

WELL NAME: Patterson # 1
COMPANY: Canyon Exploration Company
LOCATION: 17-31S-31W
Seward County Kansas
DATE: 11/05/97

TRILOBITE TESTING L.L.C.

OPERATOR : Canyon Exploration Co. DATE 11-3-97
 WELL NAME: Patterson #1 KB 2834.00 ft TICKET NO: 9806 DST #1
 LOCATION : 17-31S-31W Seward Co KS GR 2839.00 ft FORMATION: Morrow
 INTERVAL : 5400.00 To 5490.00 ft TD 5490.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	1055	1055	3025			PF Fr. 2125 to 2155 hr
SI 60 Range(Psi)	4050.0	4050.0	4995.0	0.0	0.0	IS Fr. 2155 to 2255 hr
SF 60 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 2255 to 2355 hr
FS 120 Depth(ft)	5490.0	5490.0	5403.0	0.0	0.0	FS Fr. 2355 to 0155 hr

	Field	1	2	3	4	
A. Init Hydro	2798.0	2759.0	2732.0	0.0	0.0	T STARTED 1920 hr
B. First Flow	65.0	90.0	25.0	0.0	0.0	T ON BOTM 2120 hr
B1. Final Flow	65.0	67.0	24.0	0.0	0.0	T OPEN 2125 hr
C. In Shut-in	76.0	91.0	36.0	0.0	0.0	T PULLED 0155 hr
D. Init Flow	65.0	84.0	30.0	0.0	0.0	T OUT 0420 hr
E. Final Flow	65.0	84.0	27.0	0.0	0.0	
F. Fl Shut-in	76.0	86.0	48.0	0.0	0.0	
G. Final Hydro	2696.0	2327.0	2546.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 1800.00 lbs
						Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 92000.00 lbs
						Initial Str Wt 55000.00 lbs
						Unseated Str Wt 58000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 0.00 in
						D. Pipe ID 3.68 in
						D.C. Length 0.00 ft
						D.P. Length 5388.00 ft

RECOVERY

Tot Fluid 10.00 ft of 0.00 ft in DC and 10.00 ft in DP
 10.00 ft of Drilling Mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow, bottom of bucket in 3 min
 No gas to surface

Initial Shut In:

Blow back built to 5 1/2" in bucket

Final Flow:

Fair blow, bottom of bucket in 54 mins

Final Shut In:

Blow back, built to bottom of bucket
 in 96 minutes

SAMPLES: none

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	49.00 S/L
W.L.	6.40 in3
F.C.	2.00 in
Mud Drop Y	10.0 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. Paul Godowic
 Contr. Val Energy
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Patterson #1

LOCATION : 17-31S-31W Seward Co KS

TICKET No. 9806 D.S.T. No. 1 DATE 11-3-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL 61

BOTTOM PACKERS AND ANCHOR 29

TOTAL TOOL 121

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 121

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands87 Single Total 5388

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5509

TOTAL DEPTH 5490

TOTAL DRILL PIPE ABOVE K.B. 19

REMARKS:
Sampler Data

75psi

4000 ml 100% Drilling Mud

P.O. SUB Top of tool		5369
C.O. SUB C.O.	1FT	5370
S.I. TOOL Sterling	5FT	5375
Bowen sampler 3FT		5378
HMV Sterling	5FT	5383
JARS Sterling	5FT	5388
SAFETY JOINT Bowen	3FT	5391
PACKER Streling	5FT	5396
PACKER Sterling	5FT	5400
DEPTH 5400		
STUBB	1FT	5401
ANCHOR perf	1FT	5402
Alpine Rec. @ 5403		
T.C.		
DEPTH		
PUS	5FT	5407
perf	15FT	5422
C.O.	1FT	5423
DP.	61FT	5484
C.O.	1FT	5485
BULLNOSE AK-1 Rec. @ 5490		
T.D. BP.	5FT	5490

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	129.00	2732.1	0.0	107.94		
***** Start Flow 1	0.00	25.1	0.0	107.90		
	0.25	25.0	-0.2	107.98		
	0.50	22.2	-2.9	108.13		
	0.75	25.1	0.0	108.36		
	1.00	24.4	-0.7	108.65		
	1.25	23.4	-1.7	109.00		
	1.50	26.1	0.9	109.37		
	1.75	24.2	-0.9	109.78		
	2.00	21.3	-3.8	110.18		
	2.25	24.9	-0.2	110.57		
	2.50	23.0	-2.1	110.94		
	2.75	21.2	-3.9	111.29		
	3.00	24.1	-1.0	111.62		
	3.25	22.2	-2.9	111.91		
	3.50	21.0	-4.1	112.18		
	3.75	22.7	-2.4	112.42		
	4.00	20.8	-4.3	112.65		
	4.25	22.9	-2.2	112.84		
	4.50	20.3	-4.8	113.01		
	4.75	19.8	-5.3	113.17		
	5.00	21.2	-3.9	113.31		
	5.25	22.6	-2.6	113.43		
	5.50	20.4	-4.7	113.55		
	5.75	22.0	-3.1	113.65		
	6.00	20.5	-4.6	113.75		
	6.25	22.0	-3.1	113.83		
	6.50	19.2	-5.9	113.91		
	6.75	21.7	-3.4	113.98		
	7.00	19.1	-6.0	114.04		
	7.25	21.2	-3.9	114.10		
	7.50	19.4	-5.7	114.15		
	7.75	20.8	-4.3	114.19		
	8.00	19.3	-5.8	114.24		
	8.25	21.0	-4.1	114.28		
	8.50	19.0	-6.1	114.32		
	8.75	20.7	-4.5	114.36		
	9.00	19.0	-6.1	114.39		
	9.25	20.6	-4.5	114.42		
	9.50	18.2	-6.9	114.45		
	9.75	20.2	-4.9	114.48		
	10.00	21.4	-3.7	114.50		
	10.25	20.0	-5.1	114.52		
	10.50	18.7	-6.4	114.55		
	10.75	20.4	-4.7	114.57		
	11.00	18.1	-7.0	114.58		
	11.25	20.0	-5.2	114.60		
	11.50	19.0	-6.1	114.62		
	11.75	19.5	-5.6	114.64		
	12.00	20.8	-4.3	114.66		
	12.25	19.3	-5.8	114.67		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
12.50	20.7	-4.5	114.69		
12.75	19.0	-6.1	114.70		
13.00	20.3	-4.8	114.72		
13.25	18.8	-6.3	114.73		
13.50	20.1	-5.0	114.74		
13.75	18.1	-7.0	114.76		
14.00	19.6	-5.5	114.77		
14.25	20.8	-4.3	114.79		
14.50	19.2	-5.9	114.80		
14.75	19.8	-5.3	114.82		
15.00	18.9	-6.2	114.83		
15.25	20.2	-4.9	114.85		
15.50	17.7	-7.4	114.86		
15.75	19.5	-5.7	114.87		
16.00	18.3	-6.8	114.88		
16.25	19.2	-5.9	114.90		
16.50	17.7	-7.5	114.91		
16.75	19.1	-6.0	114.93		
17.00	20.3	-4.8	114.93		
17.25	17.7	-7.4	114.95		
17.50	19.3	-5.8	114.96		
17.75	17.8	-7.3	114.97		
18.00	19.2	-5.9	114.98		
18.25	18.3	-6.8	115.00		
18.50	19.5	-5.6	115.01		
18.75	18.6	-6.5	115.02		
19.00	18.2	-6.9	115.04		
19.25	18.9	-6.2	115.05		
19.50	20.2	-4.9	115.06		
19.75	18.3	-6.8	115.07		
20.00	17.4	-7.7	115.09		
20.25	18.8	-6.3	115.10		
20.50	17.2	-7.9	115.11		
20.75	18.7	-6.4	115.13		
21.00	17.3	-7.8	115.14		
21.25	18.7	-6.4	115.15		
21.50	20.0	-5.1	115.17		
21.75	18.4	-6.7	115.18		
22.00	18.1	-7.0	115.19		
22.25	18.8	-6.3	115.21		
22.50	17.7	-7.5	115.22		
22.75	19.3	-5.9	115.23		
23.00	19.5	-5.6	115.25		
23.25	19.7	-5.5	115.26		
23.50	20.8	-4.3	115.27		
23.75	19.2	-5.9	115.29		
24.00	19.0	-6.1	115.30		
24.25	19.3	-5.8	115.31		
24.50	19.3	-5.8	115.33		
24.75	18.9	-6.2	115.34		
25.00	20.7	-4.5	115.35		

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
25.25	21.9	-3.2	115.37		
25.50	20.0	-5.1	115.38		
25.75	18.8	-6.3	115.40		
26.00	20.9	-4.2	115.42		
26.25	19.2	-6.0	115.43		
26.50	21.2	-3.9	115.44		
26.75	20.2	-4.9	115.46		
27.00	21.5	-3.7	115.47		
27.25	20.5	-4.6	115.48		
27.50	20.6	-4.5	115.50		
27.75	20.8	-4.3	115.51		
28.00	19.3	-5.8	115.52		
28.25	21.3	-3.8	115.54		
28.50	20.3	-4.8	115.55		
28.75	21.3	-3.8	115.56		
29.00	21.2	-3.9	115.58		
29.25	19.6	-5.5	115.59		
29.50	21.9	-3.2	115.61		
29.75	20.5	-4.6	115.62		
30.00	22.1	-3.0	115.64		
30.25	21.3	-3.8	115.65		
30.50	22.9	-2.2	115.67		
30.75	21.4	-3.7	115.68		
31.00	22.9	-2.2	115.70		
31.25	21.7	-3.4	115.71		
31.50	23.2	-2.0	115.72		
31.75	21.8	-3.3	115.74		
32.00	23.4	-1.8	115.76		
32.25	21.8	-3.3	115.77		
32.50	23.3	-1.8	115.78		
32.75	21.8	-3.3	115.80		
33.00	22.7	-2.5	115.81		
33.25	21.9	-3.2	115.82		
33.50	21.0	-4.1	115.84		
33.75	22.3	-2.8	115.85		
34.00	23.2	-1.9	115.87		
34.25	22.2	-2.9	115.88		
34.50	22.1	-3.0	115.90		
34.75	22.1	-3.0	115.91		
35.00	20.3	-4.8	115.93		
35.25	22.3	-2.8	115.94		
35.50	20.5	-4.6	115.95		
35.75	22.6	-2.6	115.97		
36.00	20.8	-4.4	115.98		
36.25	22.6	-2.5	116.00		
36.50	20.7	-4.4	116.01		
36.75	22.4	-2.7	116.03		
37.00	20.9	-4.2	116.04		
37.25	22.8	-2.3	116.06		
37.50	20.8	-4.3	116.07		
37.75	22.7	-2.5	116.08		

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DATE: 11/03/97 TIME: 19:15:03

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	38.00	20.7	-4.4	116.09		
	38.25	22.6	-2.5	116.12		
	38.50	23.2	-1.9	116.12		
	38.75	22.0	-3.1	116.15		
	39.00	20.3	-4.8	116.15		
	39.25	22.1	-3.0	116.17		
	39.50	20.9	-4.2	116.19		
	39.75	22.7	-2.4	116.19		
	40.00	21.2	-3.9	116.22		
	40.25	23.0	-2.1	116.22		
	40.50	21.9	-3.2	116.23		
	40.75	23.4	-1.7	116.25		
	41.00	24.4	-0.7	116.26		
	41.25	25.6	0.5	116.28		
	41.50	22.2	-2.9	116.29		
	41.75	21.5	-3.7	116.30		
	42.00	22.2	-2.9	116.31		
	42.25	22.1	-3.0	116.33		
	42.50	21.6	-3.5	116.34		
	42.75	21.9	-3.2	116.36		
	43.00	21.6	-3.5	116.37		
	43.25	21.8	-3.4	116.38		
	43.50	22.3	-2.8	116.40		
	43.75	21.7	-3.4	116.41		
	44.00	22.5	-2.6	116.42		
	44.25	22.4	-2.7	116.43		
	44.50	21.7	-3.4	116.45		
	44.75	22.4	-2.7	116.46		
	45.00	23.0	-2.2	116.48		
	45.25	21.9	-3.2	116.49		
	45.50	23.4	-1.7	116.51		
	45.75	22.0	-3.2	116.52		
	46.00	23.5	-1.6	116.53		
	46.25	22.2	-2.9	116.54		
	46.50	23.7	-1.4	116.56		
	46.75	22.1	-3.1	116.57		
***** End Flow 1	47.00	23.7	-1.4	116.59		
***** Start Shutin 1	0.00	23.7	0.0	116.59	0.0000	0.001
	0.25	22.4	-1.3	116.60	189.0000	0.001
	0.50	24.4	0.6	116.62	95.0000	0.001
	0.75	25.1	1.4	116.63	63.6667	0.001
	1.00	26.6	2.8	116.64	48.0000	0.001
	1.25	27.5	3.8	116.65	38.6000	0.001
	1.50	28.7	4.9	116.66	32.3333	0.001
	1.75	29.7	6.0	116.68	27.8571	0.001
	2.00	31.0	7.2	116.69	24.5000	0.001
	2.25	32.1	8.4	116.71	21.8889	0.001
	2.50	33.0	9.3	116.71	19.8000	0.001
	2.75	34.1	10.4	116.73	18.0909	0.001
	3.00	35.0	11.2	116.75	16.6667	0.001
	3.25	34.0	10.2	116.75	15.4615	0.001

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
3.50	35.2	11.5	116.77	14.4286	0.001
3.75	35.9	12.1	116.78	13.5333	0.001
4.00	37.3	13.5	116.80	12.7500	0.001
4.25	37.9	14.2	116.82	12.0588	0.001
4.50	39.0	15.2	116.82	11.4444	0.002
4.75	39.4	15.7	116.84	10.8947	0.002
5.00	40.4	16.6	116.85	10.4000	0.002
5.25	40.9	17.2	116.86	9.9524	0.002
5.50	41.4	17.7	116.87	9.5455	0.002
5.75	41.9	18.2	116.89	9.1739	0.002
6.00	42.4	18.6	116.90	8.8333	0.002
6.25	42.9	19.1	116.91	8.5200	0.002
6.50	43.4	19.6	116.93	8.2308	0.002
6.75	43.9	20.2	116.94	7.9630	0.002
7.00	44.4	20.7	116.95	7.7143	0.002
7.25	44.9	21.2	116.96	7.4828	0.002
7.50	45.4	21.7	116.98	7.2667	0.002
7.75	45.9	22.2	116.99	7.0645	0.002
8.00	46.4	22.7	117.00	6.8750	0.002
8.25	46.9	23.2	117.01	6.6970	0.002
8.50	47.3	23.6	117.03	6.5294	0.002
8.75	47.8	24.1	117.04	6.3714	0.002
9.00	48.3	24.5	117.05	6.2222	0.002
9.25	48.4	24.7	117.07	6.0811	0.002
9.50	47.5	23.8	117.08	5.9474	0.002
9.75	46.6	22.9	117.09	5.8205	0.002
10.00	45.9	22.1	117.10	5.7000	0.002
10.25	45.2	21.4	117.11	5.5854	0.002
10.50	44.5	20.8	117.13	5.4762	0.002
10.75	43.8	20.1	117.14	5.3721	0.002
11.00	43.2	19.5	117.15	5.2727	0.002
11.25	42.6	18.9	117.16	5.1778	0.002
11.50	42.1	18.4	117.18	5.0870	0.002
11.75	41.6	17.8	117.19	5.0000	0.002
12.00	41.1	17.3	117.20	4.9167	0.002
12.25	40.7	16.9	117.21	4.8367	0.002
12.50	40.3	16.6	117.22	4.7600	0.002
12.75	39.9	16.2	117.24	4.6863	0.002
13.00	39.5	15.8	117.25	4.6154	0.002
13.25	39.1	15.4	117.26	4.5472	0.002
13.50	38.8	15.1	117.27	4.4815	0.002
13.75	38.4	14.7	117.28	4.4182	0.001
14.00	38.1	14.3	117.29	4.3571	0.001
14.25	37.8	14.1	117.31	4.2982	0.001
14.50	37.5	13.7	117.32	4.2414	0.001
14.75	37.2	13.5	117.33	4.1864	0.001
15.00	36.9	13.1	117.34	4.1333	0.001
15.25	36.7	12.9	117.34	4.0820	0.001
15.50	36.4	12.7	117.36	4.0323	0.001
15.75	36.2	12.5	117.38	3.9841	0.001
16.00	36.1	12.3	117.39	3.9375	0.001

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16.25	35.8	12.1	117.40	3.8923	0.001
16.50	35.6	11.9	117.41	3.8485	0.001
16.75	35.5	11.8	117.42	3.8060	0.001
17.00	35.3	11.6	117.44	3.7647	0.001
17.25	35.2	11.5	117.45	3.7246	0.001
17.50	35.0	11.3	117.45	3.6857	0.001
17.75	34.9	11.2	117.47	3.6479	0.001
18.00	34.8	11.1	117.48	3.6111	0.001
18.25	34.7	11.0	117.49	3.5753	0.001
18.50	34.6	10.9	117.50	3.5405	0.001
18.75	34.5	10.8	117.50	3.5067	0.001
19.00	34.5	10.7	117.51	3.4737	0.001
19.25	34.4	10.6	117.53	3.4416	0.001
19.50	34.3	10.6	117.54	3.4103	0.001
19.75	34.3	10.5	117.54	3.3797	0.001
20.00	34.2	10.5	117.56	3.3500	0.001
20.25	34.2	10.4	117.57	3.3210	0.001
20.50	34.1	10.4	117.58	3.2927	0.001
20.75	34.1	10.3	117.59	3.2651	0.001
21.00	34.1	10.3	117.60	3.2381	0.001
21.25	34.0	10.3	117.61	3.2118	0.001
21.50	34.0	10.3	117.62	3.1860	0.001
21.75	34.0	10.2	117.63	3.1609	0.001
22.00	33.9	10.2	117.64	3.1364	0.001
22.25	33.9	10.2	117.65	3.1124	0.001
22.50	33.9	10.2	117.66	3.0889	0.001
22.75	33.9	10.2	117.67	3.0659	0.001
23.00	33.9	10.2	117.68	3.0435	0.001
23.25	33.9	10.2	117.69	3.0215	0.001
23.50	33.9	10.2	117.70	3.0000	0.001
23.75	33.9	10.2	117.70	2.9789	0.001
24.00	33.9	10.2	117.71	2.9583	0.001
24.25	33.9	10.2	117.73	2.9381	0.001
24.50	34.0	10.2	117.73	2.9184	0.001
24.75	34.0	10.2	117.75	2.8990	0.001
25.00	33.9	10.2	117.75	2.8800	0.001
25.25	33.9	10.2	117.77	2.8614	0.001
25.50	33.9	10.2	117.77	2.8431	0.001
25.75	34.0	10.3	117.78	2.8252	0.001
26.00	34.0	10.3	117.79	2.8077	0.001
26.25	34.0	10.2	117.81	2.7905	0.001
26.50	34.0	10.3	117.81	2.7736	0.001
26.75	34.0	10.3	117.83	2.7570	0.001
27.00	34.0	10.3	117.83	2.7407	0.001
27.25	34.1	10.3	117.84	2.7248	0.001
27.50	34.1	10.3	117.85	2.7091	0.001
27.75	34.1	10.4	117.86	2.6937	0.001
28.00	34.1	10.4	117.87	2.6786	0.001
28.25	34.1	10.4	117.88	2.6637	0.001
28.50	34.1	10.4	117.89	2.6491	0.001
28.75	34.1	10.4	117.90	2.6348	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
29.00	34.2	10.4	117.91	2.6207	0.001
29.25	34.2	10.5	117.92	2.6068	0.001
29.50	34.2	10.5	117.93	2.5932	0.001
29.75	34.2	10.5	117.93	2.5798	0.001
30.00	34.3	10.5	117.95	2.5667	0.001
30.25	34.3	10.5	117.95	2.5537	0.001
30.50	34.3	10.6	117.97	2.5410	0.001
30.75	34.3	10.6	117.97	2.5285	0.001
31.00	34.3	10.6	117.98	2.5161	0.001
31.25	34.3	10.6	117.99	2.5040	0.001
31.50	34.4	10.6	118.00	2.4921	0.001
31.75	34.4	10.7	118.01	2.4803	0.001
32.00	34.4	10.7	118.02	2.4688	0.001
32.25	34.5	10.7	118.02	2.4574	0.001
32.50	34.5	10.8	118.03	2.4462	0.001
32.75	34.5	10.8	118.04	2.4351	0.001
33.00	34.5	10.8	118.05	2.4242	0.001
33.25	34.5	10.8	118.06	2.4135	0.001
33.50	34.5	10.8	118.07	2.4030	0.001
33.75	34.6	10.9	118.08	2.3926	0.001
34.00	34.6	10.9	118.09	2.3824	0.001
34.25	34.6	10.9	118.10	2.3723	0.001
34.50	34.7	10.9	118.11	2.3623	0.001
34.75	34.7	11.0	118.12	2.3525	0.001
35.00	34.7	11.0	118.13	2.3429	0.001
35.25	34.8	11.0	118.13	2.3333	0.001
35.50	34.8	11.1	118.14	2.3239	0.001
35.75	34.8	11.1	118.15	2.3147	0.001
36.00	34.9	11.1	118.16	2.3056	0.001
36.25	34.9	11.2	118.17	2.2966	0.001
36.50	34.9	11.2	118.18	2.2877	0.001
36.75	35.0	11.2	118.19	2.2789	0.001
37.00	35.0	11.3	118.19	2.2703	0.001
37.25	35.0	11.3	118.21	2.2617	0.001
37.50	35.0	11.3	118.21	2.2533	0.001
37.75	35.1	11.4	118.22	2.2450	0.001
38.00	35.1	11.3	118.23	2.2368	0.001
38.25	35.1	11.3	118.24	2.2288	0.001
38.50	35.1	11.4	118.25	2.2208	0.001
38.75	35.2	11.4	118.26	2.2129	0.001
39.00	35.2	11.4	118.26	2.2051	0.001
39.25	35.2	11.4	118.28	2.1975	0.001
39.50	35.2	11.5	118.29	2.1899	0.001
39.75	35.2	11.5	118.30	2.1824	0.001
40.00	35.3	11.5	118.30	2.1750	0.001
40.25	35.3	11.6	118.31	2.1677	0.001
40.50	35.3	11.6	118.32	2.1605	0.001
40.75	35.3	11.6	118.33	2.1534	0.001
41.00	35.4	11.6	118.34	2.1463	0.001
41.25	35.4	11.7	118.34	2.1394	0.001
41.50	35.4	11.7	118.36	2.1325	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	41.75	35.4	11.7	118.36	2.1257	0.001
	42.00	35.5	11.7	118.38	2.1190	0.001
	42.25	35.5	11.7	118.38	2.1124	0.001
	42.50	35.5	11.8	118.39	2.1059	0.001
	42.75	35.5	11.8	118.40	2.0994	0.001
***** End Shut-in 1	43.00	35.5	11.8	118.40	2.0930	0.001
***** Start Flow 2	0.00	30.5	0.0	118.60		
	0.25	31.6	1.2	118.61		
	0.50	32.6	2.1	118.62		
	0.75	33.3	2.9	118.62		
	1.00	34.0	3.5	118.63		
	1.25	34.6	4.1	118.64		
	1.50	35.1	4.6	118.66		
	1.75	35.5	5.0	118.65		
	2.00	35.9	5.4	118.66		
	2.25	36.3	5.8	118.67		
	2.50	36.7	6.2	118.68		
	2.75	37.0	6.5	118.68		
	3.00	37.4	6.9	118.69		
	3.25	37.7	7.2	118.70		
	3.50	37.9	7.4	118.71		
	3.75	38.1	7.7	118.72		
	4.00	38.4	7.9	118.73		
	4.25	38.5	8.0	118.73		
	4.50	38.6	8.1	118.74		
	4.75	38.7	8.2	118.75		
	5.00	38.8	8.3	118.76		
	5.25	38.8	8.4	118.77		
	5.50	38.9	8.4	118.78		
	5.75	39.0	8.5	118.78		
	6.00	39.0	8.5	118.79		
	6.25	39.1	8.6	118.80		
	6.50	39.1	8.6	118.81		
	6.75	39.2	8.7	118.81		
	7.00	39.2	8.7	118.83		
	7.25	39.3	8.8	118.82		
	7.50	39.3	8.8	118.83		
	7.75	39.4	8.9	118.84		
	8.00	39.4	8.9	118.85		
	8.25	39.5	9.0	118.86		
	8.50	39.5	9.1	118.86		
	8.75	39.6	9.2	118.88		
	9.00	39.7	9.2	118.88		
	9.25	39.7	9.2	118.89		
	9.50	39.7	9.3	118.90		
	9.75	39.8	9.4	118.91		
	10.00	39.9	9.4	118.91		
	10.25	40.0	9.5	118.92		
	10.50	40.0	9.5	118.93		
	10.75	40.1	9.6	118.94		
	11.00	40.2	9.7	118.94		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
11.25	40.2	9.7	118.95		
11.50	40.3	9.8	118.96		
11.75	40.3	9.9	118.97		
12.00	40.4	9.9	118.97		
12.25	40.4	9.9	118.98		
12.50	40.5	10	118.99		
12.75	40.5	10.0	119.00		
13.00	40.6	10.1	119.00		
13.25	40.6	10.1	119.00		
13.50	40.6	10.1	119.02		
13.75	40.7	10.2	119.02		
14.00	40.7	10.3	119.03		
14.25	40.8	10.3	119.04		
14.50	40.8	10.3	119.04		
14.75	40.9	10.4	119.06		
15.00	40.9	10.4	119.06		
15.25	40.9	10.4	119.07		
15.50	41.0	10.5	119.07		
15.75	41.0	10.5	119.09		
16.00	41.1	10.6	119.09		
16.25	41.1	10.6	119.09		
16.50	41.2	10.7	119.11		
16.75	41.3	10.8	119.11		
17.00	41.3	10.8	119.12		
17.25	41.4	10.9	119.13		
17.50	41.5	11.0	119.14		
17.75	41.5	11.0	119.14		
18.00	41.6	11.1	119.15		
18.25	41.6	11.2	119.16		
18.50	41.7	11.2	119.16		
18.75	41.8	11.3	119.17		
19.00	41.9	11.4	119.18		
19.25	41.9	11.5	119.19		
19.50	42.0	11.5	119.19		
19.75	42.1	11.6	119.19		
20.00	42.2	11.7	119.20		
20.25	42.2	11.7	119.21		
20.50	42.3	11.8	119.22		
20.75	42.4	11.9	119.23		
21.00	42.5	12.0	119.23		
21.25	42.5	12.0	119.24		
21.50	42.6	12.1	119.25		
21.75	42.6	12.2	119.25		
22.00	42.7	12.2	119.26		
22.25	42.8	12.3	119.27		
22.50	42.9	12.4	119.27		
22.75	43.0	12.5	119.28		
23.00	43.0	12.6	119.29		
23.25	43.1	12.7	119.29		
23.50	43.2	12.7	119.30		
23.75	43.2	12.7	119.31		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
24.00	43.3	12.8	119.31		
24.25	43.4	12.9	119.32		
24.50	43.4	13.0	119.33		
24.75	43.6	13.1	119.33		
25.00	43.6	13.2	119.34		
25.25	43.7	13.2	119.35		
25.50	43.8	13.3	119.36		
25.75	43.8	13.4	119.36		
26.00	43.9	13.4	119.37		
26.25	43.9	13.5	119.38		
26.50	44.0	13.5	119.39		
26.75	44.1	13.6	119.39		
27.00	44.2	13.7	119.40		
27.25	44.2	13.8	119.41		
27.50	44.3	13.8	119.41		
27.75	44.4	13.9	119.43		
28.00	44.4	13.9	119.42		
28.25	44.5	14.0	119.41		
28.50	44.6	14.1	119.43		
28.75	44.6	14.2	119.44		
29.00	44.7	14.2	119.44		
29.25	44.8	14.3	119.45		
29.50	44.8	14.4	119.46		
29.75	44.9	14.5	119.47		
30.00	45.0	14.5	119.47		
30.25	45.1	14.6	119.48		
30.50	45.1	14.7	119.49		
30.75	45.2	14.7	119.49		
31.00	45.2	14.8	119.50		
31.25	45.3	14.8	119.50		
31.50	45.4	14.9	119.51		
31.75	45.4	15.0	119.52		
32.00	45.5	15.1	119.52		
32.25	45.6	15.1	119.53		
32.50	45.7	15.2	119.54		
32.75	45.8	15.3	119.55		
33.00	45.8	15.3	119.55		
33.25	45.9	15.4	119.55		
33.50	45.9	15.5	119.56		
33.75	46.0	15.5	119.56		
34.00	46.1	15.6	119.57		
34.25	46.1	15.7	119.58		
34.50	46.2	15.7	119.58		
34.75	46.3	15.8	119.59		
35.00	46.3	15.9	119.60		
35.25	46.4	15.9	119.61		
35.50	46.5	16.0	119.61		
35.75	46.6	16.1	119.62		
36.00	46.6	16.1	119.63		
36.25	46.7	16.2	119.63		
36.50	46.7	16.2	119.64		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
36.75	46.8	16.3	119.64		
37.00	46.8	16.4	119.65		
37.25	46.9	16.4	119.65		
37.50	46.9	16.5	119.66		
37.75	47.0	16.6	119.67		
38.00	47.1	16.6	119.67		
38.25	47.2	16.7	119.68		
38.50	47.2	16.8	119.69		
38.75	47.3	16.8	119.69		
39.00	47.4	16.9	119.70		
39.25	47.4	16.9	119.70		
39.50	47.5	17.0	119.71		
39.75	47.5	17.0	119.72		
40.00	47.6	17.1	119.72		
40.25	47.7	17.2	119.73		
40.50	47.7	17.3	119.74		
40.75	47.8	17.3	119.74		
41.00	47.9	17.4	119.75		
41.25	47.9	17.4	119.75		
41.50	48.0	17.5	119.76		
41.75	48.0	17.5	119.77		
42.00	48.1	17.6	119.77		
42.25	48.2	17.7	119.78		
42.50	48.2	17.8	119.78		
42.75	48.3	17.9	119.79		
43.00	48.4	17.9	119.79		
43.25	48.5	18.0	119.80		
43.50	48.6	18.1	119.80		
43.75	48.6	18.1	119.81		
44.00	48.7	18.2	119.82		
44.25	48.7	18.2	119.82		
44.50	48.8	18.3	119.83		
44.75	48.9	18.4	119.83		
45.00	48.9	18.4	119.84		
45.25	49.0	18.5	119.85		
45.50	49.0	18.5	119.85		
45.75	49.1	18.6	119.86		
46.00	49.2	18.7	119.87		
46.25	49.2	18.7	119.87		
46.50	49.2	18.7	119.88		
46.75	49.3	18.8	119.88		
47.00	49.4	18.9	119.89		
47.25	49.4	18.9	119.89		
47.50	49.5	19.0	119.90		
47.75	49.6	19.1	119.91		
48.00	49.6	19.1	119.91		
48.25	49.7	19.2	119.92		
48.50	49.8	19.3	119.92		
48.75	49.9	19.4	119.93		
49.00	50.0	19.5	119.93		
49.25	50.0	19.5	119.94		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97 TIME: 19:15:03

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	49.50	50.1	19.6	119.95		
	49.75	50.2	19.7	119.95		
	50.00	50.2	19.7	119.96		
	50.25	50.3	19.8	119.97		
	50.50	50.4	19.9	119.97		
	50.75	50.4	19.9	119.97		
	51.00	50.5	20.0	119.98		
	51.25	50.6	20.1	119.99		
	51.50	50.7	20.2	119.99		
	51.75	50.7	20.2	120.00		
	52.00	50.8	20.3	120.00		
	52.25	50.9	20.4	120.01		
	52.50	51.0	20.5	120.01		
	52.75	51.0	20.5	120.02		
	53.00	51.1	20.6	120.02		
	53.25	51.1	20.6	120.03		
	53.50	51.2	20.7	120.03		
	53.75	51.3	20.8	120.04		
	54.00	51.3	20.8	120.05		
	54.25	51.4	20.9	120.06		
	54.50	39.5	9.0	120.06		
***** End Flow 2	54.75	27.2	-3.3	120.06		
***** Start Shutin 2	0.00	27.2	0.0	120.06	0.0000	0.001
	0.25	29.1	1.9	120.07	408.0000	0.001
	0.50	30.4	3.2	120.07	204.5000	0.001
	0.75	31.5	4.3	120.08	136.6667	0.001
	1.00	33.4	6.2	120.09	102.7500	0.001
	1.25	35.1	7.9	120.09	82.4000	0.001
	1.50	35.3	8.1	120.10	68.8333	0.001
	1.75	37.1	9.8	120.10	59.1429	0.001
	2.00	38.5	11.3	120.11	51.8750	0.001
	2.25	39.5	12.3	120.11	46.2222	0.002
	2.50	38.5	11.2	120.12	41.7000	0.001
	2.75	40.1	12.9	120.12	38.0000	0.002
	3.00	40.1	12.9	120.13	34.9167	0.002
	3.25	39.9	12.6	120.13	32.3077	0.002
	3.50	39.7	12.5	120.14	30.0714	0.002
	3.75	37.5	10.3	120.14	28.1333	0.001
	4.00	35.2	8.0	120.14	26.4375	0.001
	4.25	33.2	6.0	120.15	24.9412	0.001
	4.50	31.8	4.5	120.16	23.6111	0.001
	4.75	30.7	3.5	120.16	22.4211	0.001
	5.00	29.9	2.7	120.17	21.3500	0.001
	5.25	29.3	2.1	120.17	20.3810	0.001
	5.50	28.9	1.7	120.18	19.5000	0.001
	5.75	28.6	1.3	120.18	18.6957	0.001
	6.00	28.3	1.1	120.19	17.9583	0.001
	6.25	28.1	0.9	120.19	17.2800	0.001
	6.50	28.0	0.8	120.20	16.6538	0.001
	6.75	27.9	0.7	120.20	16.0741	0.001
	7.00	27.8	0.6	120.21	15.5357	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
7.25	27.8	0.6	120.21	15.0345	0.001
7.50	27.8	0.5	120.22	14.5667	0.001
7.75	27.8	0.5	120.22	14.1290	0.001
8.00	27.7	0.5	120.23	13.7188	0.001
8.25	27.7	0.5	120.24	13.3333	0.001
8.50	27.8	0.6	120.24	12.9706	0.001
8.75	27.8	0.6	120.25	12.6286	0.001
9.00	27.9	0.6	120.25	12.3056	0.001
9.25	27.9	0.7	120.26	12.0000	0.001
9.50	28.0	0.8	120.26	11.7105	0.001
9.75	28.0	0.8	120.27	11.4359	0.001
10.00	28.1	0.9	120.27	11.1750	0.001
10.25	28.2	1	120.28	10.9268	0.001
10.50	28.3	1.1	120.28	10.6905	0.001
10.75	28.3	1.1	120.29	10.4651	0.001
11.00	28.3	1.1	120.29	10.2500	0.001
11.25	28.4	1.2	120.29	10.0444	0.001
11.50	28.5	1.3	120.30	9.8478	0.001
11.75	28.5	1.3	120.31	9.6596	0.001
12.00	28.6	1.3	120.31	9.4792	0.001
12.25	28.6	1.3	120.32	9.3061	0.001
12.50	28.6	1.4	120.33	9.1400	0.001
12.75	28.6	1.4	120.33	8.9804	0.001
13.00	28.7	1.4	120.33	8.8269	0.001
13.25	28.7	1.5	120.34	8.6792	0.001
13.50	28.8	1.5	120.35	8.5370	0.001
13.75	28.8	1.6	120.35	8.4000	0.001
14.00	28.8	1.6	120.36	8.2679	0.001
14.25	28.8	1.6	120.36	8.1404	0.001
14.50	28.9	1.6	120.36	8.0172	0.001
14.75	28.9	1.7	120.37	7.8983	0.001
15.00	29.0	1.7	120.37	7.7833	0.001
15.25	29.0	1.8	120.38	7.6721	0.001
15.50	29.0	1.8	120.38	7.5645	0.001
15.75	29.0	1.8	120.39	7.4603	0.001
16.00	29.1	1.9	120.40	7.3594	0.001
16.25	29.1	1.9	120.40	7.2615	0.001
16.50	29.1	1.9	120.40	7.1667	0.001
16.75	29.2	1.9	120.41	7.0746	0.001
17.00	29.1	1.9	120.42	6.9853	0.001
17.25	29.2	2.0	120.42	6.8986	0.001
17.50	29.2	2.0	120.43	6.8143	0.001
17.75	29.2	2.0	120.44	6.7324	0.001
18.00	29.2	2.0	120.44	6.6528	0.001
18.25	29.3	2.1	120.44	6.5753	0.001
18.50	29.3	2.1	120.45	6.5000	0.001
18.75	29.3	2.1	120.45	6.4267	0.001
19.00	29.4	2.2	120.46	6.3553	0.001
19.25	29.4	2.2	120.47	6.2857	0.001
19.50	29.5	2.2	120.47	6.2179	0.001
19.75	29.5	2.3	120.47	6.1519	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
20.00	29.5	2.3	120.48	6.0875	0.001
20.25	29.5	2.3	120.48	6.0247	0.001
20.50	29.5	2.3	120.49	5.9634	0.001
20.75	29.5	2.3	120.50	5.9036	0.001
21.00	29.6	2.4	120.50	5.8452	0.001
21.25	29.6	2.4	120.50	5.7882	0.001
21.50	29.6	2.4	120.52	5.7326	0.001
21.75	29.7	2.4	120.52	5.6782	0.001
22.00	29.7	2.4	120.52	5.6250	0.001
22.25	29.7	2.4	120.52	5.5730	0.001
22.50	29.7	2.5	120.53	5.5222	0.001
22.75	29.7	2.5	120.53	5.4725	0.001
23.00	29.8	2.5	120.54	5.4239	0.001
23.25	29.8	2.6	120.54	5.3763	0.001
23.50	29.8	2.6	120.55	5.3298	0.001
23.75	29.8	2.6	120.55	5.2842	0.001
24.00	29.8	2.6	120.56	5.2396	0.001
24.25	29.8	2.6	120.56	5.1959	0.001
24.50	29.8	2.6	120.57	5.1531	0.001
24.75	29.9	2.6	120.57	5.1111	0.001
25.00	29.9	2.6	120.58	5.0700	0.001
25.25	29.9	2.6	120.59	5.0297	0.001
25.50	29.9	2.6	120.59	4.9902	0.001
25.75	29.9	2.6	120.60	4.9515	0.001
26.00	29.9	2.6	120.60	4.9135	0.001
26.25	29.9	2.6	120.61	4.8762	0.001
26.50	32.0	4.8	120.62	4.8396	0.001
26.75	33.8	6.5	120.62	4.8037	0.001
27.00	35.4	8.2	120.63	4.7685	0.001
27.25	36.9	9.7	120.63	4.7339	0.001
27.50	38.3	11.1	120.64	4.7000	0.001
27.75	39.9	12.7	120.64	4.6667	0.002
28.00	41.5	14.3	120.65	4.6339	0.002
28.25	43.0	15.8	120.65	4.6018	0.002
28.50	44.5	17.3	120.66	4.5702	0.002
28.75	46.0	18.8	120.66	4.5391	0.002
29.00	47.4	20.2	120.67	4.5086	0.002
29.25	48.8	21.5	120.67	4.4786	0.002
29.50	49.0	21.8	120.68	4.4492	0.002
29.75	50.4	23.2	120.69	4.4202	0.003
30.00	49.7	22.5	120.69	4.3917	0.002
30.25	49.4	22.2	120.70	4.3636	0.002
30.50	48.9	21.7	120.70	4.3361	0.002
30.75	48.9	21.7	120.71	4.3089	0.002
31.00	49.6	22.4	120.71	4.2823	0.002
31.25	49.9	22.7	120.72	4.2560	0.002
31.50	50.1	22.8	120.72	4.2302	0.003
31.75	50.2	23.0	120.73	4.2047	0.003
32.00	49.2	22.0	120.73	4.1797	0.002
32.25	48.2	21.0	120.74	4.1550	0.002
32.50	47.4	20.1	120.74	4.1308	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
32.75	46.6	19.4	120.75	4.1069	0.002
33.00	45.9	18.7	120.76	4.0833	0.002
33.25	45.3	18.1	120.76	4.0602	0.002
33.50	44.7	17.5	120.77	4.0373	0.002
33.75	44.2	17.0	120.77	4.0148	0.002
34.00	43.7	16.5	120.77	3.9926	0.002
34.25	43.2	16.0	120.78	3.9708	0.002
34.50	42.8	15.6	120.78	3.9493	0.002
34.75	42.4	15.2	120.79	3.9281	0.002
35.00	42.2	14.9	120.80	3.9071	0.002
35.25	41.8	14.6	120.80	3.8865	0.002
35.50	41.6	14.4	120.81	3.8662	0.002
35.75	41.3	14.1	120.81	3.8462	0.002
36.00	41.1	13.9	120.81	3.8264	0.002
36.25	40.9	13.7	120.82	3.8069	0.002
36.50	40.7	13.5	120.83	3.7877	0.002
36.75	40.6	13.4	120.83	3.7687	0.002
37.00	40.4	13.2	120.84	3.7500	0.002
37.25	40.3	13.1	120.84	3.7315	0.002
37.50	40.2	13.0	120.84	3.7133	0.002
37.75	40.2	12.9	120.85	3.6954	0.002
38.00	40.1	12.9	120.85	3.6776	0.002
38.25	40.1	12.8	120.86	3.6601	0.002
38.50	40.0	12.8	120.86	3.6429	0.002
38.75	40.0	12.8	120.87	3.6258	0.002
39.00	40.0	12.8	120.88	3.6090	0.002
39.25	40.0	12.8	120.88	3.5924	0.002
39.50	40.0	12.8	120.88	3.5759	0.002
39.75	40.0	12.8	120.89	3.5597	0.002
40.00	40.0	12.8	120.89	3.5438	0.002
40.25	40.1	12.9	120.90	3.5280	0.002
40.50	40.1	12.9	120.90	3.5123	0.002
40.75	40.2	13.0	120.91	3.4969	0.002
41.00	40.2	13.0	120.91	3.4817	0.002
41.25	40.3	13.1	120.92	3.4667	0.002
41.50	40.4	13.1	120.92	3.4518	0.002
41.75	40.4	13.2	120.93	3.4371	0.002
42.00	40.5	13.2	120.93	3.4226	0.002
42.25	40.5	13.3	120.94	3.4083	0.002
42.50	40.6	13.3	120.94	3.3941	0.002
42.75	40.6	13.4	120.95	3.3801	0.002
43.00	40.6	13.4	120.95	3.3663	0.002
43.25	40.7	13.5	120.96	3.3526	0.002
43.50	40.7	13.5	120.96	3.3391	0.002
43.75	40.8	13.6	120.96	3.3257	0.002
44.00	40.9	13.6	120.97	3.3125	0.002
44.25	40.9	13.7	120.98	3.2994	0.002
44.50	41.0	13.8	120.98	3.2865	0.002
44.75	41.0	13.8	120.98	3.2737	0.002
45.00	41.1	13.9	120.98	3.2611	0.002
45.25	41.2	14.0	120.99	3.2486	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
45.50	41.2	14.0	120.99	3.2363	0.002
45.75	41.3	14.1	121.00	3.2240	0.002
46.00	41.4	14.2	121.00	3.2120	0.002
46.25	41.5	14.3	121.01	3.2000	0.002
46.50	41.6	14.4	121.01	3.1882	0.002
46.75	41.7	14.5	121.01	3.1765	0.002
47.00	41.7	14.5	121.02	3.1649	0.002
47.25	41.8	14.5	121.02	3.1534	0.002
47.50	41.8	14.6	121.03	3.1421	0.002
47.75	41.9	14.7	121.03	3.1309	0.002
48.00	42.0	14.7	121.04	3.1198	0.002
48.25	42.0	14.8	121.05	3.1088	0.002
48.50	42.1	14.9	121.05	3.0979	0.002
48.75	42.2	15.0	121.05	3.0872	0.002
49.00	42.3	15.0	121.06	3.0765	0.002
49.25	42.3	15.1	121.06	3.0660	0.002
49.50	42.4	15.2	121.06	3.0556	0.002
49.75	42.5	15.2	121.07	3.0452	0.002
50.00	42.5	15.3	121.07	3.0350	0.002
50.25	42.6	15.3	121.08	3.0249	0.002
50.50	42.6	15.4	121.08	3.0149	0.002
50.75	42.6	15.4	121.08	3.0049	0.002
51.00	42.7	15.5	121.09	2.9951	0.002
51.25	42.8	15.5	121.09	2.9854	0.002
51.50	42.8	15.6	121.10	2.9757	0.002
51.75	42.9	15.6	121.10	2.9662	0.002
52.00	42.9	15.7	121.11	2.9567	0.002
52.25	43.0	15.8	121.11	2.9474	0.002
52.50	43.0	15.8	121.12	2.9381	0.002
52.75	43.1	15.9	121.12	2.9289	0.002
53.00	43.1	15.9	121.13	2.9198	0.002
53.25	43.2	16.0	121.13	2.9108	0.002
53.50	43.3	16.0	121.13	2.9019	0.002
53.75	43.3	16.1	121.14	2.8930	0.002
54.00	43.4	16.1	121.15	2.8843	0.002
54.25	43.4	16.2	121.15	2.8756	0.002
54.50	43.5	16.2	121.15	2.8670	0.002
54.75	43.5	16.3	121.15	2.8584	0.002
55.00	43.6	16.4	121.16	2.8500	0.002
55.25	43.6	16.4	121.17	2.8416	0.002
55.50	43.6	16.4	121.17	2.8333	0.002
55.75	43.7	16.5	121.17	2.8251	0.002
56.00	43.8	16.6	121.18	2.8170	0.002
56.25	43.8	16.6	121.18	2.8089	0.002
56.50	43.9	16.6	121.19	2.8009	0.002
56.75	43.9	16.7	121.19	2.7930	0.002
57.00	44.0	16.8	121.19	2.7851	0.002
57.25	44.0	16.8	121.20	2.7773	0.002
57.50	44.1	16.9	121.21	2.7696	0.002
57.75	44.1	16.9	121.20	2.7619	0.002
58.00	44.2	16.9	121.20	2.7543	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
58.25	44.2	17.0	121.22	2.7468	0.002
58.50	44.3	17.0	121.22	2.7393	0.002
58.75	44.3	17.1	121.22	2.7319	0.002
59.00	44.4	17.1	121.23	2.7246	0.002
59.25	44.4	17.2	121.23	2.7173	0.002
59.50	44.5	17.3	121.24	2.7101	0.002
59.75	44.5	17.3	121.24	2.7029	0.002
60.00	44.6	17.4	121.25	2.6958	0.002
60.25	44.6	17.4	121.25	2.6888	0.002
60.50	44.7	17.4	121.25	2.6818	0.002
60.75	44.7	17.5	121.26	2.6749	0.002
61.00	44.8	17.5	121.26	2.6680	0.002
61.25	44.8	17.6	121.27	2.6612	0.002
61.50	44.9	17.6	121.27	2.6545	0.002
61.75	44.9	17.7	121.27	2.6478	0.002
62.00	45.0	17.8	121.28	2.6411	0.002
62.25	45.1	17.8	121.28	2.6345	0.002
62.50	45.1	17.9	121.29	2.6280	0.002
62.75	45.1	17.9	121.29	2.6215	0.002
63.00	45.2	17.9	121.29	2.6151	0.002
63.25	45.2	18.0	121.30	2.6087	0.002
63.50	45.3	18.0	121.30	2.6024	0.002
63.75	45.3	18.1	121.31	2.5961	0.002
64.00	45.3	18.1	121.31	2.5898	0.002
64.25	45.4	18.2	121.32	2.5837	0.002
64.50	45.4	18.2	121.32	2.5775	0.002
64.75	45.5	18.2	121.32	2.5714	0.002
65.00	45.5	18.3	121.33	2.5654	0.002
65.25	45.6	18.4	121.33	2.5594	0.002
65.50	45.7	18.5	121.34	2.5534	0.002
65.75	45.7	18.5	121.34	2.5475	0.002
66.00	45.7	18.5	121.34	2.5417	0.002
66.25	45.8	18.6	121.34	2.5358	0.002
66.50	45.8	18.6	121.35	2.5301	0.002
66.75	45.8	18.6	121.35	2.5243	0.002
67.00	45.8	18.6	121.36	2.5187	0.002
67.25	45.9	18.7	121.36	2.5130	0.002
67.50	45.9	18.7	121.36	2.5074	0.002
67.75	45.9	18.7	121.37	2.5018	0.002
68.00	46.0	18.7	121.37	2.4963	0.002
68.25	46.0	18.8	121.38	2.4908	0.002
68.50	46.1	18.8	121.38	2.4854	0.002
68.75	46.1	18.9	121.38	2.4800	0.002
69.00	46.1	18.9	121.39	2.4746	0.002
69.25	46.1	18.9	121.39	2.4693	0.002
69.50	46.1	18.9	121.40	2.4640	0.002
69.75	46.1	18.9	121.40	2.4588	0.002
70.00	46.2	19.0	121.40	2.4536	0.002
70.25	46.2	19.0	121.41	2.4484	0.002
70.50	46.3	19.0	121.41	2.4433	0.002
70.75	46.3	19.1	121.42	2.4382	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
71.00	46.3	19.1	121.42	2.4331	0.002
71.25	46.3	19.1	121.42	2.4281	0.002
71.50	46.4	19.2	121.43	2.4231	0.002
71.75	46.4	19.2	121.43	2.4181	0.002
72.00	46.5	19.2	121.43	2.4132	0.002
72.25	46.5	19.3	121.44	2.4083	0.002
72.50	46.5	19.3	121.45	2.4034	0.002
72.75	46.6	19.4	121.45	2.3986	0.002
73.00	46.6	19.4	121.46	2.3938	0.002
73.25	46.6	19.4	121.46	2.3891	0.002
73.50	46.6	19.4	121.46	2.3844	0.002
73.75	46.7	19.5	121.47	2.3797	0.002
74.00	46.7	19.5	121.47	2.3750	0.002
74.25	46.7	19.5	121.47	2.3704	0.002
74.50	46.8	19.5	121.48	2.3658	0.002
74.75	46.8	19.6	121.48	2.3612	0.002
75.00	46.8	19.6	121.49	2.3567	0.002
75.25	46.9	19.6	121.49	2.3522	0.002
75.50	46.9	19.6	121.49	2.3477	0.002
75.75	46.9	19.7	121.50	2.3432	0.002
76.00	46.9	19.7	121.50	2.3388	0.002
76.25	47.0	19.7	121.50	2.3344	0.002
76.50	47.0	19.8	121.51	2.3301	0.002
76.75	47.0	19.8	121.51	2.3257	0.002
77.00	47.0	19.8	121.51	2.3214	0.002
77.25	47.2	19.9	121.51	2.3172	0.002
77.50	47.2	19.9	121.52	2.3129	0.002
77.75	47.2	19.9	121.52	2.3087	0.002
78.00	47.2	20.0	121.53	2.3045	0.002
78.25	47.2	20.0	121.54	2.3003	0.002
78.50	47.3	20.0	121.54	2.2962	0.002
78.75	47.3	20.1	121.54	2.2921	0.002
79.00	47.3	20.1	121.55	2.2880	0.002
79.25	47.3	20.1	121.55	2.2839	0.002
79.50	47.4	20.2	121.56	2.2799	0.002
79.75	47.4	20.2	121.56	2.2759	0.002
80.00	47.4	20.2	121.56	2.2719	0.002
80.25	47.5	20.2	121.56	2.2679	0.002
80.50	47.5	20.3	121.57	2.2640	0.002
80.75	47.5	20.3	121.57	2.2601	0.002
81.00	47.5	20.3	121.58	2.2562	0.002
81.25	47.5	20.3	121.58	2.2523	0.002
81.50	47.6	20.3	121.58	2.2485	0.002
81.75	47.6	20.4	121.59	2.2446	0.002
82.00	47.6	20.4	121.60	2.2409	0.002
82.25	47.7	20.4	121.59	2.2371	0.002
82.50	47.7	20.5	121.60	2.2333	0.002
82.75	47.7	20.5	121.61	2.2296	0.002
83.00	47.8	20.6	121.61	2.2259	0.002
83.25	47.8	20.6	121.61	2.2222	0.002
83.50	47.8	20.6	121.62	2.2186	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 11/03/97

TIME: 19:15:03

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
83.75	47.8	20.5	121.62	2.2149	0.002
84.00	47.9	20.6	121.62	2.2113	0.002
84.25	47.9	20.6	121.63	2.2077	0.002
84.50	47.9	20.6	121.65	2.2041	0.002
84.75	47.8	20.6	121.63	2.2006	0.002
85.00	47.8	20.6	121.64	2.1971	0.002
85.25	47.9	20.7	121.65	2.1935	0.002
85.50	47.9	20.7	121.64	2.1901	0.002
85.75	47.9	20.7	121.64	2.1866	0.002
86.00	47.9	20.7	121.65	2.1831	0.002
86.25	48.0	20.7	121.65	2.1797	0.002
86.50	47.9	20.7	121.65	2.1763	0.002
86.75	48.0	20.8	121.66	2.1729	0.002
87.00	48.0	20.8	121.66	2.1695	0.002
87.25	48.0	20.8	121.67	2.1662	0.002
87.50	48.0	20.8	121.67	2.1629	0.002
87.75	48.1	20.9	121.67	2.1595	0.002
88.00	48.1	20.9	121.68	2.1562	0.002
88.25	48.2	20.9	121.68	2.1530	0.002
88.50	48.2	21.0	121.69	2.1497	0.002
88.75	48.2	21.0	121.70	2.1465	0.002
89.00	48.2	21.0	121.69	2.1433	0.002
89.25	48.3	21.1	121.70	2.1401	0.002
89.50	48.3	21.1	121.71	2.1369	0.002
89.75	48.4	21.1	121.70	2.1337	0.002
90.00	48.4	21.2	121.71	2.1306	0.002
90.25	48.4	21.2	121.71	2.1274	0.002
90.50	48.5	21.2	121.72	2.1243	0.002
90.75	48.5	21.3	121.72	2.1212	0.002
91.00	48.6	21.3	121.72	2.1181	0.002
91.25	48.6	21.4	121.73	2.1151	0.002
91.50	48.6	21.4	121.73	2.1120	0.002
91.75	48.6	21.4	121.74	2.1090	0.002
92.00	48.6	21.4	121.74	2.1060	0.002
92.25	48.7	21.4	121.75	2.1030	0.002
92.50	48.7	21.4	121.75	2.1000	0.002
92.75	48.6	21.3	121.75	2.0970	0.002
93.00	48.6	21.3	121.75	2.0941	0.002
93.25	48.5	21.3	121.76	2.0912	0.002
93.50	48.5	21.2	121.76	2.0882	0.002
93.75	48.4	21.2	121.77	2.0853	0.002
94.00	48.4	21.2	121.76	2.0824	0.002
94.25	48.3	21.1	121.77	2.0796	0.002
94.50	48.3	21.1	121.78	2.0767	0.002
94.75	48.2	21.0	121.78	2.0739	0.002
95.00	48.2	21.0	121.79	2.0711	0.002
95.25	48.1	20.9	121.79	2.0682	0.002
95.50	48.1	20.9	121.79	2.0654	0.002
95.75	48.0	20.8	121.79	2.0627	0.002
96.00	47.9	20.7	121.80	2.0599	0.002
96.25	47.9	20.7	121.80	2.0571	0.002

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
96.50	47.8	20.6	121.81	2.0544	0.002
96.75	47.8	20.6	121.81	2.0517	0.002
97.00	47.8	20.6	121.81	2.0490	0.002
97.25	47.8	20.6	121.82	2.0463	0.002
97.50	47.7	20.5	121.82	2.0436	0.002
97.75	47.8	20.6	121.83	2.0409	0.002
98.00	47.8	20.6	121.83	2.0383	0.002
98.25	47.8	20.6	121.83	2.0356	0.002
98.50	47.8	20.6	121.84	2.0330	0.002
98.75	47.8	20.5	121.84	2.0304	0.002
99.00	47.8	20.5	121.84	2.0278	0.002
99.25	47.8	20.6	121.85	2.0252	0.002
99.50	47.7	20.5	121.85	2.0226	0.002
99.75	47.6	20.4	121.85	2.0201	0.002
100.00	47.5	20.3	121.86	2.0175	0.002
100.25	47.5	20.3	121.87	2.0150	0.002
100.50	47.5	20.3	121.87	2.0124	0.002
100.75	47.5	20.3	121.87	2.0099	0.002
101.00	47.5	20.3	121.87	2.0074	0.002
101.25	47.5	20.3	121.87	2.0049	0.002
101.50	47.4	20.2	121.88	2.0025	0.002
101.75	47.4	20.2	121.88	2.0000	0.002
102.00	47.5	20.2	121.89	1.9975	0.002
102.25	47.4	20.2	121.89	1.9951	0.002
102.50	47.5	20.3	121.89	1.9927	0.002
102.75	47.4	20.2	121.90	1.9903	0.002
103.00	47.4	20.2	121.90	1.9879	0.002
103.25	47.4	20.2	121.91	1.9855	0.002
103.50	47.4	20.2	121.91	1.9831	0.002
103.75	47.4	20.2	121.91	1.9807	0.002
104.00	47.4	20.2	121.91	1.9784	0.002
104.25	47.4	20.2	121.92	1.9760	0.002
104.50	47.4	20.2	121.92	1.9737	0.002
104.75	47.4	20.2	121.92	1.9714	0.002
105.00	47.4	20.2	121.93	1.9690	0.002
105.25	47.4	20.2	121.93	1.9667	0.002
105.50	47.4	20.2	121.93	1.9645	0.002
105.75	47.4	20.2	121.93	1.9622	0.002
106.00	47.4	20.2	121.94	1.9599	0.002
106.25	47.4	20.1	121.95	1.9576	0.002
106.50	47.4	20.2	121.95	1.9554	0.002
106.75	47.4	20.2	121.95	1.9532	0.002
107.00	47.5	20.3	121.96	1.9509	0.002
107.25	47.5	20.3	121.96	1.9487	0.002
107.50	47.5	20.3	121.96	1.9465	0.002
107.75	47.5	20.3	121.97	1.9443	0.002
108.00	47.6	20.3	121.97	1.9421	0.002
108.25	47.6	20.3	121.97	1.9400	0.002
108.50	47.6	20.4	121.98	1.9378	0.002
108.75	47.6	20.4	121.98	1.9356	0.002
109.00	47.6	20.4	121.98	1.9335	0.002

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9806 Patterson #1 DST#1 Canyon Exploration Co.

DATE: 11/03/97

TIME: 19:15:03

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	109.25	47.5	20.3	121.99	1.9314	0.002
	109.50	47.6	20.4	121.99	1.9292	0.002
	109.75	47.6	20.4	122.00	1.9271	0.002
	110.00	47.6	20.4	122.00	1.9250	0.002
	110.25	47.6	20.4	122.00	1.9229	0.002
	110.50	47.7	20.4	122.00	1.9208	0.002
	110.75	47.7	20.4	122.00	1.9187	0.002
	111.00	47.7	20.4	122.00	1.9167	0.002
	111.25	47.6	20.4	122.01	1.9146	0.002
	111.50	47.6	20.4	122.01	1.9126	0.002
	111.75	47.7	20.5	122.02	1.9105	0.002
	112.00	47.7	20.4	122.02	1.9085	0.002
	112.25	47.7	20.4	122.03	1.9065	0.002
	112.50	47.7	20.5	122.03	1.9044	0.002
	112.75	47.7	20.5	122.04	1.9024	0.002
	113.00	47.7	20.4	122.04	1.9004	0.002
	113.25	47.8	20.5	122.04	1.8985	0.002
	113.50	47.7	20.5	122.05	1.8965	0.002
	113.75	47.7	20.5	122.05	1.8945	0.002
	114.00	47.7	20.5	122.05	1.8925	0.002
	114.25	47.8	20.5	122.05	1.8906	0.002
	114.50	47.8	20.5	122.06	1.8886	0.002
	114.75	47.8	20.5	122.06	1.8867	0.002
	115.00	47.7	20.5	122.07	1.8848	0.002
***** End Shut-in 2	115.25	47.8	20.6	122.07	1.8829	0.002
***** Final Hydro.	400.00	2546.5	0.0	122.17		

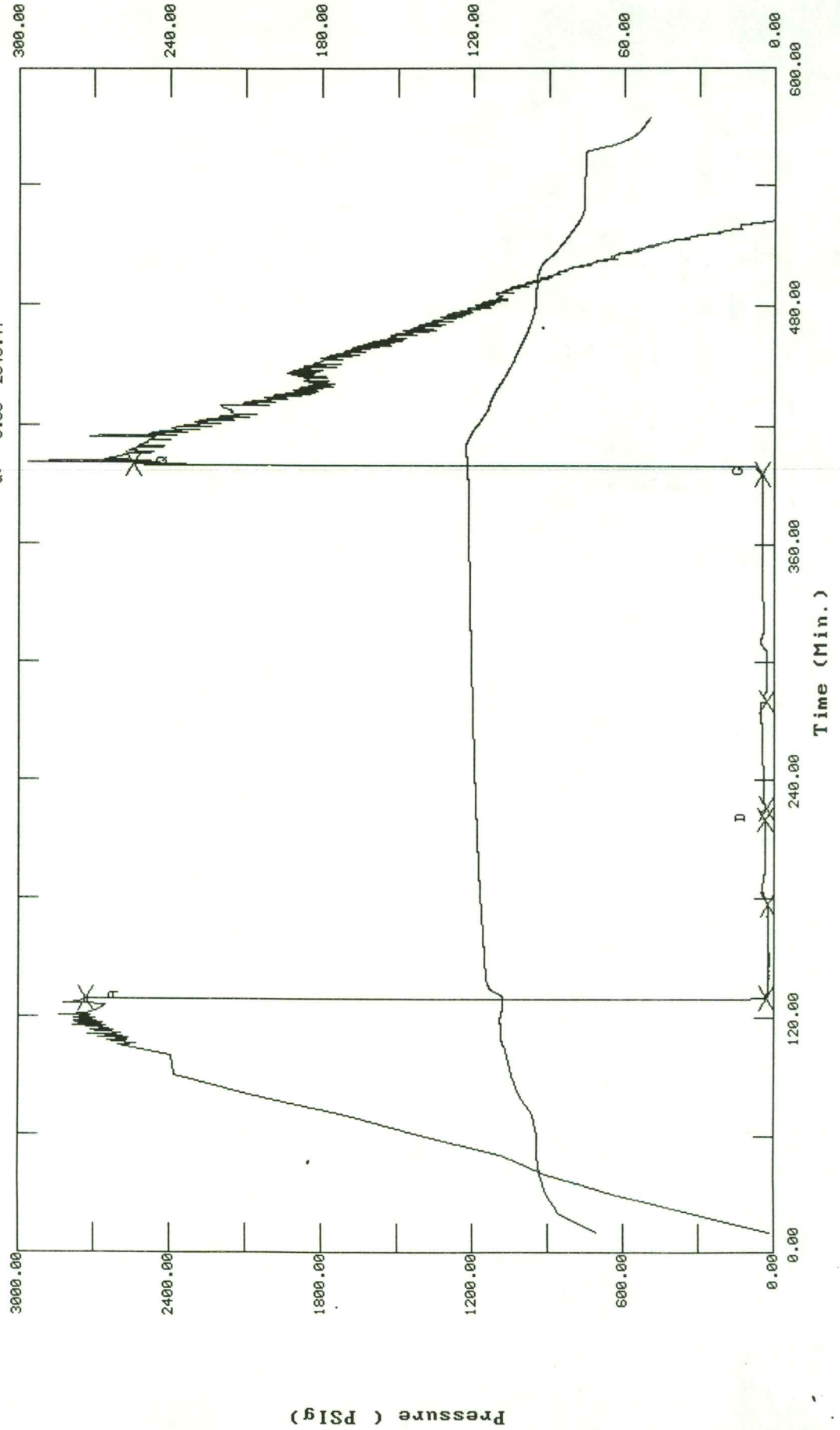
TEST HISTORY

9806 Patterson #1 DST#1 Canyon Exploration Co.

Flag Points

t (Min.) P (PSig)

A:	0.00	2732.12
B:	0.00	25.12
C:	47.00	23.74
D:	43.00	35.51
E:	0.00	30.49
F:	54.75	27.22
G:	115.25	47.81
O:	0.00	2546.47



TEST HISTORY

9806 Patterson #1 DST#1 Canyon Exploration Co.

Flag Points

t(Min.) P(PSIG)

R: 0.00 2732.12
 B: 0.00 25.12
 C: 47.00 23.74
 D: 43.00 35.51
 E: 0.00 30.49
 F: 54.75 27.22
 G: 115.25 47.81
 Q: 0.00 2546.47

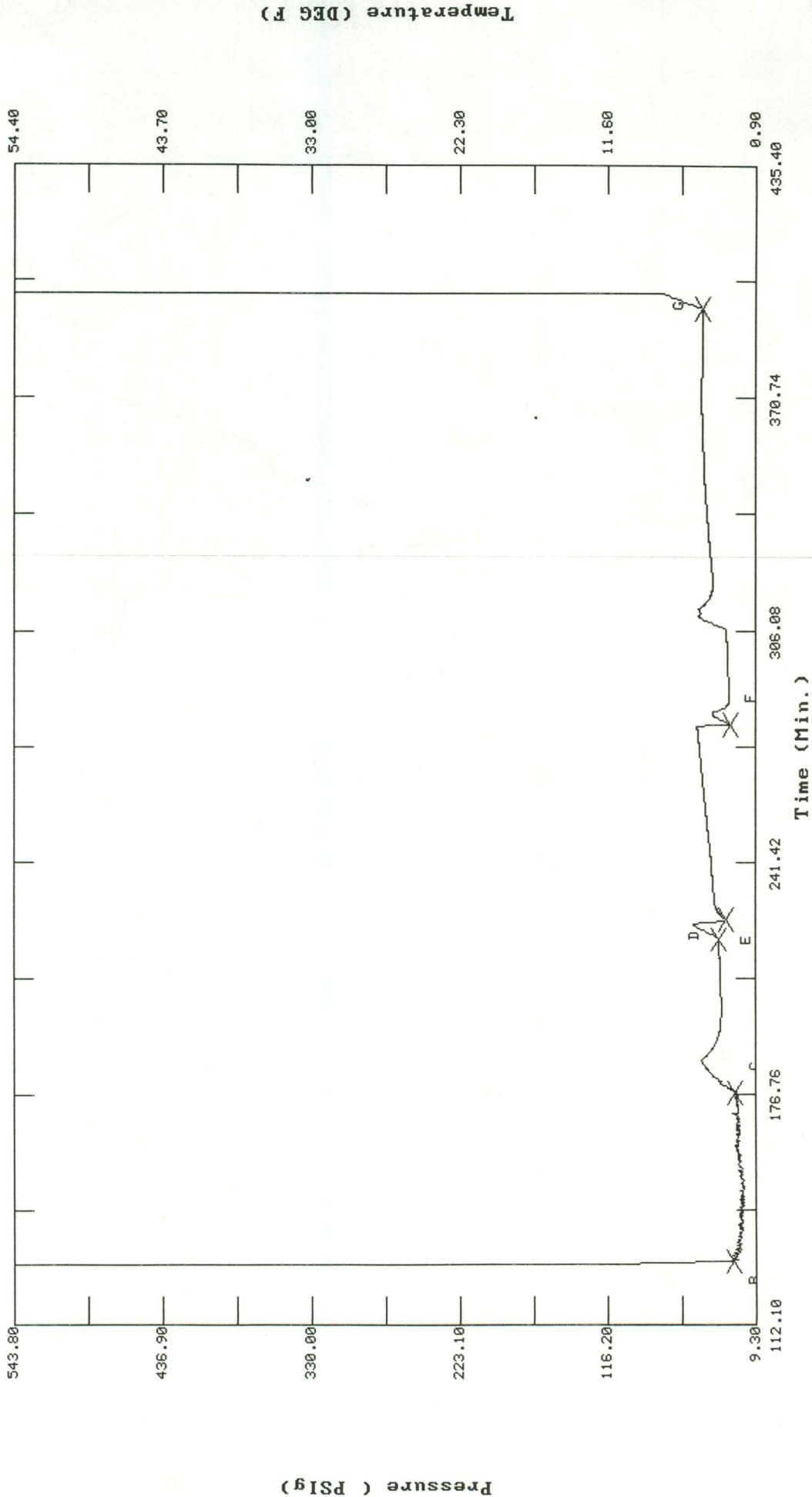
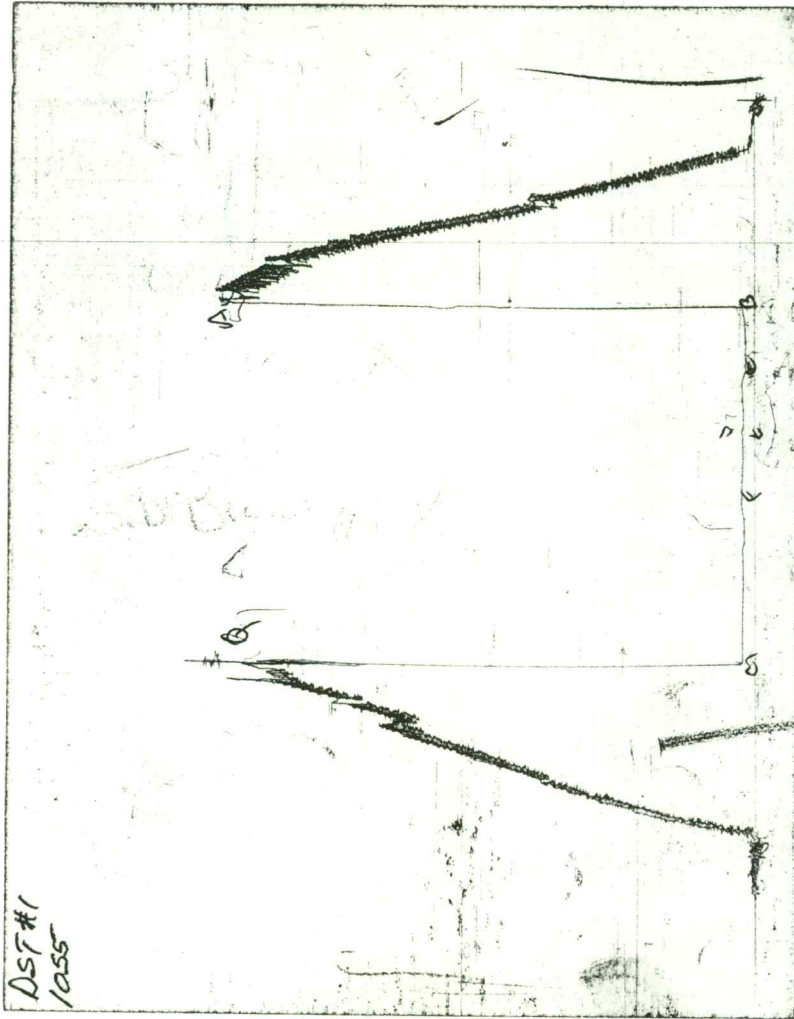


CHART PAGE



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. 9806

Well Name & No. Patterson #1 Test No. 1 Date 11-3-97
Company Canyon Exploration Co. Zone Tested Morrow
Address 905 S. Fillmore, Suite 530 P.O. Box 15205 Amarillo, TX 79105 Elevation 2839 KB 2834 GL
Co. Rep / Geo. Paul F Godowic Cont. Val Energy #1 Est. Ft. of Pay Por. %
Location: Sec. 17 Twp. 31s Rge. 31w Co. Seward State KS
No. of Copies Distribution Sheet (Y, N) Turnkey (Y, N) Evaluation (Y, N)

Interval Tested 5400' - 5490' Initial Str Wt./Lbs. 55,000 Unseated Str Wt./Lbs. 58,000
Anchor Length 90' Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 92,000
Top Packer Depth 5395' Tool Weight 1,600
Bottom Packer Depth 5400' Hole Size — 7 7/8" X Rubber Size — 6 3/4" X
Total Depth 5490' Wt. Pipe Run Drill Collar Run
Mud Wt. 9.3 LCM 2 Vis. 49 WL 6.4 Drill Pipe Size 4 1/2 x-hole Ft. Run 5388'
Blow Description FF - Strong blow. BOB in 3 min. (No Gas to Surface)
ISI - Blowback, built to 5 1/2 min. in bucket.
SF - Fair blow. BOB in 54 min.
FSI - Blowback, built to BOB in 96 min. (No Gas)

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>10'</u>	<u> </u>	<u> </u>	<u>10'</u>	<u> </u>	<u> </u>	<u>100</u>	<u> </u>
Rec. <u>10'</u>	Feet Of <u>100% mud</u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u> </u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u>Sampler -</u>			%gas	%oil	%water	%mud
Rec. <u> </u>	Feet Of <u>75 psi 4000ml 100% mud</u>			%gas	%oil	%water	%mud

BHT 122 °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 4/100 ppm System
(A) Initial Hydrostatic Mud 2732 2798 PSI Recorder No. 3025 T-Started 19:20pm
(B) First Initial Flow Pressure 25 65 PSI (depth) 5403' T-Open 21:25pm
(C) First Final Flow Pressure 22 65 PSI Recorder No. 1055 T-Pulled 01:55am
(D) Initial Shut-in Pressure 38 76 PSI (depth) 5490' T-Out 04:20am
(E) Second Initial Flow Pressure 34 65 PSI Recorder No.
(F) Second Final Flow Pressure 47 65 PSI (depth)
(G) Final Shut-in Pressure 47 76 PSI Initial Opening 30 min; Test 600 Conventional
(H) Final Hydrostatic Mud 2537 2696 PSI Initial Shut-in 60 min; Jars 200
Rec. Alpine #1055 Final Flow 60 min; Safety Joint 50
Final Shut-in 120 min Straddle

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Approved By Paul F Godowic
Our Representative Donald Huber

Circ. Sub ✓ N/C
Sampler ✓ 200
Extra Packer
Elect. Rec. ✓ 150
Other
TOTAL PRICE \$ Est. 4400.00
1200.00