

WELL NAME: Coy #2
COMPANY: Pennzoil Exploration & Production CO
LOCATION: 26-22S-35W
Kearny County Kansas
DATE: 07/07/97

TRILOBITE TESTING L.L.C.

OPERATOR : Pennzoil Exploration

DATE 6-24-97

WELL NAME: Coy #2

KB 3029.00 ft

TICKET NO: 9948

DST #1

LOCATION : 26-22S-35W Kearny Co KS

GR 3024.00 ft

FORMATION: KC "I"

INTERVAL : 4081.00 To 4127.00 ft

TD 4127.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11057	11057	2342			PF Fr. 1600 to 1615 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1615 to 1645 hr
SF 90 Clock(hrs)	12	12 hr	alpin			SF Fr. 1645 to 1815 hr
FS 180 Depth(ft)	4122.0	4122.0	4089.0	0.0	0.0	FS Fr. 1815 to 2115 hr

	Field	1	2	3	4	
A. Init Hydro	1959.0	1946.0	1960.0	0.0	0.0	T STARTED 1350 hr
B. First Flow	78.0	60.0	30.0	0.0	0.0	T ON BOTM 1556 hr
B1. Final Flow	145.0	123.0	179.0	0.0	0.0	T OPEN 1600 hr
C. In Shut-in	1051.0	1044.0	1061.0	0.0	0.0	T PULLED 2115 hr
D. Init Flow	213.0	198.0	181.0	0.0	0.0	T OUT 1225 hr
E. Final Flow	560.0	542.0	571.0	0.0	0.0	
F. Fl Shut-in	1074.0	1053.0	1069.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1937.0	1903.0	1934.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 74000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 59000.00 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 0.00 ft
						D.P. Length 3822.00 ft
						H.W. Length 286.00 ft

RECOVERY

Tot Fluid 1312.00 ft of 0.00 ft in DC and 1312.00 ft in DP

50.00 ft of Free oil 100% oil

180.00 ft of Oil & mud cut water

0.00 ft of 30%oil - 40%water - 30%mud

276.00 ft of Oil & mud cut water

0.00 ft of 20%oil - 65%water - 15%mud

400.00 ft of Slightly oil & mud cut water

0.00 ft of 5%oil - 90%water - 5%mud

406.00 ft of Salt water 100% water - oil scum

SALINITY 49000.00 P.P.M. A.P.I. Gravity 22.00

MUD DATA-----

Mud Type chem

Weight 9.10 lb/c

Vis. 45.00 S/L

W.L. 10.40 in3

F.C. 0.00 in

Mud Drop Y 20.0 ft

BLOW DESCRIPTION

Initial Flow:

Bottom of bucket in 9 minutes

Initial Shutin:

Bled off blow for 1/2 minute
no return

Final Flow:

Bottom of bucket in 12 minutes

Final Shutin:

Bled off blow for 1/2 minute
no return

SAMPLES:

SENT TO:

Amt. of fill 0.00 ft

Btm. H. Temp. 98.00 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. Paul Yowell

Contr. Abercrombie

Rig # 4

Unit #

Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Coy #2

LOCATION : 26-22-35

TICKET No. 9948 D.S.T. No. 1 DATE 6-24-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 25

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 14

TOTAL TOOL 39

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 32

TOTAL ASSEMBLY 71

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands66 Single 1 Total 4076

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4147

TOTAL DEPTH 4127

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

GAS;

OIL; 800 ml

WATER; 3200 ml

MUD;

Pressure; 540 lbs.

Total;4,000 ml.

Chlorides in sampler49000 RW.14 @ 70°F

P.O. SUB

C.O. SUB 1'

4056

S.I. TOOL 5'

4062

sampler 3'

4065

HMV 5'

4070

JARS

SAFETY JOINT 2'

4072

PACKER top

4076

PACKER bottom

4081

DEPTH 4081

STUBB 1'

4082

ANCHOR 6' perf

4088

1' c.o.

4089

alpine recorder

4089

T.C.

DEPTH

32' w.pipe

4121

1' c.o.

4122

ak-1 recorder

4122

BULLNOSE 5' bullplug

4127

T.D.

4127

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
TEST: 9948 DST #1 Coy #2 Pennzoil Prod.
DATE: 06/24/97 TIME: 12:55:30

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	124.00	1960.3	0.0	106.33		
***** Start Flow 1	0.00	31.0	0.0	106.52		
	1.00	45.6	14.6	106.52		
	2.00	59.7	28.7	106.51		
	3.00	71.0	40.0	106.48		
	4.00	84.8	53.9	106.48		
	5.00	95.2	64.2	106.54		
	6.00	106.7	75.8	106.64		
	7.00	120.3	89.3	106.76		
	8.00	130.2	99.2	106.88		
	9.00	142.9	112.0	107.00		
	10.00	149.8	118.8	107.11		
	11.00	155.8	124.8	107.22		
	12.00	162.0	131.0	107.30		
	13.00	168.1	137.1	107.39		
	14.00	173.8	142.8	107.46		
***** End Flow 1	15.00	179.0	148.0	107.53		
***** Start Shutin 1	0.00	179.0	0.0	107.53	0.0000	0.032
	1.00	976.7	797.6	107.62	16.0000	0.954
	2.00	1017.4	838.4	107.73	8.5000	1.035
	3.00	1031.5	852.5	107.83	6.0000	1.064
	4.00	1039.3	860.3	107.92	4.7500	1.080
	5.00	1044.5	865.5	108.01	4.0000	1.091
	6.00	1048.1	869.1	108.08	3.5000	1.098
	7.00	1051.0	872.0	108.14	3.1429	1.105
	8.00	1053.3	874.3	108.21	2.8750	1.109
	9.00	1055.2	876.2	108.24	2.6667	1.113
	10.00	1056.8	877.8	108.28	2.5000	1.117
	11.00	1058.2	879.1	108.32	2.3636	1.120
	12.00	1059.3	880.3	108.36	2.2500	1.122
	13.00	1060.4	881.4	108.40	2.1538	1.124
	14.00	1061.3	882.2	108.42	2.0714	1.126
	15.00	1062.1	883.1	108.45	2.0000	1.128
	16.00	1062.9	883.8	108.47	1.9375	1.130
	17.00	1063.4	884.4	108.48	1.8824	1.131
	18.00	1064.0	885.0	108.51	1.8333	1.132
	19.00	1064.5	885.5	108.52	1.7895	1.133
	20.00	1065.0	886.0	108.53	1.7500	1.134
	21.00	1065.4	886.4	108.55	1.7143	1.135
	22.00	1065.8	886.8	108.57	1.6818	1.136
	23.00	1066.1	887.1	108.59	1.6522	1.137
	24.00	1066.5	887.5	108.59	1.6250	1.138
	25.00	1066.8	887.8	108.60	1.6000	1.138
	26.00	1067.0	888.0	108.61	1.5769	1.139
	27.00	1067.3	888.3	108.62	1.5556	1.139
	28.00	1067.6	888.5	108.62	1.5357	1.140
	29.00	1067.8	888.8	108.62	1.5172	1.140
***** End Shut-in 1	30.00	1061.3	882.2	108.64	1.5000	1.126
***** Start Flow 2	0.00	181.9	0.0	108.59		
	1.00	187.3	5.4	108.56		
	2.00	193.1	11.2	108.54		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9948 DST #1 Coy #2 Pennzoil Prod.

DATE: 06/24/97 TIME: 12:55:30

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
3.00	198.5	16.5	108.54		
4.00	204.0	22.1	108.56		
5.00	209.1	27.1	108.61		
6.00	214.2	32.2	108.70		
7.00	219.5	37.6	108.78		
8.00	224.5	42.6	108.88		
9.00	230.2	48.3	108.97		
10.00	235.3	53.4	109.06		
11.00	240.5	58.6	109.16		
12.00	246.1	64.1	109.25		
13.00	251.2	69.2	109.33		
14.00	256.8	74.9	109.42		
15.00	261.8	79.9	109.49		
16.00	267.0	85.0	109.56		
17.00	272.4	90.5	109.61		
18.00	277.3	95.3	109.66		
19.00	282.5	100.5	109.71		
20.00	287.4	105.5	109.74		
21.00	292.3	110.4	109.77		
22.00	297.5	115.6	109.80		
23.00	302.2	120.3	109.82		
24.00	306.8	124.9	109.84		
25.00	312.0	130.1	109.86		
26.00	316.7	134.8	109.88		
27.00	321.4	139.4	109.89		
28.00	326.5	144.5	109.90		
29.00	331.1	149.1	109.91		
30.00	335.6	153.7	109.91		
31.00	340.5	158.5	109.92		
32.00	344.9	163.0	109.93		
33.00	349.6	167.6	109.93		
34.00	354.3	172.3	109.94		
35.00	358.6	176.7	109.94		
36.00	363.3	181.4	109.94		
37.00	367.9	186.0	109.95		
38.00	372.4	190.4	109.95		
39.00	377.0	195.0	109.95		
40.00	381.4	199.5	109.95		
41.00	385.6	203.7	109.95		
42.00	390.1	208.1	109.95		
43.00	394.6	212.7	109.96		
44.00	399.0	217.0	109.96		
45.00	403.4	221.5	109.95		
46.00	407.7	225.8	109.96		
47.00	411.9	230.0	109.96		
48.00	415.9	234.0	109.96		
49.00	420.4	238.4	109.96		
50.00	424.5	242.6	109.96		
51.00	428.6	246.7	109.96		
52.00	433.0	251.0	109.95		
53.00	437.1	255.1	109.95		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9948 DST #1 Coy #2 Pennzoil Prod.

DATE: 06/24/97

TIME: 12:55:30

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	54.00	441.2	259.3	109.95		
	55.00	445.6	263.6	109.94		
	56.00	449.6	267.6	109.94		
	57.00	453.5	271.5	109.94		
	58.00	457.9	276.0	109.93		
	59.00	461.8	279.9	109.93		
	60.00	465.7	283.8	109.93		
	61.00	469.5	287.5	109.92		
	62.00	473.7	291.7	109.93		
	63.00	477.5	295.6	109.92		
	64.00	481.2	299.3	109.91		
	65.00	485.3	303.4	109.91		
	66.00	489.1	307.2	109.91		
	67.00	492.8	310.9	109.91		
	68.00	496.5	314.6	109.90		
	69.00	500.5	318.5	109.90		
	70.00	504.1	322.1	109.89		
	71.00	507.8	325.8	109.89		
	72.00	511.5	329.6	109.89		
	73.00	515.3	333.4	109.88		
	74.00	518.9	337.0	109.88		
	75.00	522.6	340.7	109.88		
	76.00	526.6	344.6	109.87		
	77.00	530.0	348.0	109.87		
	78.00	533.5	351.6	109.87		
	79.00	537.0	355.0	109.86		
	80.00	540.7	358.7	109.86		
	81.00	544.1	362.1	109.85		
	82.00	547.5	365.6	109.85		
	83.00	551.0	369.0	109.85		
	84.00	554.7	372.7	109.84		
	85.00	558.0	376.1	109.84		
	86.00	561.3	379.4	109.84		
	87.00	564.6	382.6	109.83		
	88.00	568.2	386.2	109.82		
***** End Flow 2	89.00	571.5	389.6	109.82		
***** Start Shutin 2	0.00	571.5	0.0	109.82	0.0000	0.327
	1.00	980.9	409.4	109.85	105.0000	0.962
	2.00	1011.2	439.6	109.86	53.0000	1.022
	3.00	1020.8	449.3	109.86	35.6667	1.042
	4.00	1026.3	454.8	109.87	27.0000	1.053
	5.00	1030.1	458.6	109.87	21.8000	1.061
	6.00	1033.0	461.4	109.86	18.3333	1.067
	7.00	1035.3	463.8	109.85	15.8571	1.072
	8.00	1037.3	465.7	109.85	14.0000	1.076
	9.00	1038.8	467.3	109.83	12.5556	1.079
	10.00	1040.4	468.8	109.83	11.4000	1.082
	11.00	1041.8	470.2	109.82	10.4545	1.085
	12.00	1043.0	471.4	109.81	9.6667	1.088
	13.00	1044.1	472.5	109.79	9.0000	1.090
	14.00	1045.0	473.4	109.79	8.4286	1.092

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9948 DST #1 Coy #2 Pennzoil Prod.

DATE: 06/24/97 TIME: 12:55:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
15.00	1045.9	474.4	109.78	7.9333	1.094
16.00	1046.7	475.2	109.78	7.5000	1.096
17.00	1047.6	476.0	109.74	7.1176	1.097
18.00	1048.2	476.7	109.74	6.7778	1.099
19.00	1048.9	477.4	109.73	6.4737	1.100
20.00	1049.5	478.0	109.72	6.2000	1.101
21.00	1050.1	478.6	109.72	5.9524	1.103
22.00	1050.8	479.2	109.71	5.7273	1.104
23.00	1051.2	479.6	109.71	5.5217	1.105
24.00	1051.8	480.2	109.69	5.3333	1.106
25.00	1052.2	480.7	109.68	5.1600	1.107
26.00	1052.7	481.2	109.67	5.0000	1.108
27.00	1053.0	481.5	109.67	4.8519	1.109
28.00	1053.5	481.9	109.66	4.7143	1.110
29.00	1053.9	482.3	109.65	4.5862	1.111
30.00	1054.3	482.8	109.65	4.4667	1.112
31.00	1054.6	483.1	109.63	4.3548	1.112
32.00	1055.0	483.4	109.63	4.2500	1.113
33.00	1055.4	483.8	109.61	4.1515	1.114
34.00	1055.8	484.3	109.60	4.0588	1.115
35.00	1056.1	484.5	109.59	3.9714	1.115
36.00	1056.4	484.9	109.58	3.8889	1.116
37.00	1056.6	485.0	109.58	3.8108	1.116
38.00	1056.9	485.4	109.57	3.7368	1.117
39.00	1057.1	485.6	109.56	3.6667	1.118
40.00	1057.5	485.9	109.55	3.6000	1.118
41.00	1057.7	486.2	109.55	3.5366	1.119
42.00	1058.1	486.5	109.54	3.4762	1.120
43.00	1058.2	486.6	109.53	3.4186	1.120
44.00	1058.5	486.9	109.53	3.3636	1.120
45.00	1058.7	487.2	109.51	3.3111	1.121
46.00	1058.9	487.4	109.50	3.2609	1.121
47.00	1059.2	487.6	109.50	3.2128	1.122
48.00	1059.4	487.9	109.50	3.1667	1.122
49.00	1059.7	488.1	109.49	3.1224	1.123
50.00	1059.8	488.3	109.48	3.0800	1.123
51.00	1060.0	488.5	109.48	3.0392	1.124
52.00	1060.2	488.6	109.47	3.0000	1.124
53.00	1060.3	488.8	109.46	2.9623	1.124
54.00	1060.5	489.0	109.45	2.9259	1.125
55.00	1060.8	489.2	109.46	2.8909	1.125
56.00	1060.9	489.4	109.45	2.8571	1.126
57.00	1061.1	489.6	109.44	2.8246	1.126
58.00	1061.3	489.7	109.43	2.7931	1.126
59.00	1061.4	489.9	109.42	2.7627	1.127
60.00	1061.5	490.0	109.42	2.7333	1.127
61.00	1061.7	490.1	109.41	2.7049	1.127
62.00	1061.8	490.3	109.41	2.6774	1.128
63.00	1062.1	490.6	109.40	2.6508	1.128
64.00	1062.2	490.6	109.40	2.6250	1.128
65.00	1062.3	490.8	109.39	2.6000	1.129

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 06/24/97

TIME: 12:55:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
66.00	1062.5	491.0	109.39	2.5758	1.129
67.00	1062.7	491.1	109.38	2.5522	1.129
68.00	1062.7	491.1	109.38	2.5294	1.129
69.00	1062.9	491.3	109.37	2.5072	1.130
70.00	1062.9	491.4	109.36	2.4857	1.130
71.00	1063.1	491.6	109.36	2.4648	1.130
72.00	1063.2	491.6	109.36	2.4444	1.130
73.00	1063.4	491.8	109.35	2.4247	1.131
74.00	1063.5	492.0	109.35	2.4054	1.131
75.00	1063.6	492.1	109.34	2.3867	1.131
76.00	1063.7	492.2	109.34	2.3684	1.131
77.00	1063.9	492.3	109.32	2.3506	1.132
78.00	1063.9	492.4	109.32	2.3333	1.132
79.00	1064.0	492.5	109.31	2.3165	1.132
80.00	1064.2	492.7	109.31	2.3000	1.133
81.00	1064.3	492.7	109.30	2.2840	1.133
82.00	1064.4	492.8	109.30	2.2683	1.133
83.00	1064.4	492.9	109.30	2.2530	1.133
84.00	1064.5	493.0	109.29	2.2381	1.133
85.00	1064.7	493.2	109.28	2.2235	1.134
86.00	1064.8	493.2	109.28	2.2093	1.134
87.00	1064.9	493.3	109.28	2.1954	1.134
88.00	1065.0	493.5	109.28	2.1818	1.134
89.00	1065.1	493.6	109.28	2.1685	1.134
90.00	1065.1	493.6	109.27	2.1556	1.134
91.00	1065.2	493.7	109.27	2.1429	1.135
92.00	1065.2	493.7	109.26	2.1304	1.135
93.00	1065.4	493.8	109.26	2.1183	1.135
94.00	1065.5	493.9	109.25	2.1064	1.135
95.00	1065.6	494.1	109.25	2.0947	1.136
96.00	1065.6	494.1	109.25	2.0833	1.136
97.00	1065.8	494.3	109.25	2.0722	1.136
98.00	1065.9	494.3	109.24	2.0612	1.136
99.00	1065.9	494.4	109.24	2.0505	1.136
100.00	1065.9	494.4	109.23	2.0400	1.136
101.00	1066.0	494.5	109.23	2.0297	1.136
102.00	1066.1	494.6	109.22	2.0196	1.137
103.00	1066.2	494.7	109.23	2.0097	1.137
104.00	1066.3	494.8	109.22	2.0000	1.137
105.00	1066.3	494.8	109.22	1.9905	1.137
106.00	1066.5	494.9	109.21	1.9811	1.137
107.00	1066.5	495.0	109.22	1.9720	1.138
108.00	1066.5	495.0	109.20	1.9630	1.138
109.00	1066.7	495.2	109.20	1.9541	1.138
110.00	1066.7	495.2	109.20	1.9455	1.138
111.00	1066.8	495.2	109.19	1.9369	1.138
112.00	1066.8	495.2	109.20	1.9286	1.138
113.00	1066.8	495.2	109.20	1.9204	1.138
114.00	1066.9	495.3	109.19	1.9123	1.138
115.00	1067.0	495.4	109.19	1.9043	1.138
116.00	1067.0	495.5	109.19	1.8966	1.139

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9948 DST #1 Coy #2 Pennzoil Prod.

DATE: 06/24/97 TIME: 12:55:30

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
117.00	1067.1	495.6	109.18	1.8889	1.139
118.00	1067.2	495.7	109.18	1.8814	1.139
119.00	1067.3	495.8	109.18	1.8739	1.139
120.00	1067.4	495.8	109.17	1.8667	1.139
121.00	1067.4	495.8	109.17	1.8595	1.139
122.00	1067.4	495.8	109.16	1.8525	1.139
123.00	1067.5	496.0	109.16	1.8455	1.140
124.00	1067.5	496.0	109.16	1.8387	1.140
125.00	1067.5	496.0	109.15	1.8320	1.140
126.00	1067.7	496.2	109.15	1.8254	1.140
127.00	1067.7	496.2	109.15	1.8189	1.140
128.00	1067.7	496.2	109.15	1.8125	1.140
129.00	1067.8	496.3	109.14	1.8062	1.140
130.00	1067.8	496.3	109.14	1.8000	1.140
131.00	1067.9	496.3	109.13	1.7939	1.140
132.00	1067.9	496.3	109.13	1.7879	1.140
133.00	1067.9	496.3	109.13	1.7820	1.140
134.00	1068.0	496.5	109.12	1.7761	1.141
135.00	1068.0	496.5	109.11	1.7704	1.141
136.00	1068.0	496.5	109.11	1.7647	1.141
137.00	1068.2	496.7	109.11	1.7591	1.141
138.00	1068.2	496.7	109.11	1.7536	1.141
139.00	1068.3	496.8	109.11	1.7482	1.141
140.00	1068.4	496.8	109.11	1.7429	1.141
141.00	1068.4	496.8	109.11	1.7376	1.141
142.00	1068.4	496.8	109.10	1.7324	1.141
143.00	1068.3	496.8	109.11	1.7273	1.141
144.00	1068.5	496.9	109.10	1.7222	1.142
145.00	1068.6	497.0	109.10	1.7172	1.142
146.00	1068.6	497.0	109.11	1.7123	1.142
147.00	1068.6	497.1	109.09	1.7075	1.142
148.00	1068.6	497.1	109.09	1.7027	1.142
149.00	1068.7	497.2	109.08	1.6980	1.142
150.00	1068.8	497.3	109.08	1.6933	1.142
151.00	1068.8	497.3	109.07	1.6887	1.142
152.00	1068.8	497.3	109.07	1.6842	1.142
153.00	1068.8	497.3	109.07	1.6797	1.142
154.00	1068.8	497.3	109.08	1.6753	1.142
155.00	1069.0	497.4	109.08	1.6710	1.143
156.00	1069.0	497.4	109.07	1.6667	1.143
157.00	1069.0	497.4	109.07	1.6624	1.143
158.00	1069.1	497.5	109.07	1.6582	1.143
159.00	1069.1	497.5	109.06	1.6541	1.143
160.00	1069.2	497.7	109.06	1.6500	1.143
161.00	1069.2	497.7	109.06	1.6460	1.143
162.00	1069.2	497.7	109.06	1.6420	1.143
163.00	1069.1	497.6	109.06	1.6380	1.143
164.00	1069.3	497.8	109.06	1.6341	1.143
165.00	1069.3	497.8	109.05	1.6303	1.143
166.00	1069.4	497.8	109.05	1.6265	1.144
167.00	1069.4	497.8	109.04	1.6228	1.144

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9948 DST #1 Coy #2 Pennzoil Prod.

DATE: 06/24/97 TIME: 12:55:30

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	168.00	1069.4	497.8	109.04	1.6190	1.144
	169.00	1069.5	497.9	109.04	1.6154	1.144
	170.00	1069.5	497.9	109.04	1.6118	1.144
	171.00	1069.5	497.9	109.04	1.6082	1.144
	172.00	1069.4	497.8	109.03	1.6047	1.144
	173.00	1069.6	498.0	109.04	1.6012	1.144
	174.00	1069.6	498.0	109.03	1.5977	1.144
	175.00	1069.6	498.0	109.03	1.5943	1.144
	176.00	1069.5	497.9	109.03	1.5909	1.144
	177.00	1069.6	498.1	109.02	1.5876	1.144
	178.00	1069.7	498.2	109.02	1.5843	1.144
	179.00	1069.7	498.2	109.02	1.5810	1.144
	180.00	1069.8	498.3	109.02	1.5778	1.144
	181.00	1069.8	498.3	109.01	1.5746	1.144
	182.00	1069.8	498.3	109.01	1.5714	1.144
***** End Shut-in 2	183.00	1070.0	498.4	109.01	1.5683	1.145
***** Final Hydro.	447.00	1934.2	0.0	109.08		

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9948 Date 6-24-97
Company Name Pennzoil Explor.
Lease Coy #2 Test No. #1
County Kearny, Ks Sec. 26 Twp. 22 Rng. 35

SAMPLER RECOVERY

Gas _____ ML
Oil 800 ML
Mud _____ ML
Water 3,200 ML
Other _____ ML
Pressure 540 lbs
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,000 ppm.
Resistivity 1.43 ohms @ 90 F
Viscosity 45
Mud Weight 9.1
Filtrate 10.4
Other LCM #1

SAMPLER ANALYSIS

Resistivity .14 ohms @ 70 F
Chlorides 49,000 ppm.
Gravity 22 corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .14 ohms @ 70 F
Chlorides 49,000 ppm.

TEST HISTORY

9948 DST #1 Coy #2 Pennzoil Prod.

Flag Points
t(Min.) P(PSig)

A: 0.00 1960.29
B: 0.00 30.96
C: 15.00 179.01
D: 30.00 1061.26
E: 0.00 181.95
F: 89.00 571.54
G: 183.00 1069.99
Q: 0.00 1934.19

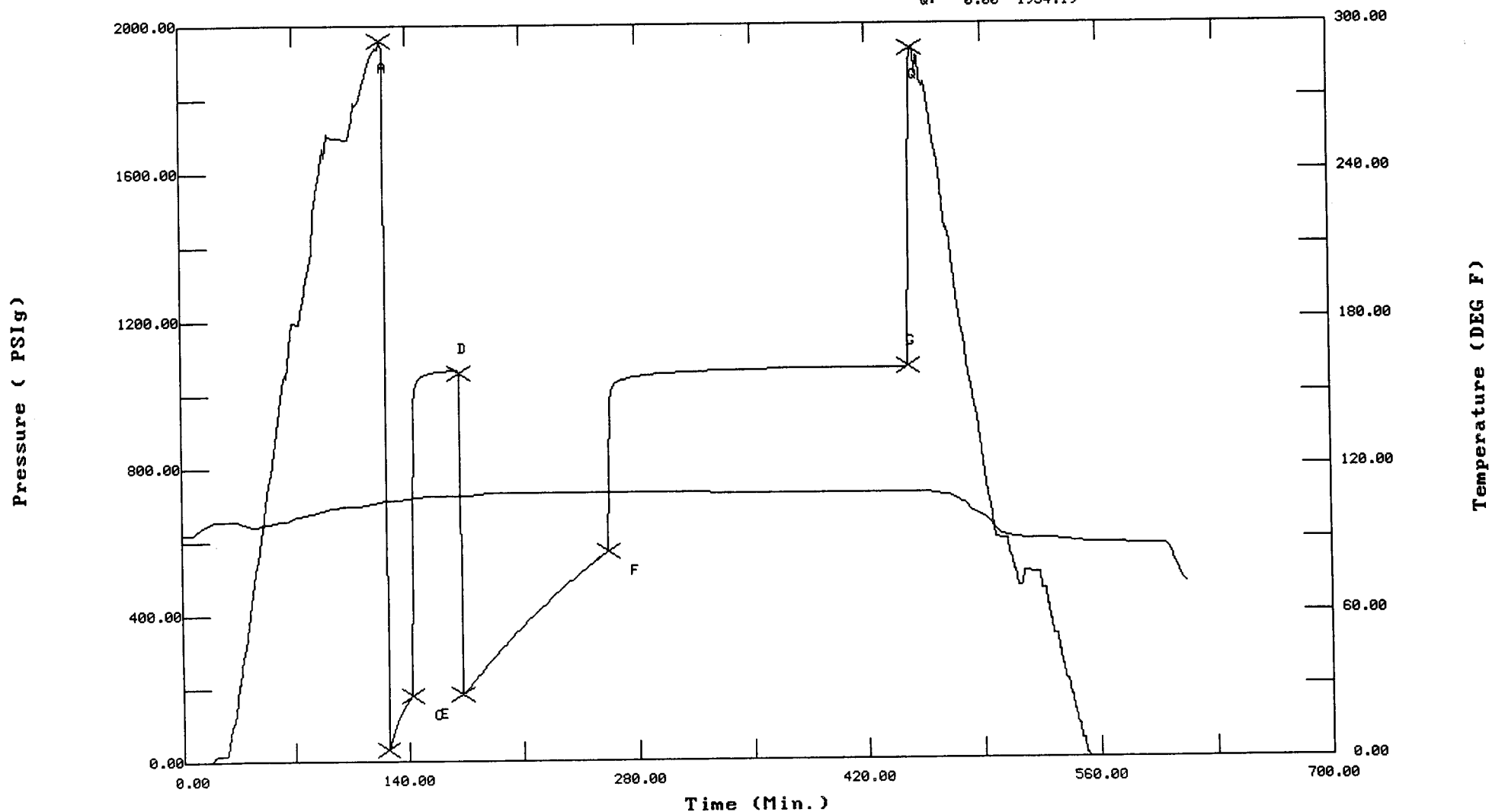
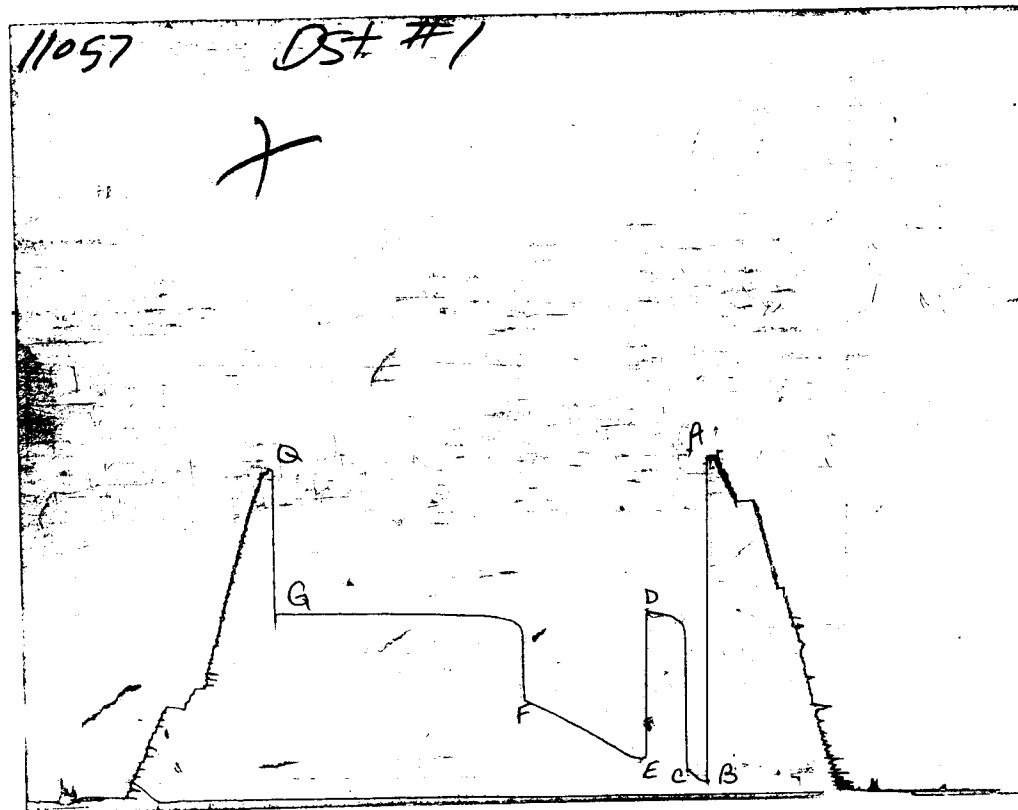


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9949 Date 6-26-97
Company Name Pennzoil Prod. Co.
Lease Coy #2 Test No. #2
County Kearny, KS Sec. 26 Twp. 22 Rng. 35

SAMPLER RECOVERY

Gas _____ ML
Oil Spec's _____ ML
Mud 4,000 _____ ML
Water _____ ML
Other _____ ML
Pressure 120 165 _____ PSI
Total 4,000 _____ ML

PIT MUD ANALYSIS

Chlorides 3,000 _____ ppm.
Resistivity 2.02 ohms @ 65 F
Viscosity 45 _____
Mud Weight 9.1 _____
Filtrate 9.6 _____
Other LCM #1 _____

SAMPLER ANALYSIS

Resistivity 1.59 ohms @ 84 F
Chlorides 3,100 _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 1.59 ohms @ 84 F
Chlorides 3,100 _____ ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Pennzoil Exploration
WELL NAME: Coy #2
LOCATION : 26-22-35
INTERVAL : 4442.00 To 4460.00 ft

DATE 6-26-97
KB 3029.00 ft TICKET NO: 9949 DST #2
GR 3024.00 ft FORMATION: Pawnee
TD 4460.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11057	11057	2342			PF Fr. 0605 to 0620 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0620 to 0650 hr
SF 90 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 0650 to 0820 hr
FS 180 Depth(ft)	4455.0	4455.0	4448.0	0.0	0.0	FS Fr. 0820 to 1120 hr

	Field	1	2	3	4	
A. Init Hydro	2140.0	2133.0	2152.0	0.0	0.0	T STARTED 0345 hr
B. First Flow	22.0	42.0	14.0	0.0	0.0	T ON BOTM 0601 hr
B1. Final Flow	11.0	35.0	17.0	0.0	0.0	T OPEN 0605 hr
C. In Shut-in	995.0	1002.0	1055.0	0.0	0.0	T PULLED 1120 hr
D. Init Flow	22.0	42.0	18.0	0.0	0.0	T OUT 1335 hr
E. Final Flow	11.0	38.0	22.0	0.0	0.0	
F. Fl Shut-in	1141.0	1150.0	1180.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2129.0	2105.0	2109.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 74000.00 lbs
						Initial Str Wt 54000.00 lbs
						Unseated Str Wt 54000.00 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 0.00 ft
						D.P. Length 4136.00 ft
						H.W. I.D 2.70 in
						H.W. Length 286.00 ft

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
5.00 ft of Drilling Mud with oil scum
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 3100.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak surface blow died in 13 min

Initial Shutin:
No return

Final Flow:
Bubble to open tool - no blow

Final Shutin:
No return

SAMPLES:
SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	45.00 S/L
W.L.	9.60 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 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.	Paul Yowell
Contr.	Abercrombie
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Coy #2	P.O. SUB	
	C.O. SUB 1'	4417
LOCATION : 26-22-35	S.I. TOOL 5'	4423
TICKET No. 9949 D.S.T. No. 2 DATE 6-26-97	sampler 3'	4426
TOTAL TOOL TO BOTTOM OF TOP PACKERS 25	HMV 5'	4431
INTERVAL TOOL		
BOTTOM PACKERS AND ANCHOR 18	JARS	
TOTAL TOOL 43		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT 2'	4433
D.P. ANCHOR STND.Stands Single Total	PACKER top	4437
TOTAL ASSEMBLY 43	PACKER bottom	4442
D.C. ABOVE TOOLS.Stands Single Total	DEPTH 4442	
D.P. ABOVE TOOLS.Stands71 Single Total 4422	STUBB 1'	4443
	ANCHOR 5'-perf	4448
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4465	alpine recorder	4448
	7' -perf	4455
TOTAL DEPTH 4460	ak-1 recorder	4455
TOTAL DRILL PIPE ABOVE K.B. 5		
REMARKS:		
GAS;		
OIL;		
WATER;	T.C.	
MUD; 4,000 ml.	DEPTH	
Pressure;120 lbs.		
Total; 4,000 ml		
Chlorides in sampler 3,100 RW 1.59 @ 84°F		
	BULLNOSE 5' bullplug	4460
	T.D.	4460

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9949 DST #2 Coy #2 Pennzoil Explor.

DATE: 06/26/97

TIME: 02:47:51

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	139.00	2152.2	0.0	109.69		
***** Start Flow 1	0.00	14.8	0.0	109.86		
	1.00	14.8	0.0	109.92		
	2.00	15.0	0.2	109.96		
	3.00	15.3	0.4	109.97		
	4.00	15.3	0.4	109.97		
	5.00	15.4	0.6	109.97		
	6.00	15.9	1.1	109.97		
	7.00	16.1	1.3	109.98		
	8.00	16.3	1.4	109.99		
	9.00	16.2	1.3	110.00		
	10.00	16.4	1.6	110.01		
	11.00	16.9	2.1	110.01		
	12.00	17.1	2.3	110.03		
	13.00	17.3	2.4	110.05		
	14.00	17.5	2.7	110.06		
	15.00	17.5	2.7	110.08		
***** End Flow 1	16.00	17.6	2.8	110.09		
***** Start Shutin 1	0.00	17.6	0.0	110.09	0.0000	0.000
	1.00	21.1	3.5	110.11	17.0000	0.000
	2.00	25.8	8.1	110.13	9.0000	0.001
	3.00	32.5	14.9	110.15	6.3333	0.001
	4.00	42.5	24.9	110.16	5.0000	0.002
	5.00	59.3	41.7	110.19	4.2000	0.004
	6.00	90.0	72.3	110.21	3.6667	0.008
	7.00	148.8	131.2	110.23	3.2857	0.022
	8.00	241.5	223.9	110.25	3.0000	0.058
	9.00	352.7	335.1	110.28	2.7778	0.124
	10.00	453.5	435.9	110.32	2.6000	0.206
	11.00	540.4	522.8	110.35	2.4545	0.292
	12.00	612.8	595.2	110.39	2.3333	0.376
	13.00	673.9	656.3	110.43	2.2308	0.454
	14.00	725.9	708.3	110.47	2.1429	0.527
	15.00	770.4	752.7	110.51	2.0667	0.593
	16.00	808.7	791.1	110.54	2.0000	0.654
	17.00	842.5	824.8	110.56	1.9412	0.710
	18.00	872.2	854.6	110.60	1.8889	0.761
	19.00	898.6	881.0	110.63	1.8421	0.807
	20.00	922.2	904.6	110.66	1.8000	0.850
	21.00	943.2	925.6	110.69	1.7619	0.890
	22.00	962.2	944.6	110.71	1.7273	0.926
	23.00	979.6	962.0	110.73	1.6957	0.960
	24.00	995.2	977.6	110.75	1.6667	0.990
	25.00	1009.6	991.9	110.77	1.6400	1.019
	26.00	1022.6	1004.9	110.80	1.6154	1.046
	27.00	1034.6	1017.0	110.82	1.5926	1.070
	28.00	1045.6	1027.9	110.83	1.5714	1.093
***** End Shut-in 1	29.00	1055.8	1038.2	110.85	1.5517	1.115
***** Start Flow 2	0.00	18.6	0.0	110.81		
	1.00	18.7	0.1	110.79		
	2.00	18.9	0.3	110.77		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9949 DST #2 Coy #2 Pennzoil Explor.

DATE: 06/26/97

TIME: 02:47:51

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
3.00	19.0	0.3	110.75		
4.00	19.0	0.3	110.72		
5.00	19.1	0.5	110.70		
6.00	19.1	0.5	110.69		
7.00	19.1	0.5	110.68		
8.00	19.3	0.7	110.69		
9.00	19.3	0.7	110.68		
10.00	19.3	0.7	110.69		
11.00	19.3	0.7	110.69		
12.00	19.3	0.7	110.70		
13.00	19.4	0.8	110.71		
14.00	19.4	0.8	110.72		
15.00	19.5	0.8	110.73		
16.00	19.5	0.9	110.75		
17.00	19.6	1.0	110.76		
18.00	19.6	1.0	110.77		
19.00	19.6	1.0	110.78		
20.00	19.6	1.0	110.79		
21.00	19.6	1.0	110.81		
22.00	19.7	1.1	110.82		
23.00	19.7	1.1	110.83		
24.00	19.7	1.1	110.85		
25.00	19.7	1.1	110.85		
26.00	19.7	1.1	110.87		
27.00	19.7	1.1	110.88		
28.00	19.8	1.2	110.89		
29.00	19.9	1.3	110.90		
30.00	19.9	1.3	110.92		
31.00	20.1	1.4	110.93		
32.00	20.1	1.4	110.94		
33.00	20.2	1.6	110.96		
34.00	20.2	1.6	110.96		
35.00	20.3	1.7	110.98		
36.00	20.3	1.7	110.99		
37.00	20.4	1.8	111.00		
38.00	20.6	1.9	111.00		
39.00	20.6	2.0	111.02		
40.00	20.6	2.0	111.03		
41.00	20.8	2.2	111.04		
42.00	20.8	2.2	111.05		
43.00	20.8	2.2	111.06		
44.00	20.8	2.2	111.07		
45.00	20.7	2.1	111.07		
46.00	20.7	2.1	111.08		
47.00	20.9	2.3	111.09		
48.00	21.1	2.4	111.10		
49.00	21.1	2.4	111.11		
50.00	21.1	2.5	111.12		
51.00	21.1	2.5	111.13		
52.00	21.2	2.6	111.14		
53.00	21.2	2.6	111.15		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9949 DST #2 Coy #2 Pennzoil Explor.

DATE: 06/26/97 TIME: 02:47:51

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	54.00	21.2	2.6	111.16		
	55.00	21.2	2.6	111.17		
	56.00	21.2	2.6	111.18		
	57.00	21.4	2.8	111.18		
	58.00	21.5	2.9	111.20		
	59.00	21.6	2.9	111.20		
	60.00	21.6	3.0	111.22		
	61.00	21.6	3.0	111.23		
	62.00	21.8	3.2	111.22		
	63.00	21.9	3.3	111.23		
	64.00	21.9	3.3	111.24		
	65.00	22.0	3.4	111.25		
	66.00	22.1	3.4	111.26		
	67.00	22.1	3.4	111.27		
	68.00	22.1	3.5	111.27		
	69.00	22.1	3.5	111.29		
	70.00	22.2	3.6	111.29		
	71.00	22.3	3.7	111.30		
	72.00	22.3	3.7	111.31		
	73.00	22.3	3.7	111.31		
	74.00	22.3	3.7	111.32		
	75.00	22.2	3.6	111.33		
	76.00	22.2	3.6	111.34		
	77.00	22.2	3.6	111.35		
	78.00	22.2	3.6	111.35		
	79.00	22.4	3.8	111.36		
	80.00	22.5	3.9	111.37		
	81.00	22.5	3.9	111.37		
	82.00	22.5	3.9	111.38		
	83.00	22.6	3.9	111.39		
	84.00	22.6	3.9	111.40		
	85.00	22.6	3.9	111.41		
	86.00	22.7	4.0	111.41		
	87.00	22.7	4.0	111.42		
	88.00	22.7	4.1	111.43		
	89.00	22.7	4.1	111.44		
***** End Flow 2	90.00	22.8	4.2	111.44		
***** Start Shutin 2	0.00	22.8	0.0	111.44	0.0000	0.001
	1.00	24.0	1.2	111.44	107.0000	0.001
	2.00	26.1	3.3	111.46	54.0000	0.001
	3.00	28.4	5.6	111.46	36.3333	0.001
	4.00	31.0	8.1	111.47	27.5000	0.001
	5.00	34.0	11.2	111.48	22.2000	0.001
	6.00	37.1	14.3	111.48	18.6667	0.001
	7.00	40.6	17.8	111.49	16.1429	0.002
	8.00	44.8	22.0	111.50	14.2500	0.002
	9.00	49.8	26.9	111.51	12.7778	0.002
	10.00	55.4	32.6	111.52	11.6000	0.003
	11.00	62.1	39.3	111.52	10.6364	0.004
	12.00	70.2	47.4	111.53	9.8333	0.005
	13.00	79.9	57.1	111.54	9.1538	0.006

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9949 DST #2 Coy #2 Pennzoil Explor.

DATE: 06/26/97

TIME: 02:47:51

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
14.00	92.7	69.9	111.55	8.5714	0.009
15.00	108.7	85.9	111.56	8.0667	0.012
16.00	128.8	106.0	111.57	7.6250	0.017
17.00	154.3	131.4	111.58	7.2353	0.024
18.00	185.6	162.8	111.59	6.8889	0.034
19.00	222.0	199.2	111.60	6.5789	0.049
20.00	264.0	241.2	111.61	6.3000	0.070
21.00	310.4	287.5	111.63	6.0476	0.096
22.00	359.0	336.1	111.65	5.8182	0.129
23.00	407.0	384.2	111.66	5.6087	0.166
24.00	453.6	430.8	111.68	5.4167	0.206
25.00	497.2	474.4	111.70	5.2400	0.247
26.00	537.4	514.6	111.72	5.0769	0.289
27.00	574.4	551.6	111.74	4.9259	0.330
28.00	608.7	585.9	111.76	4.7857	0.371
29.00	639.2	616.4	111.77	4.6552	0.409
30.00	666.8	644.0	111.79	4.5333	0.445
31.00	692.2	669.4	111.81	4.4194	0.479
32.00	715.1	692.3	111.82	4.3125	0.511
33.00	736.3	713.5	111.84	4.2121	0.542
34.00	755.8	732.9	111.85	4.1176	0.571
35.00	773.7	750.9	111.86	4.0286	0.599
36.00	790.3	767.5	111.87	3.9444	0.625
37.00	805.9	783.0	111.88	3.8649	0.649
38.00	820.2	797.4	111.90	3.7895	0.673
39.00	833.4	810.6	111.90	3.7179	0.695
40.00	845.6	822.8	111.91	3.6500	0.715
41.00	857.2	834.4	111.93	3.5854	0.735
42.00	868.1	845.3	111.93	3.5238	0.754
43.00	878.5	855.6	111.92	3.4651	0.772
44.00	888.2	865.4	111.95	3.4091	0.789
45.00	897.5	874.7	111.95	3.3556	0.806
46.00	906.3	883.5	111.96	3.3043	0.821
47.00	914.6	891.7	111.97	3.2553	0.836
48.00	922.4	899.5	111.98	3.2083	0.851
49.00	929.9	907.1	111.98	3.1633	0.865
50.00	937.1	914.3	111.99	3.1200	0.878
51.00	944.0	921.2	112.00	3.0784	0.891
52.00	950.6	927.7	112.00	3.0385	0.904
53.00	956.9	934.0	112.01	3.0000	0.916
54.00	962.9	940.1	112.02	2.9630	0.927
55.00	968.7	945.9	112.03	2.9273	0.938
56.00	974.1	951.3	112.03	2.8929	0.949
57.00	979.4	956.6	112.03	2.8596	0.959
58.00	984.5	961.7	112.04	2.8276	0.969
59.00	989.5	966.7	112.04	2.7966	0.979
60.00	994.2	971.4	112.05	2.7667	0.988
61.00	998.9	976.1	112.05	2.7377	0.998
62.00	1003.3	980.4	112.05	2.7097	1.007
63.00	1007.5	984.6	112.06	2.6825	1.015
64.00	1011.6	988.8	112.07	2.6562	1.023

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9949 DST #2 Coy #2 Pennzoil Explor.

DATE: 06/26/97

TIME: 02:47:51

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
65.00	1015.6	992.8	112.07	2.6308	1.031
66.00	1019.4	996.6	112.08	2.6061	1.039
67.00	1023.1	1000.3	112.08	2.5821	1.047
68.00	1026.7	1003.9	112.08	2.5588	1.054
69.00	1030.4	1007.6	112.09	2.5362	1.062
70.00	1033.7	1010.9	112.10	2.5143	1.069
71.00	1037.2	1014.4	112.11	2.4930	1.076
72.00	1040.4	1017.6	112.10	2.4722	1.083
73.00	1043.6	1020.8	112.11	2.4521	1.089
74.00	1046.7	1023.9	112.12	2.4324	1.096
75.00	1049.8	1026.9	112.12	2.4133	1.102
76.00	1052.7	1029.9	112.12	2.3947	1.108
77.00	1055.4	1032.6	112.12	2.3766	1.114
78.00	1058.2	1035.3	112.13	2.3590	1.120
79.00	1060.9	1038.1	112.14	2.3418	1.126
80.00	1063.6	1040.8	112.14	2.3250	1.131
81.00	1066.1	1043.3	112.15	2.3086	1.137
82.00	1068.6	1045.8	112.15	2.2927	1.142
83.00	1071.2	1048.3	112.15	2.2771	1.147
84.00	1073.6	1050.8	112.16	2.2619	1.153
85.00	1075.9	1053.1	112.16	2.2471	1.158
86.00	1078.2	1055.4	112.17	2.2326	1.163
87.00	1080.5	1057.7	112.17	2.2184	1.167
88.00	1082.7	1059.8	112.18	2.2045	1.172
89.00	1084.8	1061.9	112.18	2.1910	1.177
90.00	1086.8	1064.0	112.18	2.1778	1.181
91.00	1088.8	1066.0	112.18	2.1648	1.185
92.00	1090.7	1067.9	112.18	2.1522	1.190
93.00	1092.6	1069.8	112.20	2.1398	1.194
94.00	1094.5	1071.7	112.19	2.1277	1.198
95.00	1096.4	1073.6	112.20	2.1158	1.202
96.00	1098.2	1075.4	112.21	2.1042	1.206
97.00	1099.9	1077.1	112.21	2.0928	1.210
98.00	1101.7	1078.9	112.20	2.0816	1.214
99.00	1103.4	1080.6	112.21	2.0707	1.217
100.00	1105.1	1082.2	112.21	2.0600	1.221
101.00	1106.8	1084.0	112.21	2.0495	1.225
102.00	1108.4	1085.6	112.21	2.0392	1.229
103.00	1110.1	1087.3	112.22	2.0291	1.232
104.00	1111.6	1088.8	112.23	2.0192	1.236
105.00	1113.1	1090.3	112.23	2.0095	1.239
106.00	1114.6	1091.8	112.24	2.0000	1.242
107.00	1116.1	1093.2	112.24	1.9907	1.246
108.00	1117.2	1094.4	112.24	1.9815	1.248
109.00	1118.7	1095.8	112.25	1.9725	1.251
110.00	1120.1	1097.3	112.25	1.9636	1.255
111.00	1121.4	1098.6	112.25	1.9550	1.258
112.00	1122.8	1100.0	112.26	1.9464	1.261
113.00	1124.1	1101.3	112.26	1.9381	1.264
114.00	1125.5	1102.6	112.27	1.9298	1.267
115.00	1126.7	1103.9	112.27	1.9217	1.270

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9949 DST #2 Coy #2 Pennzoil Explor.

DATE: 06/26/97

TIME: 02:47:51

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
116.00	1127.9	1105.1	112.40	1.9138	1.272
117.00	1129.2	1106.4	112.22	1.9060	1.275
118.00	1130.3	1107.5	112.27	1.8983	1.278
119.00	1131.6	1108.8	112.28	1.8908	1.280
120.00	1132.9	1110.1	112.28	1.8833	1.284
121.00	1134.0	1111.2	112.29	1.8760	1.286
122.00	1135.1	1112.3	112.29	1.8689	1.288
123.00	1136.3	1113.5	112.29	1.8618	1.291
124.00	1137.4	1114.6	112.29	1.8548	1.294
125.00	1138.6	1115.7	112.30	1.8480	1.296
126.00	1139.6	1116.8	112.30	1.8413	1.299
127.00	1140.7	1117.9	112.31	1.8346	1.301
128.00	1141.8	1119.0	112.31	1.8281	1.304
129.00	1142.8	1120.0	112.31	1.8217	1.306
130.00	1143.9	1121.1	112.30	1.8154	1.309
131.00	1144.9	1122.0	112.31	1.8092	1.311
132.00	1145.9	1123.0	112.31	1.8030	1.313
133.00	1146.8	1124.0	112.32	1.7970	1.315
134.00	1147.7	1124.9	112.32	1.7910	1.317
135.00	1148.7	1125.9	112.32	1.7852	1.320
136.00	1149.6	1126.8	112.33	1.7794	1.322
137.00	1150.6	1127.7	112.33	1.7737	1.324
138.00	1151.5	1128.7	112.34	1.7681	1.326
139.00	1152.3	1129.5	112.33	1.7626	1.328
140.00	1153.2	1130.4	112.34	1.7571	1.330
141.00	1154.1	1131.3	112.34	1.7518	1.332
142.00	1154.9	1132.1	112.34	1.7465	1.334
143.00	1155.8	1132.9	112.35	1.7413	1.336
144.00	1156.6	1133.8	112.35	1.7361	1.338
145.00	1157.3	1134.5	112.36	1.7310	1.339
146.00	1158.1	1135.3	112.36	1.7260	1.341
147.00	1158.9	1136.0	112.36	1.7211	1.343
148.00	1159.6	1136.8	112.36	1.7162	1.345
149.00	1160.5	1137.6	112.38	1.7114	1.347
150.00	1161.2	1138.4	112.36	1.7067	1.348
151.00	1162.0	1139.2	112.36	1.7020	1.350
152.00	1162.6	1139.7	112.36	1.6974	1.352
153.00	1163.3	1140.5	112.37	1.6928	1.353
154.00	1164.1	1141.2	112.37	1.6883	1.355
155.00	1164.7	1141.9	112.37	1.6839	1.357
156.00	1165.4	1142.6	112.38	1.6795	1.358
157.00	1166.1	1143.3	112.38	1.6752	1.360
158.00	1166.8	1144.0	112.39	1.6709	1.362
159.00	1167.4	1144.6	112.38	1.6667	1.363
160.00	1168.2	1145.4	112.38	1.6625	1.365
161.00	1168.8	1145.9	112.39	1.6584	1.366
162.00	1169.4	1146.6	112.40	1.6543	1.368
163.00	1170.0	1147.2	112.39	1.6503	1.369
164.00	1170.8	1148.0	112.40	1.6463	1.371
165.00	1171.4	1148.6	112.41	1.6424	1.372
166.00	1172.0	1149.1	112.41	1.6386	1.373

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9949 DST #2 Coy #2 Pennzoil Explor.

DATE: 06/26/97 TIME: 02:47:51

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	167.00	1172.6	1149.8	112.40	1.6347	1.375
	168.00	1173.1	1150.3	112.41	1.6310	1.376
	169.00	1173.8	1151.0	112.41	1.6272	1.378
	170.00	1174.3	1151.5	112.42	1.6235	1.379
	171.00	1174.8	1152.0	112.42	1.6199	1.380
	172.00	1175.5	1152.7	112.42	1.6163	1.382
	173.00	1176.0	1153.2	112.42	1.6127	1.383
	174.00	1176.6	1153.8	112.43	1.6092	1.384
	175.00	1177.2	1154.3	112.42	1.6057	1.386
	176.00	1177.6	1154.8	112.42	1.6023	1.387
	177.00	1178.1	1155.3	112.43	1.5989	1.388
	178.00	1178.7	1155.9	112.43	1.5955	1.389
	179.00	1179.2	1156.4	112.43	1.5922	1.390
***** End Shut-in 2	180.00	1180.4	1157.5	112.44	1.5889	1.393
***** Final Hydro.	458.00	2109.1	0.0	112.49		

TEST HISTORY

9949 DST #2 Coy #2 Pennzoil Explor.

Flag Points

t(Min.) P(PSIg)

A:	0.00	2152.15
B:	0.00	14.85
C:	16.00	17.62
D:	29.00	1055.80
E:	0.00	18.62
F:	90.00	22.82
G:	180.00	1180.35
Q:	0.00	2109.10

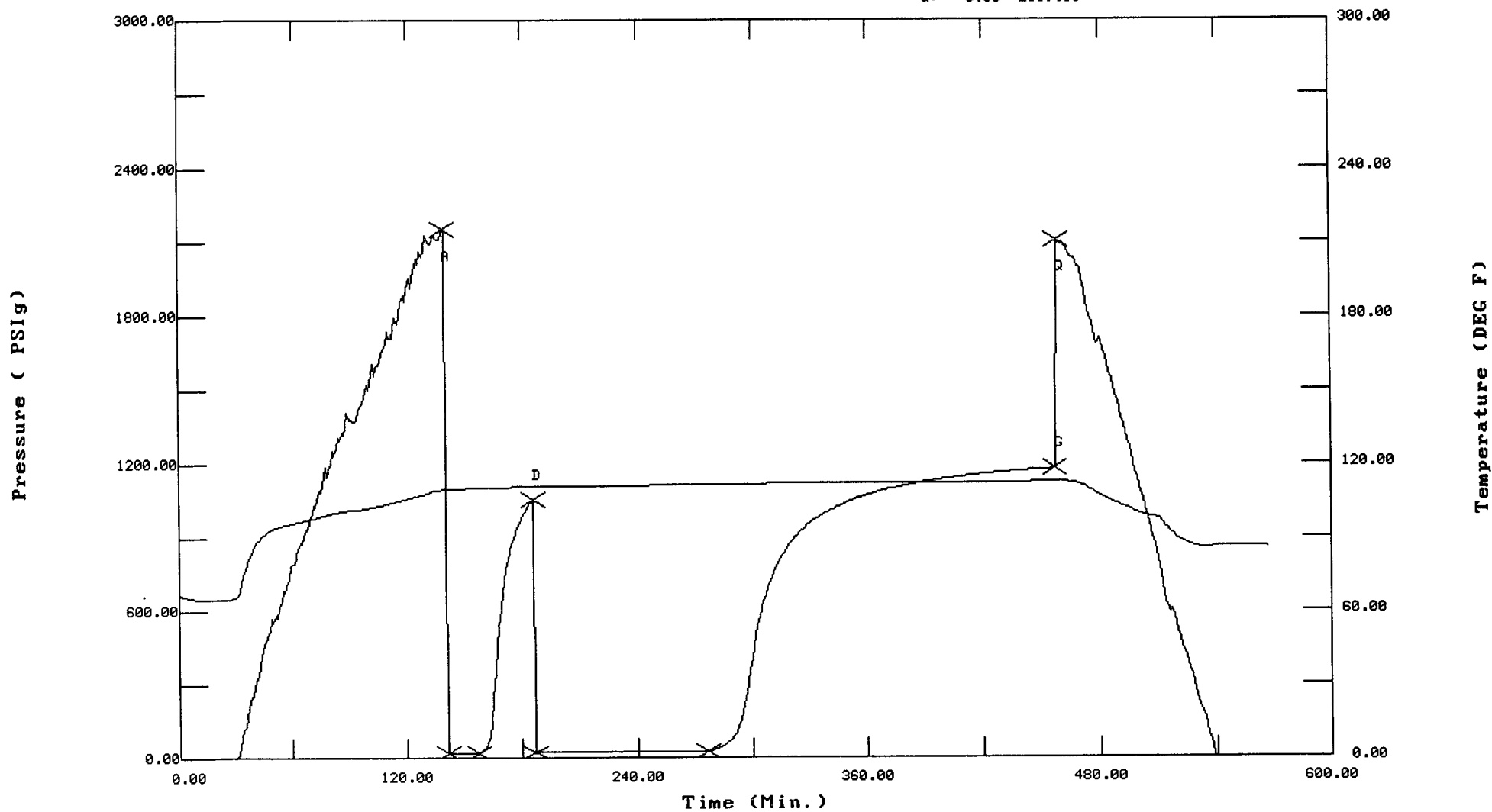
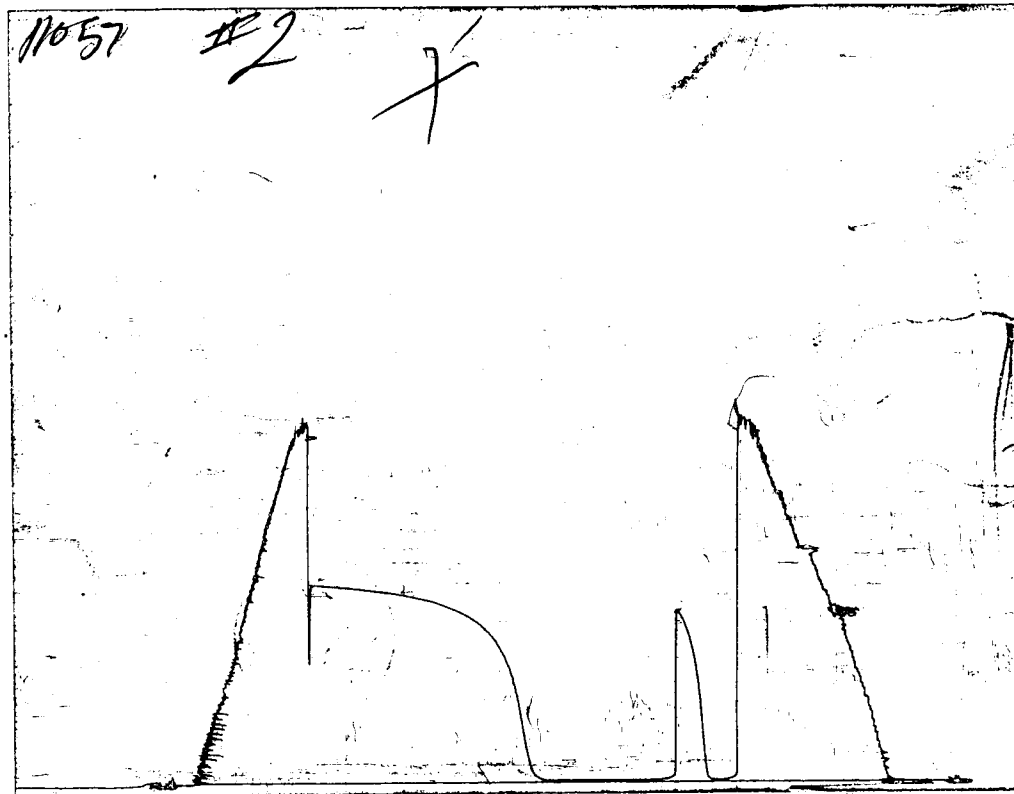


CHART PAGE



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

TRILOBITE TESTING L.L.C.

OPERATOR : Pennzoil Exploration
WELL NAME: Coy #2
LOCATION : 26-22-35
INTERVAL : 4642.00 To 4682.00 ft

DATE 6-27-97
KB 3029.00 ft TICKET NO: 9950 DST #3
GR 3024.00 ft FORMATION: Atoka
TD 4682.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11057	11057	2342			PF Fr. 1443 to 1458 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1458 to 1528 hr
SF 30 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 1528 to 1558 hr
FS 60 Depth(ft)	4677.0	4677.0	4648.0	0.0	0.0	FS Fr. 1558 to 1658 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	2282.0	2259.0	0.0	0.0	T STARTED 1230 hr
B. First Flow	0.0	56.0	17.0	0.0	0.0	T ON BOTM 1440 hr
B1. Final Flow	0.0	29.0	18.0	0.0	0.0	T OPEN 1443 hr
C. In Shut-in	0.0	29.0	21.0	0.0	0.0	T PULLED 1658 hr
D. Init Flow	0.0	29.0	18.0	0.0	0.0	T OUT 1910 hr
E. Final Flow	0.0	29.0	19.0	0.0	0.0	
F. Fl Shut-in	0.0	29.0	23.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	2207.0	2218.0	0.0	0.0	Tool Wt. 4000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 72000.00 lbs
						Initial Str Wt 59000.00 lbs
						Unseated Str Wt 59000.00 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 0.00 ft
						D.P. Length 4353.00 ft
						H.W. I.D 2.70 in
						H.W. Length 286.00 ft

RECOVERY

Tot Fluid 1.00 ft of 0.00 ft in DC and 1.00 ft in DP
1.00 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 3100.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial flow-

Weak blow died in 3 minutes

Final flow-

Bubble to open tool--no blow

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	45.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	112.00 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.	Ron Osterbuhr
Contr.	Abercrombie
Rig #	4
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Coy #2

LOCATION : 26-22-35

TICKET No. 9950 D.S.T. No. 3 DATE 6-27-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 25

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 40

TOTAL TOOL 65

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 65

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands74 Single 1 Total 4649

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4704

TOTAL DEPTH 4682

TOTAL DRILL PIPE ABOVE K.B. 22

REMARKS:

gas;

oil;

water;

mud; 4,000 ml.

pressure; 0 psi

total; 4,000 ml.

Chlorides in sampler 3,100 RW 1.4 @ 92°F

P.O. SUB

C.O. SUB 1' 4617

S.I. TOOL 5' 4623

sampler 3' 4626

HMV 5' 4631

JARS

SAFETY JOINT 2' 4533

PACKER top 4637

PACKER bottom 4642

DEPTH 4642

STUBB 1' 4643

ANCHOR 5' perf 4648

Alpine rec. @ 4648

29' perf 4677

Ak-1 rec. @ 4677

T.C.
DEPTH

BULLNOSE 5' bullplug 4682

T.D. 4682

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9950 DST #3 Coy #2 Pennzoil Prod. Co.

DATE: 06/27/97 TIME: 11:33:18

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	134.00	2259.2	0.0	109.81		
***** Start Flow 1	0.00	17.4	0.0	109.87		
	1.00	17.5	0.2	109.95		
	2.00	17.5	0.2	109.99		
	3.00	17.6	0.3	110.02		
	4.00	17.6	0.3	110.04		
	5.00	17.8	0.4	110.06		
	6.00	17.8	0.4	110.08		
	7.00	17.8	0.4	110.10		
	8.00	17.8	0.4	110.12		
	9.00	17.8	0.4	110.15		
	10.00	17.9	0.5	110.17		
	11.00	17.9	0.5	110.20		
	12.00	17.9	0.5	110.22		
	13.00	17.9	0.5	110.25		
***** End Flow 1	14.00	17.9	0.5	110.27		
***** Start Shutin 1	0.00	17.9	0.0	110.27	0.0000	0.000
	1.00	17.3	-0.6	110.29	15.0000	0.000
	2.00	17.4	-0.4	110.32	8.0000	0.000
	3.00	17.7	-0.2	110.34	5.6667	0.000
	4.00	17.9	-0.0	110.37	4.5000	0.000
	5.00	18.0	0.2	110.39	3.8000	0.000
	6.00	18.2	0.3	110.42	3.3333	0.000
	7.00	18.3	0.4	110.45	3.0000	0.000
	8.00	18.5	0.6	110.47	2.7500	0.000
	9.00	18.6	0.8	110.50	2.5556	0.000
	10.00	18.8	0.9	110.52	2.4000	0.000
	11.00	18.9	1.0	110.54	2.2727	0.000
	12.00	19.0	1.2	110.57	2.1667	0.000
	13.00	19.2	1.3	110.60	2.0769	0.000
	14.00	19.4	1.5	110.62	2.0000	0.000
	15.00	19.5	1.6	110.64	1.9333	0.000
	16.00	19.5	1.6	110.67	1.8750	0.000
	17.00	19.6	1.8	110.69	1.8235	0.000
	18.00	19.8	1.9	110.72	1.7778	0.000
	19.00	19.9	2.0	110.74	1.7368	0.000
	20.00	20.1	2.2	110.77	1.7000	0.000
	21.00	20.2	2.3	110.79	1.6667	0.000
	22.00	20.3	2.4	110.81	1.6364	0.000
	23.00	20.5	2.6	110.83	1.6087	0.000
	24.00	20.6	2.7	110.86	1.5833	0.000
	25.00	20.7	2.9	110.88	1.5600	0.000
	26.00	20.7	2.9	110.90	1.5385	0.000
	27.00	20.9	3.0	110.92	1.5185	0.000
	28.00	21.1	3.2	110.94	1.5000	0.000
	29.00	21.1	3.3	110.97	1.4828	0.000
***** End Shut-in 1	30.00	21.2	3.4	110.99	1.4667	0.000
***** Start Flow 2	0.00	18.5	0.0	111.01		
	1.00	18.5	0.0	111.03		
	2.00	18.5	0.0	111.06		
	3.00	18.5	0.0	111.08		

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9950 DST #3 Coy #2 Pennzoil Prod. Co.

DATE: 06/27/97

TIME: 11:33:18

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	4.00	18.5	0.0	111.09		
	5.00	18.5	0.0	111.11		
	6.00	18.5	0.0	111.14		
	7.00	18.5	0.0	111.16		
	8.00	18.5	0.0	111.18		
	9.00	18.5	0.0	111.20		
	10.00	18.5	0.0	111.22		
	11.00	18.5	0.0	111.23		
	12.00	18.5	0.0	111.26		
	13.00	18.5	0.0	111.27		
	14.00	18.5	0.0	111.30		
	15.00	18.5	0.0	111.31		
	16.00	18.5	0.0	111.33		
	17.00	18.5	0.1	111.35		
	18.00	18.5	0.1	111.37		
	19.00	18.5	0.1	111.39		
	20.00	18.5	0.1	111.41		
	21.00	18.5	0.1	111.43		
	22.00	18.5	0.1	111.44		
	23.00	18.5	0.1	111.46		
	24.00	18.5	0.1	111.47		
	25.00	18.5	0.1	111.49		
	26.00	18.5	0.1	111.51		
	27.00	18.6	0.2	111.53		
	28.00	18.6	0.2	111.55		
	29.00	18.6	0.2	111.56		
***** End Flow 2	30.00	18.6	0.2	111.58		
***** Start Shutin 2	0.00	18.6	0.0	111.58	0.0000	0.000
	1.00	18.0	-0.7	111.60	45.0000	0.000
	2.00	18.1	-0.5	111.61	23.0000	0.000
	3.00	18.3	-0.3	111.63	15.6667	0.000
	4.00	18.4	-0.3	111.64	12.0000	0.000
	5.00	18.5	-0.2	111.66	9.8000	0.000
	6.00	18.5	-0.2	111.68	8.3333	0.000
	7.00	18.5	-0.1	111.69	7.2857	0.000
	8.00	18.7	0.1	111.71	6.5000	0.000
	9.00	18.8	0.2	111.73	5.8889	0.000
	10.00	19.0	0.3	111.74	5.4000	0.000
	11.00	19.0	0.3	111.75	5.0000	0.000
	12.00	19.1	0.5	111.77	4.6667	0.000
	13.00	19.1	0.5	111.79	4.3846	0.000
	14.00	19.2	0.6	111.80	4.1429	0.000
	15.00	19.3	0.7	111.82	3.9333	0.000
	16.00	19.5	0.8	111.84	3.7500	0.000
	17.00	19.5	0.9	111.84	3.5882	0.000
	18.00	19.5	0.9	111.86	3.4444	0.000
	19.00	19.6	1.0	111.88	3.3158	0.000
	20.00	19.8	1.2	111.90	3.2000	0.000
	21.00	19.8	1.2	111.91	3.0952	0.000
	22.00	19.9	1.3	111.92	3.0000	0.000
	23.00	20.0	1.3	111.94	2.9130	0.000

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9950 DST #3 Coy #2 Pennzoil Prod. Co.

DATE: 06/27/97 TIME: 11:33:18

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	24.00	20.1	1.4	111.95	2.8333	0.000
	25.00	20.1	1.5	111.97	2.7600	0.000
	26.00	20.3	1.7	111.98	2.6923	0.000
	27.00	20.4	1.8	111.99	2.6296	0.000
	28.00	20.5	1.8	112.01	2.5714	0.000
	29.00	20.6	1.9	112.02	2.5172	0.000
	30.00	20.6	2.0	112.04	2.4667	0.000
	31.00	20.7	2.1	112.05	2.4194	0.000
	32.00	20.8	2.2	112.07	2.3750	0.000
	33.00	20.9	2.3	112.08	2.3333	0.000
	34.00	21.0	2.3	112.09	2.2941	0.000
	35.00	21.1	2.4	112.10	2.2571	0.000
	36.00	21.1	2.5	112.11	2.2222	0.000
	37.00	21.2	2.6	112.13	2.1892	0.000
	38.00	21.4	2.8	112.14	2.1579	0.000
	39.00	21.5	2.9	112.16	2.1282	0.000
	40.00	21.5	2.9	112.17	2.1000	0.000
	41.00	21.6	3.0	112.18	2.0732	0.000
	42.00	21.6	3.0	112.19	2.0476	0.000
	43.00	21.7	3.1	112.21	2.0233	0.000
	44.00	21.9	3.3	112.22	2.0000	0.000
	45.00	22.0	3.4	112.23	1.9778	0.000
	46.00	22.0	3.4	112.24	1.9565	0.000
	47.00	22.1	3.5	112.25	1.9362	0.000
	48.00	22.2	3.6	112.27	1.9167	0.000
	49.00	22.3	3.7	112.28	1.8980	0.000
	50.00	22.3	3.7	112.29	1.8800	0.000
	51.00	22.4	3.8	112.30	1.8627	0.001
	52.00	22.6	3.9	112.32	1.8462	0.001
	53.00	22.7	4.0	112.33	1.8302	0.001
	54.00	22.8	4.2	112.34	1.8148	0.001
	55.00	23.0	4.4	112.35	1.8000	0.001
	56.00	23.0	4.4	112.36	1.7857	0.001
	57.00	23.1	4.4	112.38	1.7719	0.001
	58.00	23.2	4.6	112.39	1.7586	0.001
	59.00	23.4	4.8	112.41	1.7458	0.001
***** End Shut-in 2	60.00	23.3	4.7	112.41	1.7333	0.001
***** Final Hydro.	272.00	2218.0	0.0	112.64		

TEST HISTORY

9950 DST #3 Coy #2 Pennzoil Prod. Co.

Flag Points
t(Min.) P(PSig)

A: 0.00 2259.16
B: 0.00 17.36
C: 14.00 17.87
D: 30.00 21.23
E: 0.00 18.46
F: 30.00 18.63
G: 60.00 23.32
Q: 0.00 2218.04

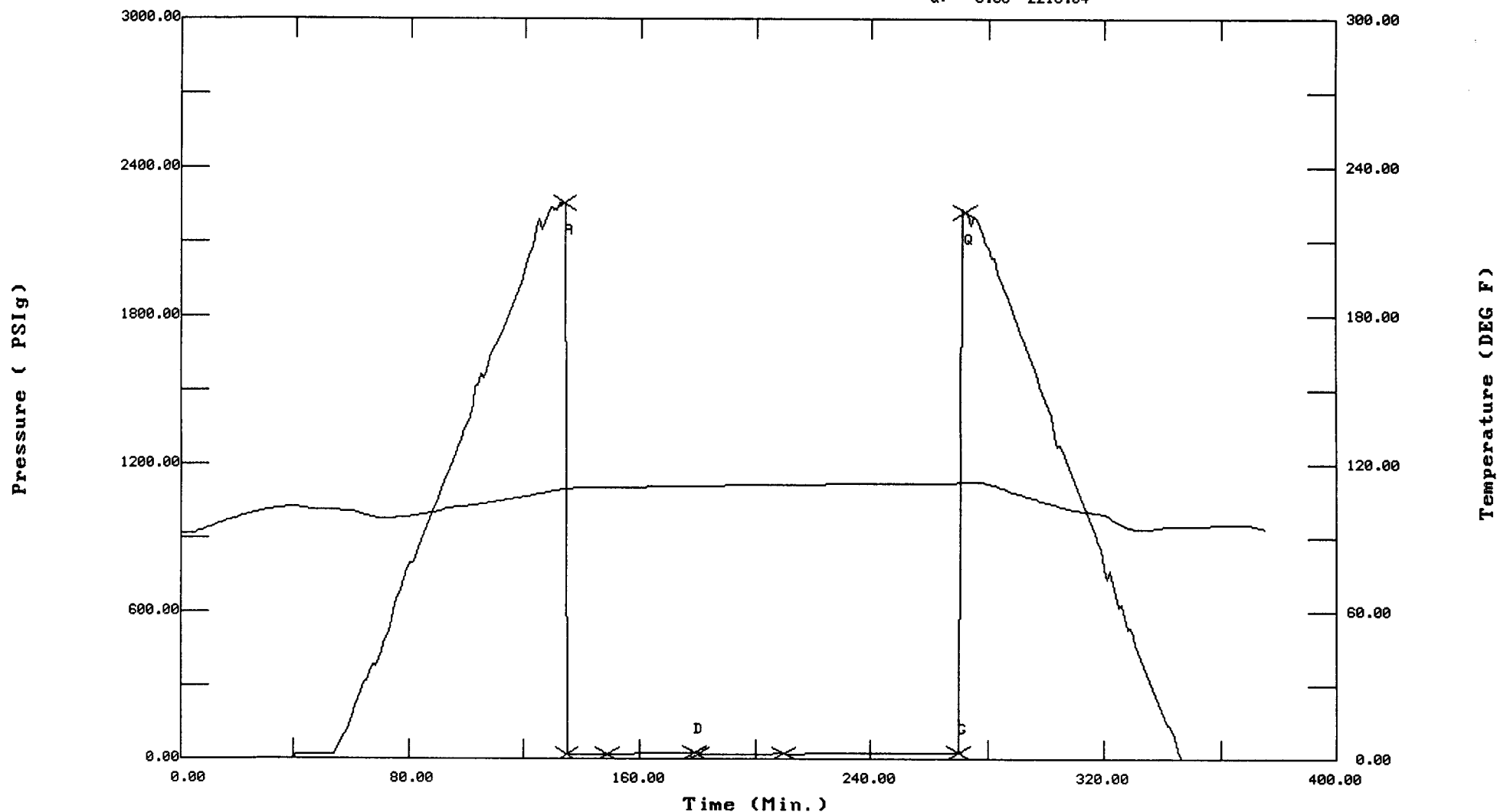
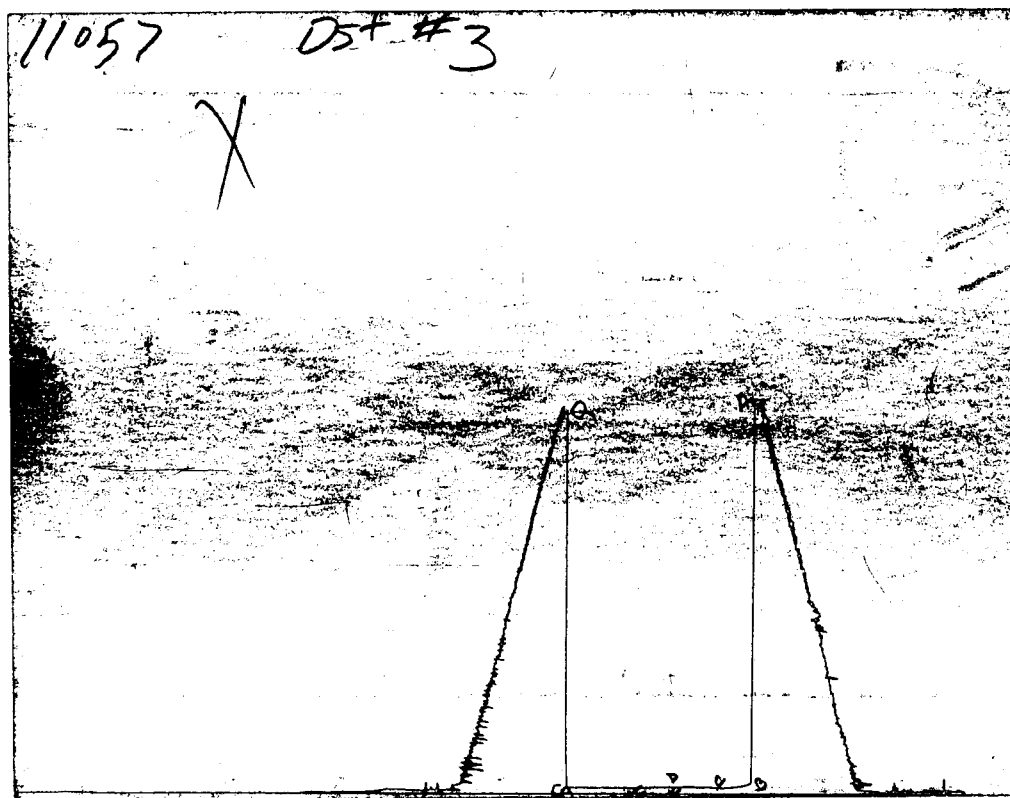


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9950 Date 6-27-97
Company Name Pennzoil Prod. Co.
Lease Cox #2 Test No. #3
County Kearney KS Sec. 26 Twp. 22 Rng. 35

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4,000 ML
Water _____ ML
Other _____ ML
Pressure _____ PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 3,000 ppm.
Resistivity 1.71 ohms @ 77 F
Viscosity 45
Mud Weight 9.1
Filtrate 9.6
Other LCM #1

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Pennzoil Exploration

DATE 6-28-97

WELL NAME: Coy #2

KB 3029.00 ft

TICKET NO: 9962

DST #4

LOCATION : 26-22-35

GR 3024.00 ft

FORMATION: Morrow

INTERVAL : 4780.00 To 4855.00 ft

TD 4855.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 0	Rec.	11057	11057	2342			PF Fr. to hr
SI 0	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. to hr
SF 0	Clock(hrs)	12 hr	12 hr	Elec			SF Fr. to hr
FS 0	Depth(ft)	4850.0	4850.0	4786.0	0.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	0.0	0.0	0.0	T STARTED 1424 hr
B. First Flow	0.0	0.0	0.0	0.0	0.0	T ON BOTM hr
B1. Final Flow	0.0	0.0	0.0	0.0	0.0	T OPEN hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	0.0	0.0	0.0	Tool Wt. 5000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 62000.00 lbs
						Unseated Str Wt 63000.00 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 0.00 ft
						D.P. Length 4508.00 ft
						H.W. I.D 2.70 in
						H.W. Length 286.00 ft

RECOVERY

Tot Fluid 200.00 ft of 0.00 ft in DC and 200.00 ft in DP

200.00 ft of Drilling Mud

0.00 ft of

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SALINITY 4700.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Packer failure at open, treid to
reset - pull tool

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	45.00 S/L
W.L.	10.40 in3
F.C.	0.00 in
Mud Drop Y	200.0 ft

Amt. of fill	0.00 ft
Btm. H. Temp.	111.00 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.	Paul Yowell
Contr.	Abercrombie
Rig #	4
Unit #	
Pump T.	

Test Successful: N

*** TOOL DIAGRAM *** CONV.

WELL NAME: Coy #2	P.O. SUB	
	C.O. SUB 1'	4750
LOCATION : 26-22-35	S.I. TOOL 5'	4756
TICKET No. 9962 D.S.T. No. 4 DATE 6-28-97	sampler 3'	4759
TOTAL TOOL TO BOTTOM OF TOP PACKERS 60		
INTERVAL TOOL	HMV 5'	4764
BOTTOM PACKERS AND ANCHOR 43	JARS 5'	4769
TOTAL TOOL 73		
DRILL COLLAR ANCHOR IN INTERVAL		
D.C. ANCHOR STND.Stands Single Total	SAFETY JOINT 2'	4771
D.P. ANCHOR STND.Stands Single 1 Total 32	PACKER top	4775
TOTAL ASSEMBLY 105	PACKER bottom	4780
D.C. ABOVE TOOLS.Stands Single Total	DEPTH 4780	
D.P. ABOVE TOOLS.Stands77 Single Total 4783	STUBB 1'	4781
TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4888	ANCHOR 5' perf	4786
	Alpine rec. @ 4786	
	30' perf	4816
TOTAL DEPTH 4855	1' c.o.	4817
TOTAL DRILL PIPE ABOVE K.B. 33	32' w.p.	4849
REMARKS:		
GAS;		
OIL;		
WATER;	T.C.	
MUD; 4,000 ML	DEPTH	
PRESSURE; 0 PSI		
Total; 4,000 ml		
	1' c.o.	4850
	Ak-1 rec. @ 4850	
	BULLNOSE 5' bullplug	4855
	T.D.	4855

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9962 DST #4 Coy #2 Pennzoil Prod. Co

DATE: 06/28/97 TIME: 13:28:30

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	134.00	2337.2	0.0	111.60		
***** Start Flow 1	0.00	2325.4	0.0	112.52		
***** End Flow 1	1.00	2316.7	-8.7	112.73		
***** End Shut-in 1	143.00	2316.7	0.0	112.73	0.0070	5.367
***** Final Hydro.	142.00	2316.7	0.0	112.73		

TEST HISTORY

9962 DST #4 Coy #2 Pennzoil Prod. Co

Flag Points
t(Min.) P(PSig)

A: 0.00 2337.21

Q: 0.00 2325.38

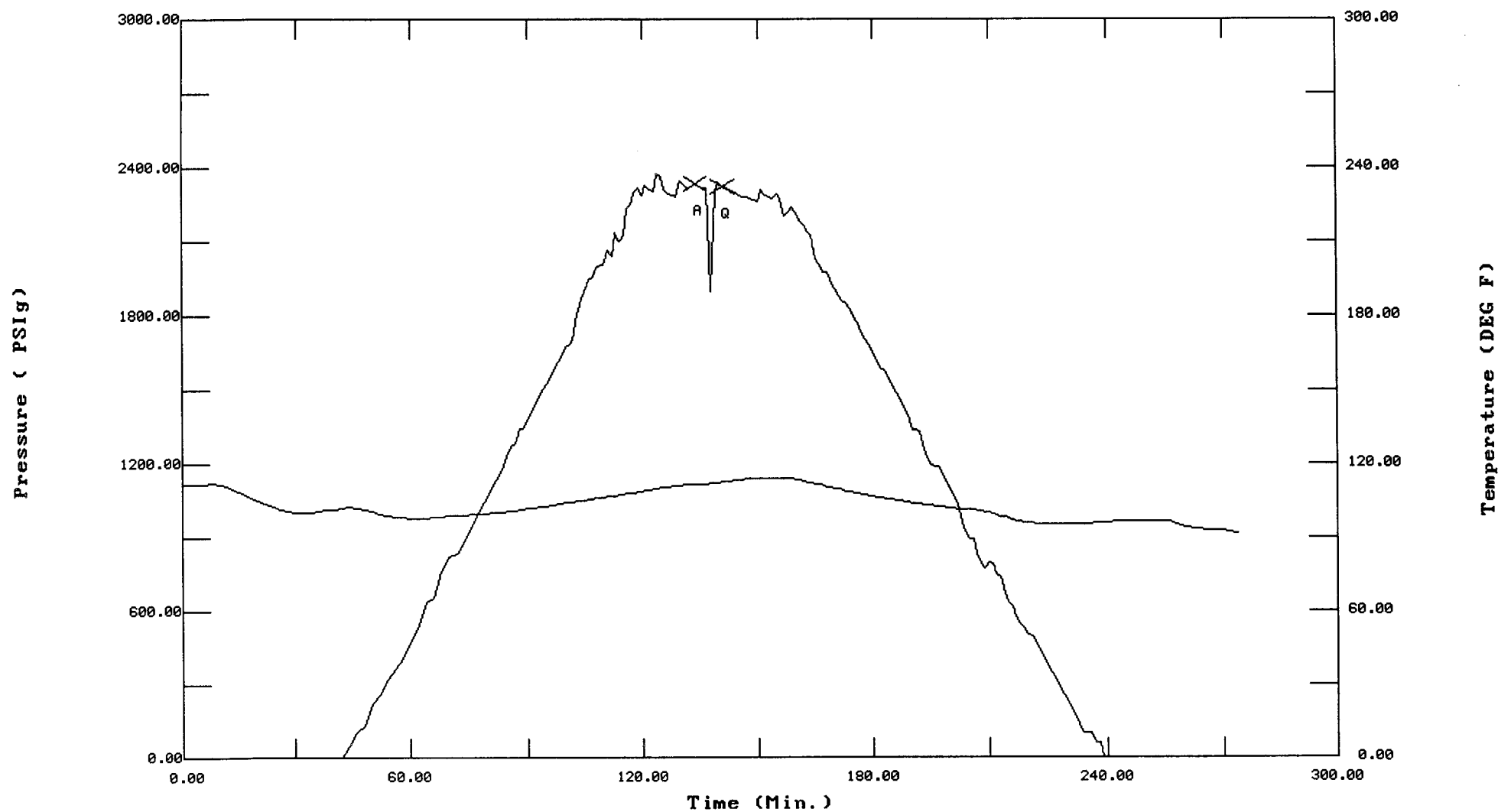


CHART PAGE



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 9962

Well Name & No. <u>Cox #2</u>	Test No. <u>4</u>	Date <u>6-28-97</u>
Company <u>Pennzoil Prod. Co.</u>	Zone Tested <u>morrow</u>	
Address <u>50090 Milland, Tx</u>	Elevation <u>3029'</u> KB <u>3024'</u> GL	
Co. Rep / Geo. <u>Paul Kelly B. Stout</u>	Cont. <u>Abercrombie #4</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u> Twp. <u>22</u> Rge. <u>35</u> Co. <u>Kearney</u> State <u>Ks</u>		
No. of Copies <u>Norm</u> Distribution Sheet (Y, N) <u>N</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested <u>4780'</u>	<u>4855'</u>	Initial Str Wt./Lbs. <u>62000</u>	Unseated Str Wt./Lbs. <u>63000</u>
Anchor Length <u>75'</u>		Wt. Set Lbs. <u>24,000</u>	Wt. Pulled Loose/Lbs. <u>80,000</u>
Top Packer Depth <u>4775'</u>		Tool Weight <u>5,000</u>	
Bottom Packer Depth <u>4780'</u>		Hole Size — 7 7/8" <u>✓</u>	Rubber Size — 6 3/4" <u>✓</u>
Total Depth <u>4855'</u>		Wt. Pipe Run <u>286'</u>	Drill Collar Run <u> </u>
Mud Wt. <u>9.2</u> LBM # <u>7</u> Vis. <u>45</u> WL <u>9.6</u>		Drill Pipe Size <u>4 1/2 X 14</u>	Ft. Run <u>4508'</u>
Blow Description <u>Packer failure @ open. Tried to reset - pull</u>			
<u>Tool</u>			

Recovery — Total Feet <u>200'</u>	GIP <u> </u>	Ft. in DC <u> </u>	Ft. in DP <u>200'</u>
Rec. <u>200'</u>	Feet Of <u>Drilling mud</u>	%gas <u> </u>	%oil <u> </u> %water <u>100</u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>
Rec. <u> </u>	Feet Of <u> </u>	%gas <u> </u>	%oil <u> </u> %water <u> </u> %mud <u> </u>

BHT <u>111°</u>	°F Gravity <u> </u>	°API D@ <u> </u>	°F Corrected Gravity <u> </u>	°API <u> </u>
RW <u> </u>	@ <u> </u>	°F Chlorides <u> </u>	ppm Recovery Chlorides <u>4,700</u>	ppm System <u> </u>

(A) Initial Hydrostatic Mud <u> </u>	PSI Recorder No. <u>2342</u>	T-Started <u>14:24 P.M.</u>
(B) First Initial Flow Pressure <u> </u>	PSI (depth) <u>4786'</u>	T-Open <u>16:20 P.M.</u>
(C) First Final Flow Pressure <u> </u>	PSI Recorder No. <u>11057</u>	T-Pulled <u>16:35 P.M.</u>
(D) Initial Shut-in Pressure <u> </u>	PSI (depth) <u>4850</u>	T-Out <u>18:40 P.M.</u>
(E) Second Initial Flow Pressure <u> </u>	PSI Recorder No. <u> </u>	
(F) Second Final Flow Pressure <u> </u>	PSI (depth) <u> </u>	
(G) Final Shut-in Pressure <u> </u>	PSI Initial Opening <u> </u>	Test <u>X</u> <u>500</u>
(H) Final Hydrostatic Mud <u> </u>	PSI Initial Shut-in <u> </u>	Jars <u>X</u> <u>200</u>

AK-1 Alpine

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.

Final Flow <u> </u>	Safety Joint <u>X</u> <u>50</u>
Final Shut-in <u> </u>	Straddle <u> </u>
<u>Packer failure</u>	Circ. Sub <u>X</u> <u>N/C</u>
<u>Open</u>	Sampler <u>X</u> <u>200 n/c</u>
<u>(Packed Inner Packer)</u>	Extra Packer <u> </u>
	Elect. Rec. <u>X</u> <u>150</u>
	Other <u> </u>
	TOTAL PRICE \$ <u>900</u>

Approved By [Signature]

Our Representative [Signature]

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9962 Date 6-28-97
Company Name Pendzot Prod. Co.
Lease Cox #2 Test No. #4
County Kearney, Ks Sec. 26 Twp. 22 Rng. 35

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4,000 ML
Water _____ ML
Other _____ ML
Pressure 0 PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 4,700 ppm.
Resistivity 1.08 ohms @ 85 F
Viscosity 45
Mud Weight 9.2
Filtrate 10.4
Other LCM #1

SAMPLER ANALYSIS

Resistivity 1.2 ohms @ 75 F
Chlorides 4,800 ppm.
Gravity _____ corrected @ 60 F

Packer failure @ open.

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Pennzoil Prod. Co.

DATE 6-28-97

WELL NAME: Coy #2

KB 3029.00 ft

TICKET NO: 9963

DST #5

LOCATION : 26-22-35

GR 3024.00 ft

FORMATION: Morrow

INTERVAL : 4680.00 To 4855.00 ft

TD 4855.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	11057	11057	2342			PF Fr. 2055 to 2110 hr
SI 30 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 2110 to 2140 hr
SF 35 Clock(hrs)	12 hr	12 hr	Elec			SF Fr. 2140 to 2215 hr
FS 90 Depth(ft)	4850.0	4850.0	4689.0	0.0	0.0	FS Fr. 2215 to 2345 hr

	Field	1	2	3	4	
A. Init Hydro	2400.0	2371.0	2294.0	0.0	0.0	T STARTED 1910 hr
B. First Flow	145.0	130.0	42.0	0.0	0.0	T ON BOTM 2051 hr
B1. Final Flow	145.0	139.0	47.0	0.0	0.0	T OPEN 2055 hr
C. In Shut-in	482.0	474.0	423.0	0.0	0.0	T PULLED 2345 hr
D. Init Flow	157.0	148.0	49.0	0.0	0.0	T OUT 0255 hr
E. Final Flow	157.0	146.0	52.0	0.0	0.0	
F. Fl Shut-in	794.0	1006.0	736.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2366.0	2321.0	2236.0	0.0	0.0	Tool Wt. 6000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 26000.00 lbs
						Wt Pulled Loose 82000.00 lbs
						Initial Str Wt 62000.00 lbs
						Unseated Str Wt 62000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 4569.00 ft
						H.W. I.D 2.70 in
						H.W. Length 286.00 ft

RECOVERY

Tot Fluid 40.00 ft of 0.00 ft in DC and 40.00 ft in DP
 40.00 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 4800.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 2" blow at open, died back to 1/2"

Initial Shut In:
 Bled off blow - no return

Final Flow:
 No blow

Final Shut In:
 No return

SAMPLES:
 SENT TO:

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 45.00 S/L
 W.L. 10.40 in3
 F.C. 0.00 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 113.00 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. Paul Yowell
 Contr. Abercrombie
 Rig # 4
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Coy #2

LOCATION : 26-22-35

PICKET No. 9963 D.S.T. No. 5 DATE 6-28-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 15

TOTAL TOOL 45

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 2 Single 1 Total 160

TOTAL ASSEMBLY 205

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands 75 Single Total 4665

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4870

TOTAL DEPTH 4855

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:

gas;

oil;

water;

mud; 4,000 ml.

pressure; 120 psi.

total; 4,000 ml.

Chlorides in sampler 4,800 RW 1.2 @ 75°F

P.O. SUB	
C.O. SUB 1'	4650
S.I. TOOL 5'	4656
sampler 3'	4659
HMV 5'	4664
JARS 5'	4669
SAFETY JOINT 2'	4671
PACKER top	4675
PACKER bottom	4680
DEPTH 4680	
STUBB 1'	4681
ANCHOR 7' perf	4688
1' c.o.	4689
Alpine rec. @ 4689	
160' w.p.	4849
1' c.o.	4850
T.C.	
DEPTH	
Ak-1 rec. @ 4850	
BULLNOSE 5' bullplug	4855
T.D.	4855

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9963 DST #5 Coy #2 Pennzoil Prod.Co.

DATE: 06/28/97 TIME: 19:10:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	96.00	2294.4	0.0	108.72		
***** Start Flow 1	0.00	42.0	0.0	109.00		
	1.00	45.8	3.8	109.02		
	2.00	46.4	4.4	109.02		
	3.00	46.2	4.1	109.03		
	4.00	47.1	5.0	109.04		
	5.00	47.9	5.9	109.06		
	6.00	47.8	5.8	109.11		
	7.00	47.6	5.5	109.16		
	8.00	47.2	5.2	109.23		
	9.00	47.5	5.5	109.30		
	10.00	47.2	5.2	109.36		
	11.00	48.1	6.0	109.43		
	12.00	47.5	5.5	109.49		
***** End Flow 1	13.00	47.7	5.6	109.56		
***** Start Shutin 1	0.00	47.7	0.0	109.56	0.0000	0.002
	1.00	49.3	1.7	109.61	14.0000	0.002
	2.00	46.4	-1.3	109.68	7.5000	0.002
	3.00	51.9	4.3	109.74	5.3333	0.003
	4.00	63.7	16.0	109.80	4.2500	0.004
	5.00	76.5	28.9	109.87	3.6000	0.006
	6.00	79.8	32.1	109.92	3.1667	0.006
	7.00	202.3	154.6	109.99	2.8571	0.041
	8.00	204.8	157.1	110.07	2.6250	0.042
	9.00	225.8	178.2	110.13	2.4444	0.051
	10.00	249.8	202.2	110.19	2.3000	0.062
	11.00	251.9	204.3	110.25	2.1818	0.063
	12.00	288.3	240.6	110.31	2.0833	0.083
	13.00	295.4	247.8	110.36	2.0000	0.087
	14.00	304.5	256.8	110.41	1.9286	0.093
	15.00	330.8	283.1	110.47	1.8667	0.109
	16.00	333.2	285.5	110.52	1.8125	0.111
	17.00	341.3	293.7	110.57	1.7647	0.117
	18.00	345.4	297.7	110.62	1.7222	0.119
	19.00	351.7	304.1	110.67	1.6842	0.124
	20.00	356.6	308.9	110.70	1.6500	0.127
	21.00	360.9	313.2	110.75	1.6190	0.130
	22.00	365.7	318.0	110.79	1.5909	0.134
	23.00	371.4	323.7	110.83	1.5652	0.138
	24.00	376.7	329.0	110.87	1.5417	0.142
	25.00	381.9	334.2	110.91	1.5200	0.146
	26.00	387.4	339.7	110.94	1.5000	0.150
	27.00	393.1	345.4	110.98	1.4815	0.155
	28.00	399.1	351.4	111.01	1.4643	0.159
	29.00	404.9	357.3	111.05	1.4483	0.164
	30.00	411.2	363.5	111.08	1.4333	0.169
	31.00	417.4	369.7	111.11	1.4194	0.174
***** End Shut-in 1	32.00	423.6	375.9	111.14	1.4062	0.179
***** Start Flow 2	0.00	49.9	0.0	111.16		
	1.00	50.1	0.2	111.17		
	2.00	51.4	1.4	111.18		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9963 DST #5 Coy #2 Pennzoil Prod.Co.

DATE: 06/28/97

TIME: 19:10:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	3.00	51.0	1.1	111.20		
	4.00	50.3	0.3	111.21		
	5.00	52.9	3.0	111.23		
	6.00	51.0	1.1	111.24		
	7.00	51.9	1.9	111.26		
	8.00	50.3	0.4	111.29		
	9.00	51.0	1.1	111.31		
	10.00	51.4	1.5	111.32		
	11.00	51.9	1.9	111.34		
	12.00	52.3	2.3	111.37		
	13.00	52.6	2.7	111.39		
	14.00	53.0	3.1	111.42		
	15.00	53.3	3.4	111.44		
	16.00	52.4	2.5	111.46		
	17.00	51.1	1.2	111.48		
	18.00	51.6	1.7	111.50		
	19.00	51.9	2.0	111.52		
	20.00	52.0	2.1	111.54		
	21.00	52.2	2.3	111.57		
	22.00	51.7	1.8	111.59		
	23.00	52.4	2.4	111.60		
	24.00	52.8	2.9	111.62		
	25.00	53.3	3.4	111.65		
	26.00	52.5	2.6	111.67		
	27.00	51.9	2.0	111.69		
	28.00	52.4	2.5	111.71		
	29.00	51.9	2.0	111.73		
	30.00	53.1	3.2	111.75		
	31.00	52.7	2.8	111.77		
	32.00	58.3	8.4	111.78		
	33.00	50.0	0.1	111.79		
	34.00	51.4	1.4	111.80		
	35.00	52.4	2.5	111.81		
***** End Flow 2	36.00	52.7	2.8	111.83		
***** Start Shutin 2	0.00	52.7	0.0	111.83	0.0000	0.003
	1.00	166.1	113.4	111.85	50.0000	0.028
	2.00	169.6	116.9	111.87	25.5000	0.029
	3.00	171.6	118.9	111.89	17.3333	0.029
	4.00	172.9	120.2	111.90	13.2500	0.030
	5.00	192.4	139.7	111.93	10.8000	0.037
	6.00	198.9	146.2	111.94	9.1667	0.040
	7.00	202.3	149.6	111.96	8.0000	0.041
	8.00	204.3	151.6	111.99	7.1250	0.042
	9.00	257.4	204.7	112.00	6.4444	0.066
	10.00	259.6	206.9	112.02	5.9000	0.067
	11.00	271.4	218.7	112.04	5.4545	0.074
	12.00	283.0	230.3	112.06	5.0833	0.080
	13.00	292.0	239.3	112.08	4.7692	0.085
	14.00	297.3	244.6	112.10	4.5000	0.088
	15.00	304.2	251.5	112.12	4.2667	0.093
	16.00	311.6	258.9	112.13	4.0625	0.097

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9963 DST #5 Coy #2 Pennzoil Prod.Co.

DATE: 06/28/97 TIME: 19:10:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
17.00	320.4	267.7	112.14	3.8824	0.103
18.00	327.9	275.2	112.16	3.7222	0.108
19.00	332.1	279.4	112.17	3.5789	0.110
20.00	343.1	290.4	112.19	3.4500	0.118
21.00	349.5	296.8	112.21	3.3333	0.122
22.00	353.6	300.9	112.22	3.2273	0.125
23.00	360.9	308.2	112.23	3.1304	0.130
24.00	364.0	311.3	112.25	3.0417	0.132
25.00	368.7	316.0	112.25	2.9600	0.136
26.00	372.5	319.8	112.28	2.8846	0.139
27.00	375.7	323.0	112.29	2.8148	0.141
28.00	379.4	326.7	112.30	2.7500	0.144
29.00	387.4	334.7	112.31	2.6897	0.150
30.00	391.4	338.7	112.32	2.6333	0.153
31.00	419.1	366.4	112.34	2.5806	0.176
32.00	421.1	368.4	112.35	2.5312	0.177
33.00	426.2	373.5	112.37	2.4848	0.182
34.00	432.4	379.7	112.38	2.4412	0.187
35.00	436.2	383.5	112.39	2.4000	0.190
36.00	440.0	387.3	112.41	2.3611	0.194
37.00	444.2	391.5	112.42	2.3243	0.197
38.00	448.0	395.3	112.43	2.2895	0.201
39.00	452.6	399.9	112.44	2.2564	0.205
40.00	456.6	403.9	112.45	2.2250	0.209
41.00	493.7	441.0	112.47	2.1951	0.244
42.00	506.7	454.0	112.48	2.1667	0.257
43.00	513.9	461.2	112.49	2.1395	0.264
44.00	520.3	467.6	112.51	2.1136	0.271
45.00	527.0	474.3	112.52	2.0889	0.278
46.00	533.4	480.7	112.53	2.0652	0.285
47.00	539.4	486.7	112.55	2.0426	0.291
48.00	545.7	493.0	112.56	2.0208	0.298
49.00	551.3	498.6	112.57	2.0000	0.304
50.00	557.5	504.8	112.58	1.9800	0.311
51.00	563.5	510.8	112.60	1.9608	0.318
52.00	569.1	516.4	112.61	1.9423	0.324
53.00	573.9	521.2	112.62	1.9245	0.329
54.00	577.8	525.1	112.63	1.9074	0.334
55.00	580.4	527.7	112.64	1.8909	0.337
56.00	583.8	531.1	112.65	1.8750	0.341
57.00	587.4	534.7	112.66	1.8596	0.345
58.00	592.4	539.7	112.67	1.8448	0.351
59.00	596.5	543.8	112.68	1.8305	0.356
60.00	600.8	548.1	112.69	1.8167	0.361
61.00	604.9	552.2	112.69	1.8033	0.366
62.00	609.3	556.6	112.71	1.7903	0.371
63.00	613.2	560.5	112.71	1.7778	0.376
64.00	617.1	564.4	112.73	1.7656	0.381
65.00	622.9	570.2	112.74	1.7538	0.388
66.00	648.3	595.6	112.75	1.7424	0.420
67.00	650.8	598.1	112.76	1.7313	0.423

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9963 DST #5 Coy #2 Pennzoil Prod.Co.

DATE: 06/28/97 TIME: 19:10:34

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	68.00	658.6	605.9	112.78	1.7206	0.434
	69.00	660.8	608.1	112.78	1.7101	0.437
	70.00	668.2	615.5	112.80	1.7000	0.447
	71.00	671.5	618.8	112.81	1.6901	0.451
	72.00	673.6	620.9	112.81	1.6806	0.454
	73.00	681.1	628.5	112.83	1.6712	0.464
	74.00	684.1	631.4	112.84	1.6622	0.468
	75.00	688.4	635.7	112.84	1.6533	0.474
	76.00	693.1	640.4	112.85	1.6447	0.480
	77.00	697.2	644.5	112.87	1.6364	0.486
	78.00	700.5	647.8	112.88	1.6282	0.491
	79.00	704.0	651.3	112.88	1.6203	0.496
	80.00	708.7	656.0	112.89	1.6125	0.502
	81.00	712.5	659.8	112.90	1.6049	0.508
	82.00	716.1	663.4	112.91	1.5976	0.513
	83.00	721.5	668.8	112.92	1.5904	0.521
	84.00	724.8	672.1	112.93	1.5833	0.525
	85.00	728.4	675.7	112.93	1.5765	0.531
	86.00	733.2	680.5	112.94	1.5698	0.538
***** End Shut-in 2	87.00	736.5	683.8	112.96	1.5632	0.542
***** Final Hydro.	271.00	2236.1	0.0	113.08		

TEST HISTORY

9963 DST #5 Coy #2 Pennzoil Prod.Co.

Flag Points
t(Min.) P(PSig)

A:	0.00	2294.41
B:	0.00	42.04
C:	13.00	47.66
D:	32.00	423.58
E:	0.00	49.93
F:	36.00	52.70
G:	87.00	736.46
Q:	0.00	2236.08

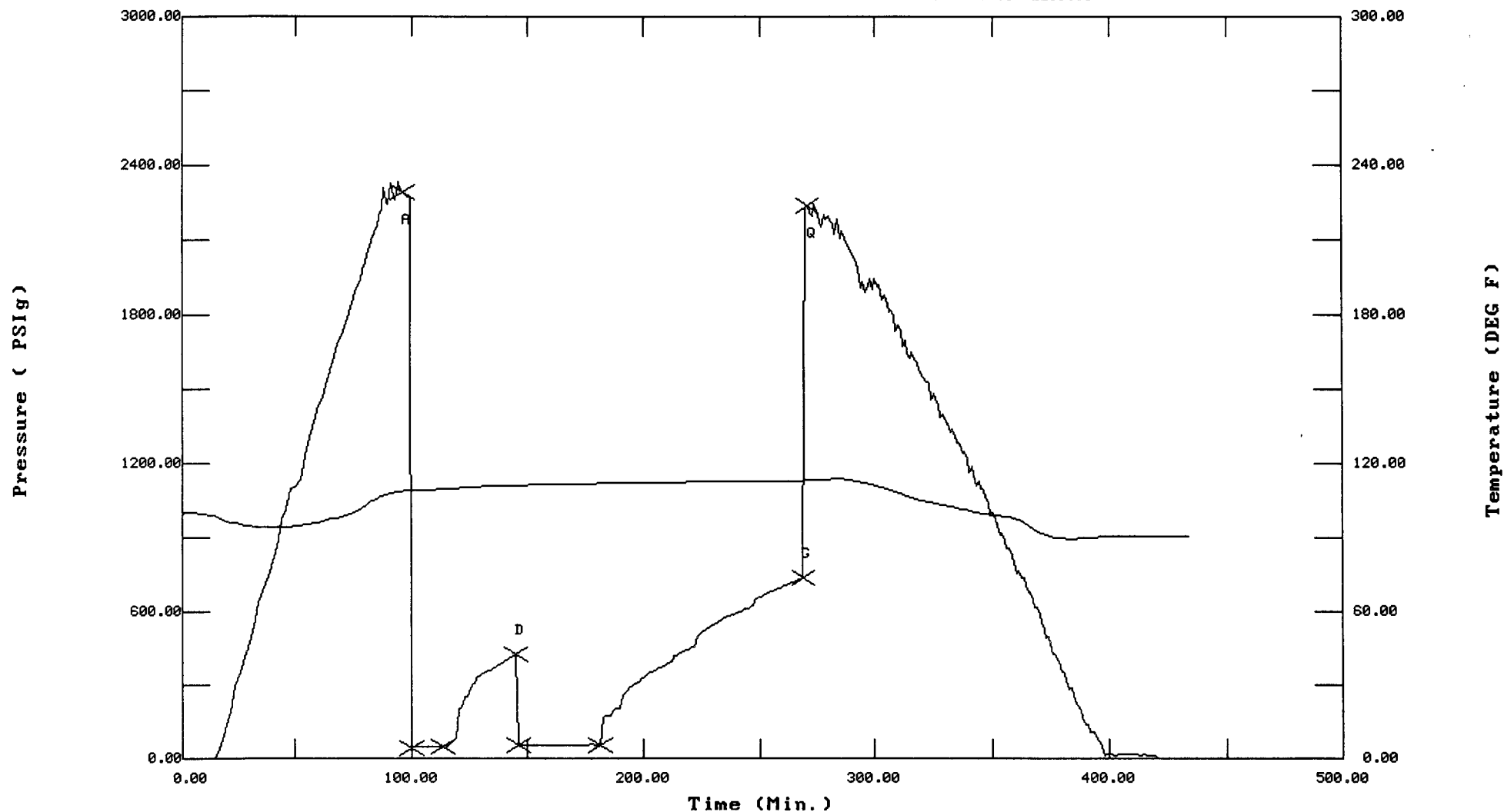
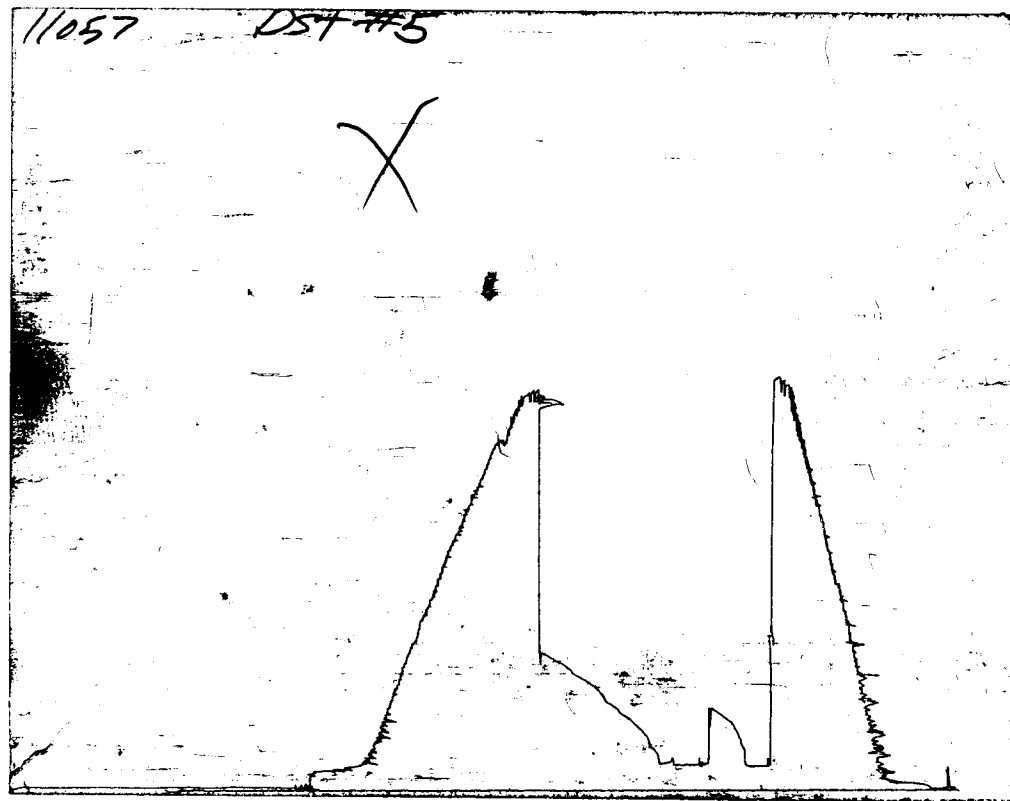


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9763 Date 6-28-97
Company Name Pennzoil Prod. Co.
Lease Coy #2 Test No. #5
County _____ Sec. 26 Twp. 22 Rng. 35

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4,000 ML
Water _____ ML
Other _____ ML
Pressure 20 PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 4,700 ppm.
Resistivity 1.08 ohms @ 75 F
Viscosity 45
Mud Weight 9.2
Filtrate 10.4
Other LCM #1

SAMPLER ANALYSIS

Resistivity 1.2 ohms @ 75 F
Chlorides 4,800 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity 1.2 ohms @ 75 F
Chlorides 4,800 ppm.

MIDDLE

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.