0.544
8.00	740.6	546.3	130.45	4.7812	0.548
8.25	743.3	549.0	130.50	4.6667	0.552
8.50	745.9	551.7	130.55	4.5588	0.556
8.75	748.5	554.2	130.59	4.4571	0.560
9.00	751.0	556.7	130.63	4.3611	0.564
9.25	753.3	559.0	130.69	4.2703	0.568
9.50	755.8	561.5	130.73	4.1842	0.571
9.75	758.0	563.7	130.77	4.1026	0.575
10.00	760.2	565.9	130.81	4.0250	0.578
10.25	762.5	568.2	130.85	3.9512	0.581
10.50	764.6	570.3	130.89	3.8810	0.585
10.75	766.7	572.4	130.93	3.8140	0.588
11.00	768.8	574.5	130.98	3.7500	0.591
11.25	770.7	576.4	131.02	3.6889	0.594
11.50	772.6	578.3	131.05	3.6304	0.597
11.75	774.6	580.3	131.09	3.5745	0.600
12.00	776.5	582.2	131.13	3.5208	0.603
12.25	778.5	584.2	131.16	3.4694	0.606
12.50	780.4	586.1	131.20	3.4200	0.609
12.75	782.4	588.1	131.23	3.3725	0.612
13.00	784.2	589.9	131.27	3.3269	0.615
13.25	786.0	591.7	131.31	3.2830	0.618
13.50	787.9	593.6	131.34	3.2407	0.621
13.75	789.8	595.6	131.35	3.2000	0.624
14.00	791.3	597.1	131.40	3.1607	0.626
14.25	793.3	599.0	131.43	3.1228	0.629
14.50	795.4	601.1	131.46	3.0862	0.633
14.75	796.9	602.6	131.49	3.0508	0.635
15.00	798.6	604.4	131.53	3.0167	0.638
15.25	800.7	606.5	131.55	2.9836	0.641
15.50	802.1	607.8	131.58	2.9516	0.643
15.75	803.3	609.1	131.61	2.9206	0.645
16.00	805.3	611.0	131.63	2.8906	0.648
16.25	808.4	614.1	131.65	2.8615	0.653
16.50	807.0	612.8	131.69	2.8333	0.651
16.75	810.7	616.4	131.71	2.8060	0.657
17.00	813.2	618.9	131.74	2.7794	0.661
17.25	817.0	622.7	131.76	2.7536	0.668
17.50	818.4	624.1	131.78	2.7286	0.670
17.75	817.8	623.5	131.81	2.7042	0.669
18.00	819.4	625.1	131.83	2.6806	0.671
18.25	817.7	623.4	131.85	2.6575	0.669
18.50	818.2	623.9	131.88	2.6351	0.669
18.75	822.1	627.9	131.90	2.6133	0.676
19.00	824.9	630.6	131.92	2.5921	0.680
19.25	827.9	633.7	131.94	2.5714	0.685
19.50	829.7	635.4	131.95	2.5513	0.688
19.75	830.5	636.2	131.98	2.5316	0.690
20.00	826.6	632.3	132.01	2.5125	0.683

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
20.25	831.0	636.7	132.02	2.4938	0.690
20.50	831.0	636.8	132.04	2.4756	0.691
20.75	833.6	639.4	132.06	2.4578	0.695
21.00	838.5	644.2	132.07	2.4405	0.703
21.25	842.1	647.8	132.10	2.4235	0.709
21.50	839.3	645.0	132.12	2.4070	0.704
21.75	837.8	643.6	132.12	2.3908	0.702
22.00	839.2	644.9	132.14	2.3750	0.704
22.25	837.6	643.3	132.16	2.3596	0.702
22.50	845.6	651.4	132.17	2.3444	0.715
22.75	847.2	653.0	132.19	2.3297	0.718
23.00	849.2	654.9	132.21	2.3152	0.721
23.25	852.1	657.8	132.23	2.3011	0.726
23.50	847.4	653.1	132.24	2.2872	0.718
23.75	851.3	657.0	132.26	2.2737	0.725
24.00	853.5	659.3	132.27	2.2604	0.729
24.25	849.3	655.0	132.29	2.2474	0.721
24.50	852.5	658.2	132.29	2.2347	0.727
24.75	854.4	660.1	132.31	2.2222	0.730
25.00	859.2	664.9	132.32	2.2100	0.738
25.25	866.5	672.3	132.33	2.1980	0.751
25.50	866.2	671.9	132.34	2.1863	0.750
25.75	854.0	659.7	132.36	2.1748	0.729
26.00	852.2	657.9	132.38	2.1635	0.726
26.25	854.9	660.6	132.39	2.1524	0.731
26.50	852.3	658.0	132.40	2.1415	0.726
26.75	852.0	657.7	132.41	2.1308	0.726
27.00	852.9	658.6	132.42	2.1204	0.727
27.25	858.9	664.6	132.43	2.1101	0.738
27.50	858.1	663.8	132.44	2.1000	0.736
27.75	854.2	659.9	132.45	2.0901	0.730
28.00	856.7	662.4	132.46	2.0804	0.734
28.25	857.2	662.9	132.48	2.0708	0.735
28.50	856.6	662.4	132.49	2.0614	0.734
28.75	857.5	663.2	132.50	2.0522	0.735
29.00	859.7	665.4	132.51	2.0431	0.739
29.25	864.2	669.9	132.52	2.0342	0.747
29.50	874.4	680.1	132.53	2.0254	0.764
29.75	866.4	672.1	132.54	2.0168	0.751
30.00	875.6	681.3	132.55	2.0083	0.767
30.25	866.8	672.5	132.55	2.0000	0.751
30.50	866.0	671.7	132.56	1.9918	0.750
30.75	866.8	672.5	132.57	1.9837	0.751
31.00	867.4	673.1	132.59	1.9758	0.752
31.25	872.3	678.0	132.58	1.9680	0.761
31.50	874.5	680.2	132.59	1.9603	0.765
31.75	884.2	689.9	132.59	1.9528	0.782
32.00	871.9	677.6	132.60	1.9453	0.760
32.25	876.0	681.7	132.62	1.9380	0.767
32.50	870.9	676.6	132.62	1.9308	0.758
32.75	872.4	678.1	132.63	1.9237	0.761

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
33.00	870.5	676.2	132.63	1.9167	0.758
33.25	873.4	679.1	132.64	1.9098	0.763
33.50	870.3	676.0	132.65	1.9030	0.757
33.75	870.7	676.5	132.66	1.8963	0.758
34.00	871.4	677.1	132.66	1.8897	0.759
34.25	872.4	678.1	132.67	1.8832	0.761
34.50	875.4	681.1	132.68	1.8768	0.766
34.75	887.8	693.5	132.67	1.8705	0.788
35.00	882.4	688.1	132.68	1.8643	0.779
35.25	878.2	683.9	132.70	1.8582	0.771
35.50	895.3	701.0	132.70	1.8521	0.802
35.75	877.7	683.4	132.71	1.8462	0.770
36.00	877.7	683.4	132.72	1.8403	0.770
36.25	878.0	683.7	132.72	1.8345	0.771
36.50	878.5	684.3	132.72	1.8288	0.772
36.75	879.3	685.0	132.73	1.8231	0.773
37.00	880.0	685.7	132.73	1.8176	0.774
37.25	880.8	686.5	132.74	1.8121	0.776
37.50	881.4	687.1	132.74	1.8067	0.777
37.75	882.2	687.9	132.76	1.8013	0.778
38.00	882.9	688.6	132.75	1.7961	0.780
38.25	883.7	689.4	132.77	1.7908	0.781
38.50	884.8	690.6	132.77	1.7857	0.783
38.75	885.8	691.6	132.77	1.7806	0.785
39.00	887.1	692.8	132.78	1.7756	0.787
39.25	888.5	694.2	132.78	1.7707	0.789
39.50	890.0	695.7	132.78	1.7658	0.792
39.75	891.3	697.0	132.78	1.7610	0.794
40.00	892.7	698.4	132.78	1.7563	0.797
40.25	895.0	700.7	132.80	1.7516	0.801
40.50	896.4	702.1	132.80	1.7469	0.804
40.75	902.1	707.8	132.81	1.7423	0.814
41.00	899.9	705.7	132.81	1.7378	0.810
41.25	900.5	706.2	132.82	1.7333	0.811
41.50	902.6	708.4	132.82	1.7289	0.815
41.75	904.0	709.7	132.82	1.7246	0.817
42.00	906.7	712.4	132.82	1.7202	0.822
42.25	906.9	712.6	132.83	1.7160	0.822
42.50	908.5	714.2	132.84	1.7118	0.825
42.75	913.1	718.8	132.85	1.7076	0.834
43.00	914.6	720.4	132.85	1.7035	0.837
43.25	919.0	724.7	132.86	1.6994	0.845
43.50	915.1	720.8	132.86	1.6954	0.837
43.75	916.9	722.6	132.86	1.6914	0.841
44.00	920.8	726.5	132.86	1.6875	0.848
44.25	919.5	725.2	132.86	1.6836	0.845
44.50	919.8	725.5	132.87	1.6798	0.846
44.75	921.1	726.8	132.87	1.6760	0.848
45.00	923.1	728.8	132.88	1.6722	0.852
45.25	924.5	730.3	132.89	1.6685	0.855
45.50	926.5	732.2	132.89	1.6648	0.858

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
45.75	927.9	733.6	132.89	1.6612	0.861
46.00	928.4	734.1	132.89	1.6576	0.862
46.25	934.5	740.2	132.89	1.6541	0.873
46.50	939.1	744.9	132.90	1.6505	0.882
46.75	937.5	743.2	132.91	1.6471	0.879
47.00	941.4	747.1	132.91	1.6436	0.886
47.25	940.2	746.0	132.91	1.6402	0.884
47.50	947.7	753.4	132.91	1.6368	0.898
47.75	947.5	753.2	132.91	1.6335	0.898
48.00	948.2	753.9	132.92	1.6302	0.899
48.25	936.6	742.3	132.92	1.6269	0.877
48.50	942.4	748.1	132.93	1.6237	0.888
48.75	945.3	751.0	132.93	1.6205	0.894
49.00	945.6	751.3	132.94	1.6173	0.894
49.25	949.9	755.6	132.94	1.6142	0.902
49.50	951.0	756.7	132.94	1.6111	0.904
49.75	949.4	755.1	132.94	1.6080	0.901
50.00	950.1	755.9	132.95	1.6050	0.903
50.25	950.1	755.8	132.94	1.6020	0.903
50.50	952.5	758.2	132.95	1.5990	0.907
50.75	956.5	762.2	132.95	1.5961	0.915
51.00	959.5	765.2	132.96	1.5931	0.921
51.25	963.6	769.3	132.96	1.5902	0.928
51.50	965.0	770.7	132.97	1.5874	0.931
51.75	968.4	774.2	132.96	1.5845	0.938
52.00	971.5	777.3	132.97	1.5817	0.944
52.25	963.6	769.3	132.98	1.5789	0.928
52.50	962.0	767.7	132.97	1.5762	0.925
52.75	962.8	768.5	132.98	1.5735	0.927
53.00	970.3	776.0	132.98	1.5708	0.941
53.25	972.8	778.5	132.98	1.5681	0.946
53.50	973.1	778.9	132.99	1.5654	0.947
53.75	974.3	780.0	132.99	1.5628	0.949
54.00	978.5	784.2	132.99	1.5602	0.957
54.25	968.5	774.2	133.00	1.5576	0.938
54.50	972.9	778.6	132.99	1.5550	0.947
54.75	974.0	779.7	133.00	1.5525	0.949
55.00	978.9	784.6	133.00	1.5500	0.958
55.25	981.1	786.8	133.00	1.5475	0.963
55.50	982.2	787.9	133.00	1.5450	0.965
55.75	984.2	789.9	133.01	1.5426	0.969
56.00	980.6	786.3	133.01	1.5402	0.962
56.25	985.5	791.2	133.01	1.5378	0.971
56.50	974.6	780.3	133.02	1.5354	0.950
56.75	982.0	787.7	133.02	1.5330	0.964
57.00	985.4	791.1	133.03	1.5307	0.971
57.25	981.4	787.2	133.02	1.5284	0.963
57.50	987.7	793.4	133.03	1.5261	0.975
57.75	990.0	795.7	133.03	1.5238	0.980
58.00	991.3	797.1	133.03	1.5216	0.983
58.25	992.4	798.1	133.04	1.5193	0.985

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	58.50	994.1	799.8	133.04	1.5171	0.988
	58.75	995.5	801.3	133.04	1.5149	0.991
	59.00	985.9	791.6	133.04	1.5127	0.972
	59.25	988.1	793.8	133.04	1.5105	0.976
	59.50	992.9	798.6	133.04	1.5084	0.986
	59.75	991.3	797.0	133.04	1.5063	0.983
***** End Shut-in 1	60.00	995.5	801.3	133.05	1.5042	0.991
***** Start Flow 2	0.00	202.7	0.0	133.01		
	0.25	202.0	-0.7	133.02		
	0.50	202.4	-0.3	133.01		
	0.75	203.1	0.4	133.00		
	1.00	204.0	1.3	132.99		
	1.25	204.9	2.2	132.99		
	1.50	205.8	3.1	132.98		
	1.75	206.6	3.9	132.97		
	2.00	207.4	4.7	132.97		
	2.25	208.6	5.9	132.96		
	2.50	209.5	6.8	132.95		
	2.75	210.3	7.6	132.94		
	3.00	211.2	8.5	132.94		
	3.25	212.0	9.3	132.92		
	3.50	212.7	10.1	132.92		
	3.75	213.6	10.9	132.91		
	4.00	214.3	11.7	132.91		
	4.25	215.1	12.4	132.90		
	4.50	215.9	13.2	132.89		
	4.75	216.7	14.0	132.89		
	5.00	217.4	14.7	132.88		
	5.25	218.2	15.5	132.87		
	5.50	219.0	16.3	132.87		
	5.75	219.6	17.0	132.87		
	6.00	220.6	17.9	132.86		
	6.25	221.4	18.7	132.86		
	6.50	222.1	19.5	132.85		
	6.75	222.7	20.1	132.85		
	7.00	223.4	20.7	132.84		
	7.25	224.1	21.4	132.85		
	7.50	224.8	22.1	132.84		
	7.75	225.3	22.7	132.84		
	8.00	225.9	23.2	132.83		
	8.25	226.6	23.9	132.84		
	8.50	227.1	24.4	132.84		
	8.75	227.8	25.1	132.83		
	9.00	228.4	25.7	132.84		
	9.25	228.9	26.3	132.84		
	9.50	229.6	26.9	132.83		
	9.75	230.3	27.6	132.83		
	10.00	231.0	28.3	132.84		
	10.25	231.6	29.0	132.84		
	10.50	232.2	29.5	132.85		
	10.75	233.0	30.3	132.84		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
11.00	233.9	31.2	132.85		
11.25	234.5	31.8	132.85		
11.50	235.2	32.5	132.86		
11.75	235.8	33.2	132.85		
12.00	236.5	33.8	132.86		
12.25	237.0	34.3	132.87		
12.50	237.8	35.1	132.88		
12.75	238.3	35.7	132.87		
13.00	238.9	36.2	132.88		
13.25	239.5	36.8	132.89		
13.50	240.0	37.3	132.89		
13.75	240.7	38.0	132.89		
14.00	241.3	38.6	132.90		
14.25	241.8	39.1	132.91		
14.50	242.4	39.7	132.92		
14.75	243.0	40.3	132.93		
15.00	243.6	41.0	132.94		
15.25	244.1	41.5	132.94		
15.50	244.7	42.0	132.95		
15.75	245.3	42.6	132.95		
16.00	245.8	43.1	132.96		
16.25	246.6	43.9	132.97		
16.50	247.3	44.6	132.98		
16.75	248.0	45.3	132.99		
17.00	248.5	45.8	132.99		
17.25	249.1	46.4	133.00		
17.50	249.7	47.0	133.01		
17.75	250.2	47.5	133.02		
18.00	250.9	48.2	133.02		
18.25	251.4	48.7	133.03		
18.50	251.8	49.1	133.04		
18.75	252.4	49.7	133.05		
19.00	252.9	50.2	133.06		
19.25	253.5	50.8	133.07		
19.50	254.0	51.4	133.08		
19.75	254.5	51.9	133.09		
20.00	255.0	52.4	133.10		
20.25	255.5	52.8	133.11		
20.50	256.1	53.5	133.12		
20.75	256.6	54.0	133.13		
21.00	257.1	54.4	133.14		
21.25	257.6	54.9	133.15		
21.50	258.2	55.5	133.16		
21.75	258.8	56.1	133.18		
22.00	259.2	56.6	133.18		
22.25	259.8	57.2	133.19		
22.50	260.3	57.7	133.20		
22.75	261.0	58.3	133.22		
23.00	261.5	58.8	133.22		
23.25	262.1	59.4	133.24		
23.50	262.6	59.9	133.25		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
23.75	263.0	60.3	133.26		
24.00	263.5	60.8	133.27		
24.25	264.1	61.4	133.28		
24.50	264.6	61.9	133.30		
24.75	265.1	62.4	133.30		
25.00	265.6	62.9	133.32		
25.25	266.0	63.3	133.33		
25.50	266.5	63.9	133.34		
25.75	267.0	64.4	133.35		
26.00	267.5	64.8	133.36		
26.25	267.9	65.2	133.37		
26.50	268.4	65.7	133.38		
26.75	268.8	66.1	133.39		
27.00	269.3	66.6	133.41		
27.25	269.7	67.1	133.42		
27.50	270.2	67.5	133.43		
27.75	270.6	67.9	133.44		
28.00	271.0	68.3	133.45		
28.25	271.5	68.8	133.46		
28.50	271.9	69.2	133.46		
28.75	272.4	69.7	133.48		
29.00	272.8	70.2	133.49		
29.25	273.2	70.5	133.49		
29.50	273.6	70.9	133.51		
29.75	274.1	71.4	133.52		
30.00	274.7	72.0	133.53		
30.25	275.3	72.6	133.54		
30.50	275.8	73.1	133.55		
30.75	276.2	73.5	133.56		
31.00	276.5	73.9	133.58		
31.25	277.0	74.3	133.58		
31.50	277.4	74.7	133.59		
31.75	277.8	75.1	133.60		
32.00	278.2	75.5	133.61		
32.25	278.7	76.0	133.63		
32.50	279.2	76.5	133.64		
32.75	279.6	77.0	133.64		
33.00	280.1	77.4	133.65		
33.25	280.5	77.8	133.67		
33.50	280.8	78.1	133.68		
33.75	281.3	78.6	133.68		
34.00	281.7	79.1	133.69		
34.25	282.2	79.5	133.70		
34.50	282.6	79.9	133.71		
34.75	283.0	80.3	133.73		
35.00	283.3	80.7	133.74		
35.25	283.8	81.2	133.75		
35.50	284.2	81.5	133.76		
35.75	284.6	81.9	133.77		
36.00	284.9	82.2	133.78		
36.25	285.3	82.7	133.80		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97 TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
36.50	285.8	83.1	133.81		
36.75	286.1	83.4	133.82		
37.00	286.5	83.8	133.83		
37.25	286.9	84.3	133.84		
37.50	287.2	84.5	133.85		
37.75	287.6	84.9	133.86		
38.00	288.1	85.4	133.87		
38.25	288.5	85.9	133.88		
38.50	289.0	86.4	133.90		
38.75	289.5	86.8	133.91		
39.00	290.0	87.3	133.92		
39.25	290.4	87.7	133.94		
39.50	290.8	88.1	133.95		
39.75	291.2	88.5	133.96		
40.00	291.6	88.9	133.97		
40.25	292.0	89.3	133.98		
40.50	292.4	89.7	133.99		
40.75	292.7	90.1	133.99		
41.00	293.2	90.5	134.01		
41.25	293.5	90.8	134.02		
41.50	293.9	91.2	134.03		
41.75	294.3	91.6	134.05		
42.00	294.7	92.0	134.05		
42.25	295.0	92.3	134.07		
42.50	295.4	92.7	134.08		
42.75	296.0	93.3	134.10		
43.00	296.3	93.7	134.11		
43.25	296.8	94.2	134.12		
43.50	297.1	94.4	134.15		
43.75	297.6	94.9	134.16		
44.00	297.9	95.3	134.17		
44.25	298.4	95.7	134.20		
44.50	298.7	96.0	134.21		
44.75	299.1	96.4	134.21		
45.00	299.4	96.8	134.23		
45.25	299.8	97.1	134.24		
45.50	300.0	97.4	134.26		
45.75	300.3	97.6	134.28		
46.00	300.7	98.0	134.29		
46.25	301.0	98.4	134.30		
46.50	301.4	98.7	134.33		
46.75	301.9	99.2	134.33		
47.00	302.5	99.8	134.35		
47.25	302.9	100.2	134.36		
47.50	303.2	100.5	134.38		
47.75	303.6	101.0	134.39		
48.00	304.1	101.5	134.40		
48.25	304.5	101.8	134.41		
48.50	304.9	102.2	134.42		
48.75	305.3	102.6	134.44		
49.00	305.7	103.1	134.44		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	49.25	306.2	103.5	134.45		
	49.50	306.5	103.8	134.46		
	49.75	306.9	104.2	134.47		
	50.00	307.2	104.5	134.48		
	50.25	307.6	104.9	134.49		
	50.50	307.9	105.2	134.50		
	50.75	308.3	105.6	134.51		
	51.00	308.7	106.0	134.52		
	51.25	309.0	106.3	134.52		
	51.50	309.3	106.7	134.54		
	51.75	309.7	107.0	134.54		
	52.00	310.0	107.3	134.56		
	52.25	310.4	107.7	134.56		
	52.50	310.7	108.0	134.57		
	52.75	311.0	108.4	134.57		
	53.00	311.4	108.8	134.58		
	53.25	311.8	109.1	134.59		
	53.50	312.0	109.4	134.59		
	53.75	312.5	109.8	134.60		
	54.00	312.8	110.1	134.61		
	54.25	313.2	110.5	134.61		
	54.50	313.5	110.9	134.62		
	54.75	313.8	111.1	134.63		
	55.00	314.2	111.5	134.64		
	55.25	314.6	111.9	134.64		
	55.50	314.9	112.2	134.66		
	55.75	315.3	112.6	134.66		
	56.00	315.6	112.9	134.67		
	56.25	316.0	113.3	134.68		
	56.50	316.4	113.7	134.68		
	56.75	316.8	114.1	134.69		
	57.00	317.2	114.5	134.70		
	57.25	317.5	114.8	134.70		
	57.50	317.8	115.1	134.71		
	57.75	318.1	115.4	134.71		
	58.00	318.4	115.7	134.72		
	58.25	318.8	116.2	134.73		
	58.50	319.2	116.5	134.73		
	58.75	319.5	116.8	134.74		
***** End Flow 2	59.00	319.8	117.2	134.75		
***** Start Shutin 2	0.00	319.8	0.0	134.75	0.0000	0.102
	0.25	323.8	3.9	134.76	358.0000	0.105
	0.50	401.7	81.8	134.77	179.5000	0.161
	0.75	445.0	125.1	134.77	120.0000	0.198
	1.00	475.2	155.4	134.78	90.2500	0.226
	1.25	498.4	178.6	134.79	72.4000	0.248
	1.50	516.9	197.1	134.80	60.5000	0.267
	1.75	531.6	211.7	134.81	52.0000	0.283
	2.00	543.7	223.8	134.82	45.6250	0.296
	2.25	553.7	233.9	134.83	40.6667	0.307
	2.50	562.1	242.3	134.84	36.7000	0.316

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
2.75	569.4	249.5	134.84	33.4545	0.324
3.00	575.7	255.8	134.85	30.7500	0.331
3.25	581.2	261.4	134.86	28.4615	0.338
3.50	586.1	266.2	134.87	26.5000	0.343
3.75	590.5	270.7	134.88	24.8000	0.349
4.00	594.5	274.7	134.90	23.3125	0.353
4.25	598.3	278.5	134.90	22.0000	0.358
4.50	601.8	281.9	134.93	20.8333	0.362
4.75	605.1	285.3	134.92	19.7895	0.366
5.00	608.1	288.3	134.93	18.8500	0.370
5.25	611.2	291.4	134.95	18.0000	0.374
5.50	614.3	294.4	134.95	17.2273	0.377
5.75	616.9	297.0	134.96	16.5217	0.381
6.00	619.3	299.5	134.97	15.8750	0.384
6.25	621.6	301.7	134.98	15.2800	0.386
6.50	623.7	303.9	134.99	14.7308	0.389
6.75	625.9	306.1	135.01	14.2222	0.392
7.00	628.1	308.3	135.01	13.7500	0.395
7.25	630.1	310.3	135.02	13.3103	0.397
7.50	632.6	312.7	135.05	12.9000	0.400
7.75	635.0	315.1	135.06	12.5161	0.403
8.00	637.8	318.0	135.08	12.1562	0.407
8.25	641.8	321.9	135.09	11.8182	0.412
8.50	646.0	326.1	135.11	11.5000	0.417
8.75	654.0	334.1	135.13	11.2000	0.428
9.00	664.4	344.6	135.15	10.9167	0.441
9.25	673.2	353.3	135.17	10.6486	0.453
9.50	678.9	359.0	135.19	10.3947	0.461
9.75	686.0	366.2	135.20	10.1538	0.471
10.00	691.1	371.2	135.22	9.9250	0.478
10.25	693.7	373.9	135.24	9.7073	0.481
10.50	699.6	379.8	135.25	9.5000	0.489
10.75	704.2	384.4	135.26	9.3023	0.496
11.00	710.6	390.8	135.27	9.1136	0.505
11.25	715.1	395.2	135.29	8.9333	0.511
11.50	721.1	401.3	135.30	8.7609	0.520
11.75	726.1	406.2	135.31	8.5957	0.527
12.00	727.1	407.2	135.33	8.4375	0.529
12.25	732.0	412.2	135.34	8.2857	0.536
12.50	733.0	413.2	135.35	8.1400	0.537
12.75	739.2	419.4	135.36	8.0000	0.546
13.00	743.0	423.2	135.37	7.8654	0.552
13.25	744.9	425.0	135.39	7.7358	0.555
13.50	749.5	429.6	135.40	7.6111	0.562
13.75	752.5	432.6	135.41	7.4909	0.566
14.00	731.3	411.4	135.42	7.3750	0.535
14.25	739.2	419.4	135.42	7.2632	0.546
14.50	748.0	428.1	135.43	7.1552	0.559
14.75	726.6	406.8	135.44	7.0508	0.528
15.00	733.3	413.4	135.44	6.9500	0.538
15.25	732.1	412.3	135.45	6.8525	0.536

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
15.50	734.5	414.7	135.45	6.7581	0.540
15.75	733.9	414.1	135.46	6.6667	0.539
16.00	734.9	415.1	135.46	6.5781	0.540
16.25	740.7	420.9	135.47	6.4923	0.549
16.50	751.3	431.5	135.47	6.4091	0.564
16.75	758.2	438.4	135.49	6.3284	0.575
17.00	762.7	442.9	135.49	6.2500	0.582
17.25	768.2	448.3	135.49	6.1739	0.590
17.50	772.5	452.7	135.50	6.1000	0.597
17.75	778.5	458.7	135.51	6.0282	0.606
18.00	782.8	462.9	135.51	5.9583	0.613
18.25	788.0	468.1	135.51	5.8904	0.621
18.50	791.3	471.5	135.52	5.8243	0.626
18.75	794.4	474.5	135.52	5.7600	0.631
19.00	798.0	478.1	135.52	5.6974	0.637
19.25	801.8	482.0	135.53	5.6364	0.643
19.50	804.4	484.6	135.54	5.5769	0.647
19.75	806.5	486.6	135.54	5.5190	0.650
20.00	808.6	488.7	135.54	5.4625	0.654
20.25	811.2	491.3	135.55	5.4074	0.658
20.50	813.4	493.6	135.55	5.3537	0.662
20.75	815.9	496.1	135.55	5.3012	0.666
21.00	817.4	497.5	135.56	5.2500	0.668
21.25	820.5	500.6	135.55	5.2000	0.673
21.50	822.8	503.0	135.57	5.1512	0.677
21.75	824.6	504.7	135.57	5.1034	0.680
22.00	827.9	508.1	135.57	5.0568	0.685
22.25	826.2	506.3	135.57	5.0112	0.683
22.50	831.4	511.5	135.58	4.9667	0.691
22.75	833.9	514.1	135.58	4.9231	0.695
23.00	833.1	513.2	135.58	4.8804	0.694
23.25	836.0	516.2	135.58	4.8387	0.699
23.50	837.9	518.1	135.59	4.7979	0.702
23.75	839.8	519.9	135.58	4.7579	0.705
24.00	842.0	522.1	135.59	4.7188	0.709
24.25	842.0	522.1	135.59	4.6804	0.709
24.50	844.2	524.4	135.60	4.6429	0.713
24.75	846.2	526.3	135.60	4.6061	0.716
25.00	847.2	527.3	135.60	4.5700	0.718
25.25	849.6	529.8	135.60	4.5347	0.722
25.50	851.0	531.2	135.61	4.5000	0.724
25.75	853.0	533.2	135.61	4.4660	0.728
26.00	849.9	530.1	135.61	4.4327	0.722
26.25	852.3	532.4	135.62	4.4000	0.726
26.50	854.5	534.6	135.61	4.3679	0.730
26.75	855.7	535.9	135.61	4.3364	0.732
27.00	856.6	536.8	135.63	4.3056	0.734
27.25	859.4	539.6	135.61	4.2752	0.739
27.50	861.1	541.3	135.62	4.2455	0.741
27.75	862.8	542.9	135.62	4.2162	0.744
28.00	858.7	538.8	135.62	4.1875	0.737

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97 TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
28.25	858.9	539.1	135.63	4.1593	0.738
28.50	861.1	541.3	135.63	4.1316	0.741
28.75	864.3	544.4	135.62	4.1043	0.747
29.00	865.8	546.0	135.62	4.0776	0.750
29.25	857.6	537.7	135.60	4.0513	0.735
29.50	863.8	543.9	135.63	4.0254	0.746
29.75	863.5	543.7	135.61	4.0000	0.746
30.00	866.9	547.0	135.61	3.9750	0.751
30.25	869.2	549.4	135.62	3.9504	0.756
30.50	866.5	546.7	135.61	3.9262	0.751
30.75	871.7	551.9	135.62	3.9024	0.760
31.00	873.1	553.3	135.61	3.8790	0.762
31.25	874.7	554.8	135.61	3.8560	0.765
31.50	875.7	555.9	135.60	3.8333	0.767
31.75	870.7	550.9	135.60	3.8110	0.758
32.00	875.6	555.8	135.60	3.7891	0.767
32.25	871.4	551.6	135.60	3.7674	0.759
32.50	876.2	556.4	135.60	3.7462	0.768
32.75	879.1	559.2	135.60	3.7252	0.773
33.00	880.1	560.2	135.60	3.7045	0.775
33.25	879.8	560.0	135.59	3.6842	0.774
33.50	881.2	561.4	135.59	3.6642	0.777
33.75	883.4	563.6	135.59	3.6444	0.780
34.00	884.6	564.8	135.60	3.6250	0.783
34.25	886.4	566.5	135.59	3.6058	0.786
34.50	886.6	566.8	135.60	3.5870	0.786
34.75	889.0	569.2	135.58	3.5683	0.790
35.00	890.4	570.5	135.58	3.5500	0.793
35.25	876.0	556.2	135.58	3.5319	0.767
35.50	881.8	562.0	135.58	3.5141	0.778
35.75	886.9	567.0	135.58	3.4965	0.787
36.00	890.0	570.2	135.58	3.4792	0.792
36.25	892.2	572.4	135.57	3.4621	0.796
36.50	893.7	573.8	135.57	3.4452	0.799
36.75	895.4	575.6	135.64	3.4286	0.802
37.00	896.8	576.9	135.56	3.4122	0.804
37.25	886.4	566.6	135.57	3.3960	0.786
37.50	881.6	561.7	135.57	3.3800	0.777
37.75	887.2	567.4	135.56	3.3642	0.787
38.00	891.6	571.7	135.56	3.3487	0.795
38.25	895.1	575.2	135.56	3.3333	0.801
38.50	897.5	577.7	135.56	3.3182	0.806
38.75	899.0	579.2	135.56	3.3032	0.808
39.00	900.7	580.9	135.56	3.2885	0.811
39.25	902.6	582.8	135.55	3.2739	0.815
39.50	904.4	584.6	135.56	3.2595	0.818
39.75	905.8	586.0	135.55	3.2453	0.821
40.00	907.3	587.4	135.55	3.2313	0.823
40.25	908.6	588.8	135.55	3.2174	0.826
40.50	909.7	589.8	135.55	3.2037	0.828
40.75	910.9	591.0	135.54	3.1902	0.830

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
41.00	912.0	592.2	135.54	3.1768	0.832
41.25	913.0	593.2	135.54	3.1636	0.834
41.50	914.0	594.2	135.55	3.1506	0.835
41.75	914.9	595.0	135.54	3.1377	0.837
42.00	915.8	596.0	135.54	3.1250	0.839
42.25	916.7	596.9	135.54	3.1124	0.840
42.50	917.5	597.7	135.53	3.1000	0.842
42.75	918.4	598.6	135.54	3.0877	0.843
43.00	919.3	599.5	135.54	3.0756	0.845
43.25	920.2	600.3	135.53	3.0636	0.847
43.50	921.0	601.2	135.53	3.0517	0.848
43.75	921.8	601.9	135.54	3.0400	0.850
44.00	921.6	601.8	135.54	3.0284	0.849
44.25	922.8	602.9	135.53	3.0169	0.852
44.50	923.6	603.8	135.52	3.0056	0.853
44.75	924.3	604.4	135.53	2.9944	0.854
45.00	924.9	605.0	135.52	2.9833	0.855
45.25	925.5	605.6	135.53	2.9724	0.856
45.50	924.9	605.0	135.52	2.9615	0.855
45.75	925.5	605.6	135.52	2.9508	0.856
46.00	926.6	606.8	135.52	2.9402	0.859
46.25	927.6	607.8	135.52	2.9297	0.861
46.50	928.5	608.6	135.52	2.9194	0.862
46.75	929.2	609.4	135.52	2.9091	0.863
47.00	930.0	610.2	135.52	2.8989	0.865
47.25	930.7	610.8	135.52	2.8889	0.866
47.50	931.3	611.4	135.52	2.8789	0.867
47.75	932.1	612.3	135.50	2.8691	0.869
48.00	932.7	612.8	135.51	2.8594	0.870
48.25	933.4	613.5	135.50	2.8497	0.871
48.50	933.9	614.0	135.50	2.8402	0.872
48.75	934.3	614.4	135.50	2.8308	0.873
49.00	934.8	614.9	135.50	2.8214	0.874
49.25	935.4	615.5	135.50	2.8122	0.875
49.50	935.9	616.0	135.51	2.8030	0.876
49.75	936.4	616.5	135.49	2.7940	0.877
50.00	936.8	617.0	135.49	2.7850	0.878
50.25	937.1	617.3	135.49	2.7761	0.878
50.50	937.5	617.6	135.49	2.7673	0.879
50.75	938.0	618.1	135.49	2.7586	0.880
51.00	938.8	619.0	135.49	2.7500	0.881
51.25	939.2	619.4	135.49	2.7415	0.882
51.50	939.8	619.9	135.49	2.7330	0.883
51.75	939.8	619.9	135.50	2.7246	0.883
52.00	939.8	619.9	135.49	2.7163	0.883
52.25	940.2	620.3	135.48	2.7081	0.884
52.50	940.5	620.6	135.49	2.7000	0.885
52.75	941.0	621.1	135.48	2.6919	0.885
53.00	941.6	621.7	135.47	2.6840	0.887
53.25	942.0	622.2	135.48	2.6761	0.887
53.50	942.2	622.3	135.49	2.6682	0.888

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97 TIME: 15:27:45

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
53.75	942.0	622.2	135.49	2.6605	0.887
54.00	942.0	622.2	135.48	2.6528	0.887
54.25	942.7	622.8	135.49	2.6452	0.889
54.50	943.0	623.2	135.48	2.6376	0.889
54.75	943.5	623.7	135.47	2.6301	0.890
55.00	943.9	624.1	135.47	2.6227	0.891
55.25	944.3	624.5	135.47	2.6154	0.892
55.50	944.3	624.4	135.48	2.6081	0.892
55.75	946.3	626.4	135.47	2.6009	0.895
56.00	946.6	626.8	135.48	2.5938	0.896
56.25	945.8	625.9	135.47	2.5867	0.894
56.50	945.9	626.1	135.47	2.5796	0.895
56.75	947.1	627.3	135.46	2.5727	0.897
57.00	947.6	627.8	135.46	2.5658	0.898
57.25	948.3	628.5	135.46	2.5590	0.899
57.50	948.5	628.7	135.45	2.5522	0.900
57.75	948.9	629.0	135.46	2.5455	0.900
58.00	949.7	629.9	135.45	2.5388	0.902
58.25	950.1	630.2	135.45	2.5322	0.903
58.50	950.6	630.7	135.45	2.5256	0.904
58.75	951.0	631.1	135.46	2.5191	0.904
59.00	951.6	631.7	135.46	2.5127	0.905
59.25	952.1	632.2	135.45	2.5063	0.906
59.50	951.8	632.0	135.45	2.5000	0.906
59.75	952.0	632.1	135.45	2.4937	0.906
60.00	952.5	632.6	135.45	2.4875	0.907
60.25	952.9	633.1	135.45	2.4813	0.908
60.50	953.2	633.3	135.45	2.4752	0.909
60.75	953.4	633.6	135.45	2.4691	0.909
61.00	953.7	633.8	135.44	2.4631	0.909
61.25	953.9	634.1	135.45	2.4571	0.910
61.50	954.3	634.4	135.44	2.4512	0.911
61.75	954.7	634.8	135.43	2.4453	0.911
62.00	955.0	635.2	135.44	2.4395	0.912
62.25	955.3	635.5	135.44	2.4337	0.913
62.50	955.8	635.9	135.43	2.4280	0.913
62.75	956.0	636.2	135.43	2.4223	0.914
63.00	956.4	636.6	135.44	2.4167	0.915
63.25	956.8	636.9	135.44	2.4111	0.915
63.50	957.3	637.4	135.44	2.4055	0.916
63.75	957.5	637.7	135.41	2.4000	0.917
64.00	957.9	638.1	135.42	2.3945	0.918
64.25	958.2	638.4	135.42	2.3891	0.918
64.50	958.5	638.7	135.42	2.3837	0.919
64.75	958.8	638.9	135.42	2.3784	0.919
65.00	959.2	639.4	135.42	2.3731	0.920
65.25	959.5	639.7	135.42	2.3678	0.921
65.50	959.9	640.0	135.41	2.3626	0.921
65.75	960.3	640.5	135.42	2.3574	0.922
66.00	960.5	640.7	135.40	2.3523	0.923
66.25	960.9	641.0	135.42	2.3472	0.923

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
66.50	961.2	641.4	135.42	2.3421	0.924
66.75	961.6	641.7	135.41	2.3371	0.925
67.00	962.0	642.1	135.40	2.3321	0.925
67.25	962.2	642.4	135.41	2.3271	0.926
67.50	962.4	642.6	135.41	2.3222	0.926
67.75	962.6	642.8	135.40	2.3173	0.927
68.00	962.8	643.0	135.40	2.3125	0.927
68.25	963.1	643.3	135.40	2.3077	0.928
68.50	963.4	643.6	135.40	2.3029	0.928
68.75	963.7	643.8	135.40	2.2982	0.929
69.00	963.9	644.1	135.40	2.2935	0.929
69.25	964.2	644.3	135.40	2.2888	0.930
69.50	964.4	644.6	135.39	2.2842	0.930
69.75	964.7	644.8	135.40	2.2796	0.931
70.00	964.9	645.1	135.39	2.2750	0.931
70.25	965.2	645.3	135.39	2.2705	0.932
70.50	965.4	645.6	135.39	2.2660	0.932
70.75	965.6	645.7	135.39	2.2615	0.932
71.00	965.9	646.1	135.39	2.2570	0.933
71.25	966.2	646.3	135.38	2.2526	0.933
71.50	966.4	646.6	135.38	2.2483	0.934
71.75	966.6	646.7	135.39	2.2439	0.934
72.00	966.9	647.1	135.38	2.2396	0.935
72.25	967.0	647.2	135.38	2.2353	0.935
72.50	967.3	647.4	135.37	2.2310	0.936
72.75	967.5	647.7	135.37	2.2268	0.936
73.00	967.8	647.9	135.38	2.2226	0.937
73.25	967.9	648.1	135.38	2.2184	0.937
73.50	968.0	648.2	135.38	2.2143	0.937
73.75	968.4	648.5	135.38	2.2102	0.938
74.00	968.5	648.7	135.38	2.2061	0.938
74.25	968.9	649.0	135.37	2.2020	0.939
74.50	969.1	649.3	135.37	2.1980	0.939
74.75	969.4	649.6	135.37	2.1940	0.940
75.00	969.5	649.7	135.37	2.1900	0.940
75.25	969.6	649.8	135.36	2.1860	0.940
75.50	969.8	649.9	135.37	2.1821	0.940
75.75	970.0	650.2	135.37	2.1782	0.941
76.00	970.4	650.5	135.36	2.1743	0.942
76.25	970.6	650.8	135.36	2.1705	0.942
76.50	970.9	651.0	135.36	2.1667	0.943
76.75	971.1	651.3	135.36	2.1629	0.943
77.00	971.3	651.4	135.36	2.1591	0.943
77.25	971.5	651.7	135.36	2.1553	0.944
77.50	971.7	651.9	135.36	2.1516	0.944
77.75	971.9	652.0	135.35	2.1479	0.945
78.00	972.1	652.3	135.35	2.1442	0.945
78.25	972.5	652.6	135.35	2.1406	0.946
78.50	972.7	652.9	135.35	2.1369	0.946
78.75	972.9	653.0	135.36	2.1333	0.947
79.00	973.1	653.3	135.35	2.1297	0.947

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9640 DST #2 Bertrand #1-11 McCoy Petro.

DATE: 03/11/97

TIME: 15:27:45

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
79.25	973.4	653.5	135.35	2.1262	0.947
79.50	973.6	653.8	135.35	2.1226	0.948
79.75	973.9	654.0	135.34	2.1191	0.948
80.00	974.1	654.2	135.34	2.1156	0.949
80.25	974.3	654.5	135.34	2.1121	0.949
80.50	974.5	654.6	135.34	2.1087	0.950
80.75	974.7	654.9	135.34	2.1053	0.950
81.00	975.0	655.1	135.33	2.1019	0.951
81.25	975.1	655.3	135.34	2.0985	0.951
81.50	975.3	655.5	135.33	2.0951	0.951
81.75	975.6	655.7	135.33	2.0917	0.952
82.00	975.8	656.0	135.34	2.0884	0.952
82.25	976.0	656.1	135.33	2.0851	0.953
82.50	976.2	656.4	135.32	2.0818	0.953
82.75	976.4	656.6	135.33	2.0785	0.953
83.00	976.6	656.7	135.33	2.0753	0.954
83.25	976.7	656.9	135.31	2.0721	0.954
83.50	976.9	657.1	135.32	2.0689	0.954
83.75	977.2	657.4	135.33	2.0657	0.955
84.00	977.5	657.7	135.32	2.0625	0.956
84.25	977.7	657.8	135.32	2.0593	0.956
84.50	977.8	658.0	135.32	2.0562	0.956
84.75	977.9	658.1	135.31	2.0531	0.956
85.00	978.2	658.3	135.31	2.0500	0.957
85.25	978.3	658.4	135.31	2.0469	0.957
85.50	978.5	658.7	135.31	2.0439	0.957
85.75	978.8	658.9	135.31	2.0408	0.958
86.00	978.9	659.1	135.32	2.0378	0.958
86.25	979.2	659.3	135.30	2.0348	0.959
86.50	979.4	659.6	135.30	2.0318	0.959
86.75	979.5	659.7	135.30	2.0288	0.959
87.00	979.7	659.8	135.30	2.0259	0.960
87.25	979.8	660.0	135.30	2.0229	0.960
87.50	979.8	660.0	135.30	2.0200	0.960
87.75	980.0	660.2	135.30	2.0171	0.960
88.00	980.1	660.3	135.30	2.0142	0.961
88.25	980.3	660.4	135.30	2.0113	0.961
88.50	980.4	660.6	135.30	2.0085	0.961
88.75	980.6	660.8	135.29	2.0056	0.962
89.00	980.8	660.9	135.30	2.0028	0.962
89.25	980.9	661.0	135.29	2.0000	0.962
89.50	981.0	661.2	135.30	1.9972	0.962
89.75	981.1	661.3	135.30	1.9944	0.963
90.00	981.3	661.4	135.29	1.9917	0.963
90.25	981.6	661.8	135.28	1.9889	0.964
90.50	981.7	661.9	135.28	1.9862	0.964
***** End Shut-in 2					
***** Final Hydro.	391.50	2215.5	0.0	135.34	

9640 DST #2 Bertrand #1-11 McCoy Petro.

TEST HISTORY

Flag Points

t (Min.)	P (PSig)
A: 0.00	2317.74
B: 0.00	44.72
C: 30.25	194.28
D: 60.00	995.54
E: 0.00	202.68
F: 59.00	319.84
G: 90.50	981.70
Q: 0.00	2215.52

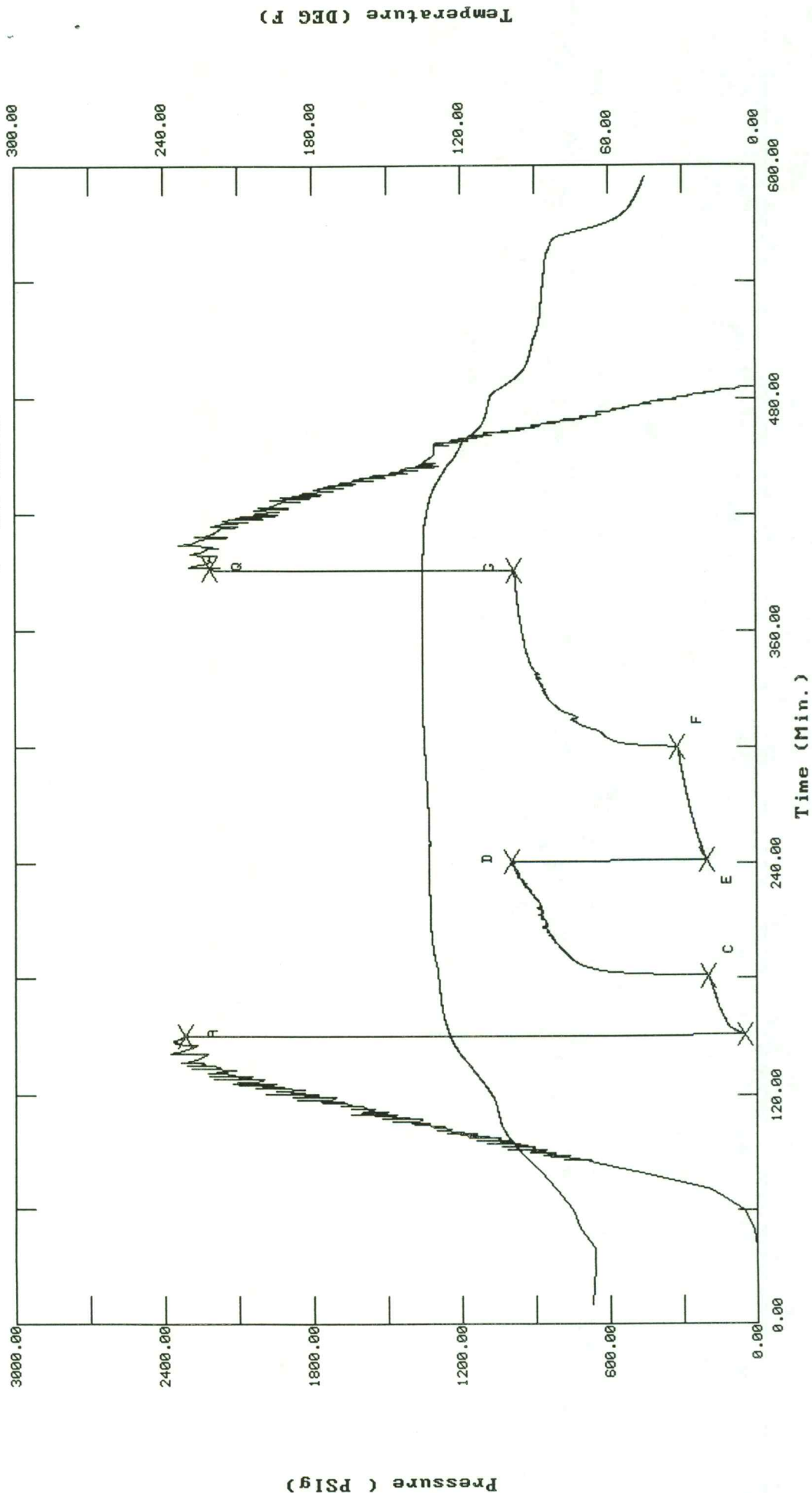
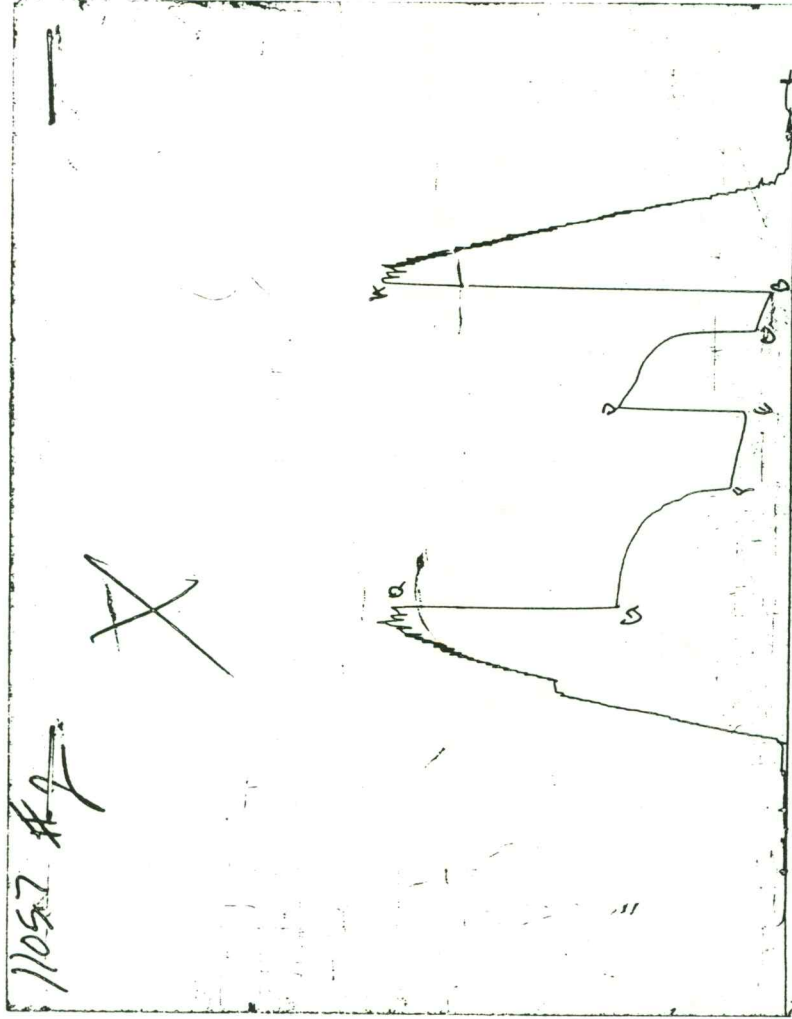
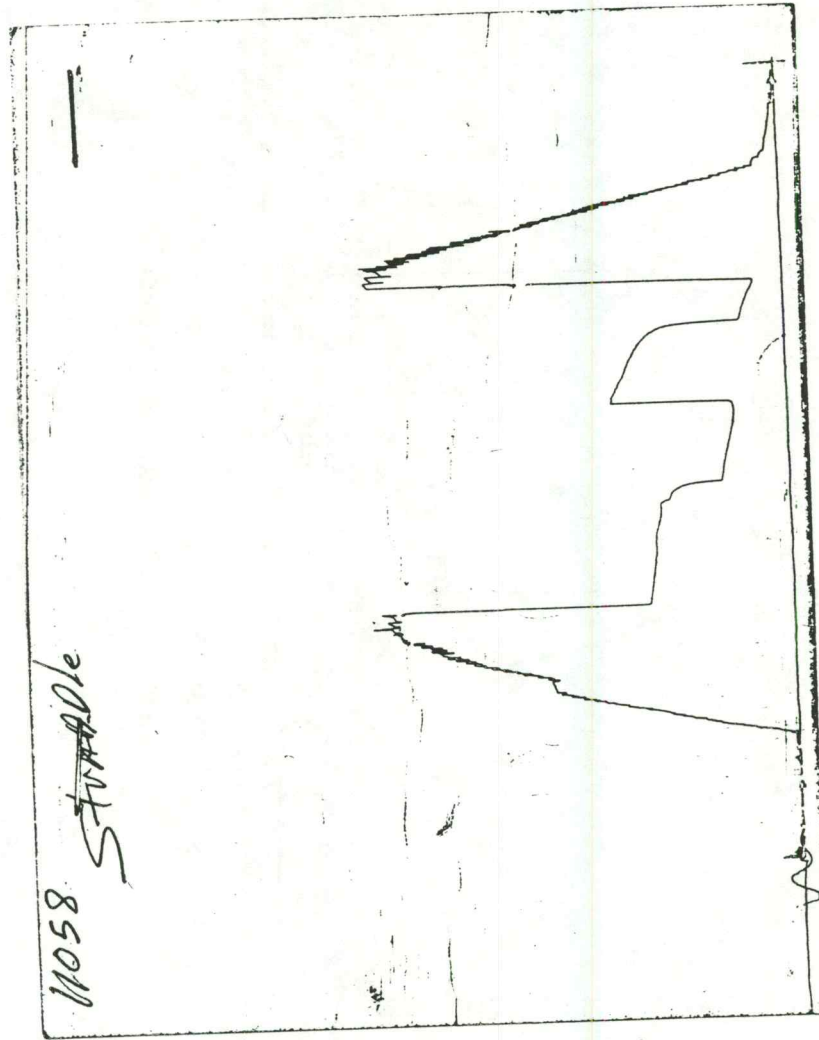


CHART PAGE



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

CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 9641

Well Name & No.	Bertrand "A" #1-11	Test No.	2	Date	3-11-97
Company	McCox Petroleum	Zone Tested	Johnson		
Address	3017 N Cypress Wichita, KS 67226	Elevation	3190' KB 3180' GL		
Co. Rep / Geo.	John Hastings	Cont.	Sweetman #2	Est. Ft. of Pay	Por. %
Location: Sec.	11	Twp.	11	Rge.	34
		Co.	Logan	State	KS
No. of Copies	Norm Distribution Sheet (Y, N)	Y	Turnkey (Y, N)		Evaluation (Y, N)

Interval Tested	4634	4687	Initial Str Wt./Lbs.	68000	Unseated Str Wt./Lbs.	71000			
Anchor Length		53'	Wt. Set Lbs.	32000	Wt. Pulled Loose/Lbs.	78000			
Top Packer Depth		4629'	Tool Weight	6000					
Bottom Packer Depth		4687'	Hole Size — 7 7/8"	✓	Rubber Size — 6 3/4"	✓			
Total Depth		4788'	Wt. Pipe Run	—	Drill Collar Run	252'			
Mud Wt.	9.3+ LCM	Vis.	51	WL	10.4	Drill Pipe Size	4 1/2 XH	Ft. Run	4500'
Blow Description	B.O.B. in 13 min								

ISF: No return

FP: weak surface blow built to 6 1/2" in.

FS: No return

Recovery — Total Feet	700'	GIP	—	Ft. in DC	176	Ft. in DP	524
Rec.	200'	Feet Of	Dry mud	%gas	%oil	%water	100% mud
Rec.	500'	Feet Of	water	%gas	%oil	100% water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud

BHT 135° °F Gravity — °API D@ — °F Corrected Gravity — °API

RW .178 @ 71 °F Chlorides 39000 ppm Recovery Chlorides 5000 ppm System

(A) Initial Hydrostatic Mud	2377	2331	PSI	Recorder No.	2342	T-Started	15:24 P.M.
(B) First Initial Flow Pressure	112	44	PSI	(depth)	4647'	T-Open	17:55 P.M.
(C) First Final Flow Pressure	201	194	PSI	Recorder No.	11057	T-Pulled	21:55 P.M.
(D) Initial Shut-in Pressure	995	995	PSI	(depth)	4678'	T-Out	01:30 AM.
(E) Second Initial Flow Pressure	269	202	PSI	Recorder No.	11058		
(F) Second Final Flow Pressure	347	319	PSI	(depth)	4785'		
(G) Final Shut-in Pressure	995	981	PSI	Initial Opening	30	Test X	500
(H) Final Hydrostatic Mud	2355	2215	PSI	Initial Shut-in	60	Jars	

AR-1 AHP, WL

Final Flow 60 Safety Joint Y 50

Final Shut-in 90 Straddle X 250

Straddle Packed Circ. Sub X N/C

Sampler

Extra Packer X 150

Elect. Rec X 150

Other

TOTAL PRICE \$ 1100

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By 

Our Representative 