

**WELL NAME:** Herd #34-13  
**COMPANY:** Samuel Gary Jr. & Associates  
**LOCATION:** 39-32S-19W  
Comanche County, Kansas  
**DATE:** 6/4/98

TRILOBITE TESTING L.L.C.

OPERATOR : Samuel Gary Jr.& DATE 05/29/98  
 WELL NAME: Herd #34-13 KB 1935.00 ft TICKET NO: 10790 DST #1  
 LOCATION : 39-32s-19w Comanche KS GR 1922.00 ft FORMATION: Swope  
 INTERVAL : 4704.00 To 4726.00 ft TD 4726.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10332	10332	2350			PF Fr. 0108 to 0123 hr
SI 90 Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0123 to 0253 hr
SF 45 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 0253 to 0338 hr
FS 90 Depth(ft )	4723.0	4723.0	4710.0	0.0	0.0	FS Fr. 0338 to 0508 hr

	Field	1	2	3	4	
A. Init Hydro	2258.0	2253.0	2263.0	0.0	0.0	T STARTED 2239 hr
B. First Flow	304.0	300.0	248.0	0.0	0.0	T ON BOTM 0105 hr
B1. Final Flow	344.0	348.0	326.0	0.0	0.0	T OPEN 0108 hr
C. In Shut-in	1763.0	1775.0	1788.0	0.0	0.0	T PULLED 0508 hr
D. Init Flow	364.0	360.0	290.0	0.0	0.0	T OUT 0800 hr
E. Final Flow	476.0	480.0	470.0	0.0	0.0	
F. Fl Shut-in	1753.0	1763.0	1787.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2248.0	2232.0	2246.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 98000.00 lbs
						Initial Str Wt 72000.00 lbs
						Unseated Str Wt 77000.00 lbs

RECOVERY

Tot Fluid 672.00 ft of 236.00 ft in DC and 436.00 ft in DP  
 30.00 ft of Mud cut water 42% water 58% mud  
 642.00 ft of 100%water  
 4032.00 ft of Gas in pipe  
 0.00 ft of  
 SALINITY 80000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----  
 Tool Wt. 2100.00 lbs  
 Wt Set On Packer 20000.00 lbs  
 Wt Pulled Loose 98000.00 lbs  
 Initial Str Wt 72000.00 lbs  
 Unseated Str Wt 77000.00 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 236.00 ft  
 D.P. Length 4468.00 ft

BLOW DESCRIPTION

Initial Flow:  
 Strong blow bottom of bucket in  
 15 secs. Gas to surface  
 Initial Shut-in:  
 Bled down for 20 mins. blow back to  
 1.4"  
 Final Flow:  
 Strong blow bottom of bucket in  
 10-15 secs. Guage gas  
 Final Shut-in:  
 Bled down for 30 mins blow back to  
 1/2" in H2O bucket.

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.00 lb/c  
 Vis. 44.00 S/L  
 W.L. 12.40 in3  
 F.C. 0.32 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 119.00 F  
 Hole Condition good  
 % Porosity 0.00  
 Packer Size 6.75 in  
 No. of Packers 2  
 Cushion Amt. 0.00 n  
 Cushion Type none  
 Reversed Out N  
 Tool Chased N  
 Tester Darren Amerine  
 Co. Rep. Bill Padget  
 Contr. Duke  
 Rig # 7  
 Unit # none  
 Pump T. no

SAMPLES: Caraway Analytical, Liberal ks,  
 SENT TO:

Test Successful: Y

GAS RECOVERY

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COMPANY: Samuel Gary Jr. & DATE: 05/29/98  
 WELL NAME: Herd #34-13 KB Elev: 1935.00 ft TICKET #10790 DST #1  
 WELL LOCATION: 39-32s-19w Comanche KS GR Elev: 1922.00 ft FORMATION: Swope  
 INTERVAL Fr.: 4704.00 To 4726.00 T.D.: 4726.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.Choke

\*\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	13	0	303000.0
10	0.75	30	0	522000.0
12	0.75	45	0	697000.0

\*\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	45	0	697000.0
10	0.75	55	0	814000.0
15	0.75	60	0	872000.0
20	0.75	60	0	872000.0
25	0.75	60	0	872000.0
30	0.75	60	0	872000.0
35	0.75	60	0	872000.0
40	0.75	60	0	872000.0
45	0.75	60	0	872000.0

\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Herd #34-13

LOCATION : 39-32s-19w Comanche KS

TICKET No. 10790 D.S.T. No. 1 DATE 05/29/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 22

TOTAL TOOL ..... 52

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands4 Single Total 236

D.P. ABOVE TOOLS.Stands71 Single 1 Total 4468

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4756

TOTAL DEPTH ..... 4726

TOTAL DRILL PIPE ABOVE K.B. .... 29

REMARKS:

FLUID SAMPLER DATA  
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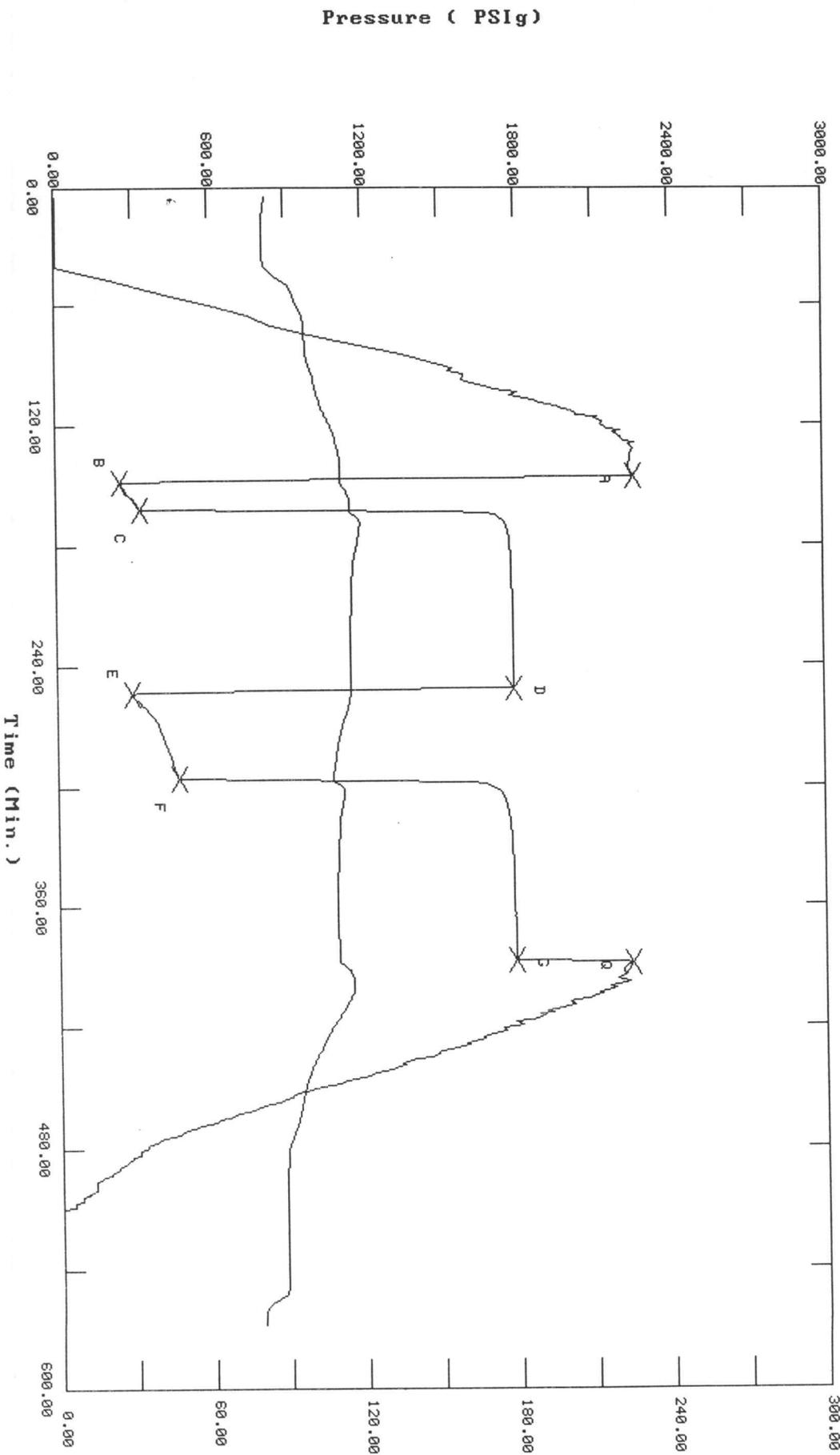
pit mud analysis	Sampler recovery
Clorides--7200-----ppm.	^^^^^^^^^^^^^^^^^^^^
Res..8--ohms@--80--F.	Gas---3.5 cu.ft
Vis--44-----	oil-----ML.
Mud weight--9.0-----	mud-----Ml.
Filtrate--12.4-----	water-----ML.
Other-----	other-----ML.
	pressure--500---Psi.
	total.---4000---Ml.

P.O. SUB	4674
C.O. SUB Top of tool @	4675
S.I. TOOL	4680
SAMPLER	4683
HMV	4688
JARS	4693
SAFETY JOINT	4695
PACKER	4699
PACKER	4704
DEPTH 4704	
STUBB 1'stubb to	4705
ANCHOR 5'perfs to	4710
Alpine rec.@ 4710	
T.C.	
DEPTH	
11'ofperfs.to	4710
Ak-1 rec.@4723	4721
BULLNOSE 5'Bullnose to	4726
T.D.	

**TEST HISTORY**  
 TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

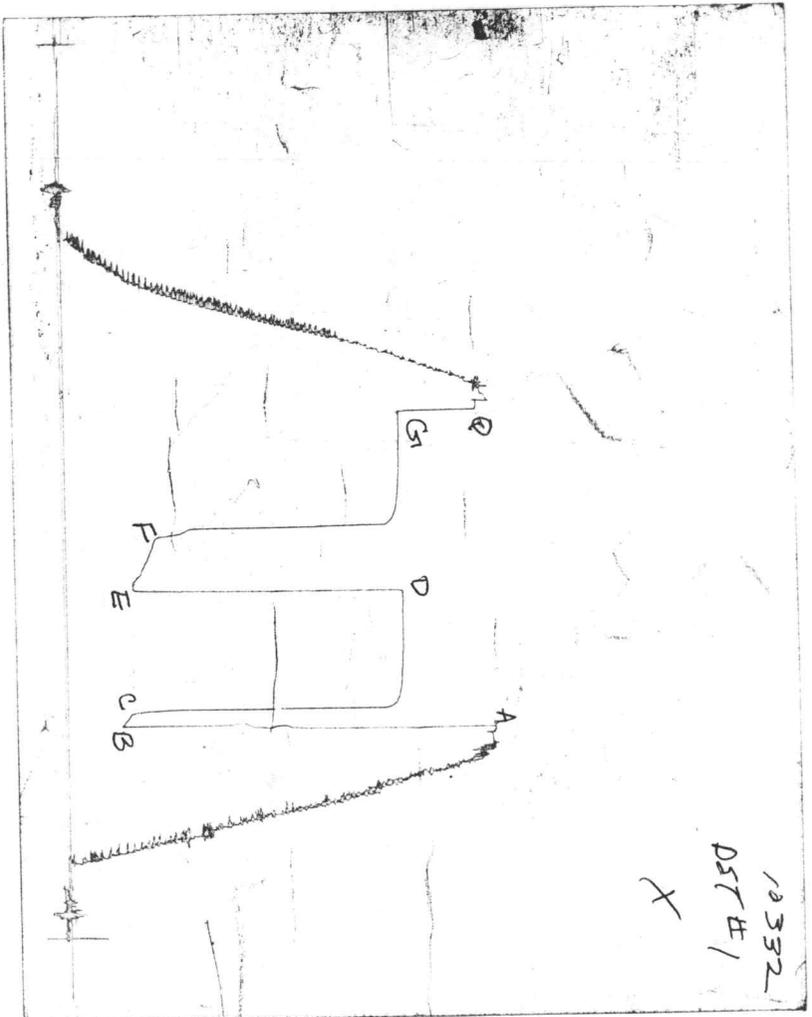
Flag Points

t (Min.)	P (PSig)
A: 0.00	2262.77
B: 0.00	248.33
C: 14.00	326.39
D: 90.00	1788.16
E: 0.00	290.21
F: 42.00	470.32
G: 91.00	1787.23
Q: 0.00	2245.65



Temperature (DEG F)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98 TIME: 22:41:00

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	146.00	2262.8	0.0	111.44		
***** Start Flow 1	0.00	248.3	0.0	111.51		
	1.00	252.2	3.9	111.77		
	2.00	253.8	5.5	112.19		
	3.00	265.3	17.0	112.72		
	4.00	263.5	15.2	113.27		
	5.00	269.1	20.7	113.73		
	6.00	278.9	30.5	114.10		
	7.00	284.3	35.9	114.38		
	8.00	292.6	44.2	114.62		
	9.00	303.6	55.2	114.83		
	10.00	306.4	58.1	114.97		
	11.00	310.5	62.2	115.04		
	12.00	315.2	66.9	115.08		
	13.00	321.4	73.1	115.12		
***** End Flow 1	14.00	326.4	78.1	115.12		
***** Start Shutin 1	0.00	326.4	0.0	115.12	0.0000	0.107
	1.00	1515.3	1188.9	115.15	15.0000	2.296
	2.00	1687.1	1360.7	115.86	8.0000	2.846
	3.00	1720.2	1393.8	117.10	5.6667	2.959
	4.00	1734.7	1408.3	118.10	4.5000	3.009
	5.00	1744.9	1418.5	118.68	3.8000	3.045
	6.00	1751.8	1425.4	118.99	3.3333	3.069
	7.00	1757.0	1430.6	119.11	3.0000	3.087
	8.00	1761.0	1434.7	119.07	2.7500	3.101
	9.00	1764.2	1437.9	118.99	2.5556	3.113
	10.00	1766.8	1440.4	118.87	2.4000	3.121
	11.00	1769.2	1442.8	118.73	2.2727	3.130
	12.00	1771.0	1444.6	118.60	2.1667	3.136
	13.00	1772.3	1445.9	118.46	2.0769	3.141
	14.00	1773.6	1447.3	118.34	2.0000	3.146
	15.00	1774.7	1448.3	118.22	1.9333	3.150
	16.00	1775.7	1449.3	118.10	1.8750	3.153
	17.00	1776.6	1450.2	117.97	1.8235	3.156
	18.00	1777.4	1451.0	117.87	1.7778	3.159
	19.00	1778.0	1451.6	117.76	1.7368	3.161
	20.00	1778.8	1452.4	117.63	1.7000	3.164
	21.00	1779.6	1453.2	117.44	1.6667	3.167
	22.00	1779.9	1453.5	117.21	1.6364	3.168
	23.00	1780.5	1454.1	116.98	1.6087	3.170
	24.00	1780.9	1454.5	116.80	1.5833	3.171
	25.00	1781.4	1455.0	116.64	1.5600	3.173
	26.00	1781.6	1455.2	116.51	1.5385	3.174
	27.00	1781.9	1455.6	116.41	1.5185	3.175
	28.00	1782.3	1455.9	116.32	1.5000	3.177
	29.00	1782.5	1456.1	116.25	1.4828	3.177
	30.00	1782.8	1456.4	116.16	1.4667	3.178
	31.00	1783.0	1456.7	116.13	1.4516	3.179
	32.00	1783.3	1456.9	116.07	1.4375	3.180
	33.00	1783.5	1457.1	116.06	1.4242	3.181
	34.00	1783.7	1457.3	116.00	1.4118	3.182

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98

TIME: 22:41:00

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
35.00	1783.9	1457.5	115.95	1.4000	3.182
36.00	1784.0	1457.7	115.91	1.3889	3.183
37.00	1784.2	1457.8	115.88	1.3784	3.183
38.00	1784.5	1458.1	115.84	1.3684	3.184
39.00	1784.6	1458.2	115.80	1.3590	3.185
40.00	1784.8	1458.4	115.79	1.3500	3.186
41.00	1785.1	1458.7	115.74	1.3415	3.186
42.00	1785.1	1458.7	115.73	1.3333	3.186
43.00	1785.4	1459.0	115.68	1.3256	3.188
44.00	1785.4	1459.0	115.65	1.3182	3.188
45.00	1785.5	1459.1	115.63	1.3111	3.188
46.00	1785.6	1459.2	115.62	1.3043	3.188
47.00	1785.8	1459.4	115.59	1.2979	3.189
48.00	1786.0	1459.6	115.56	1.2917	3.190
49.00	1786.1	1459.7	115.53	1.2857	3.190
50.00	1786.1	1459.7	115.52	1.2800	3.190
51.00	1786.1	1459.8	115.49	1.2745	3.190
52.00	1786.2	1459.8	115.46	1.2692	3.191
53.00	1786.2	1459.8	115.42	1.2642	3.191
54.00	1786.4	1460.0	115.40	1.2593	3.191
55.00	1786.5	1460.1	115.39	1.2545	3.192
56.00	1786.6	1460.2	115.37	1.2500	3.192
57.00	1786.6	1460.3	115.36	1.2456	3.192
58.00	1786.8	1460.4	115.35	1.2414	3.193
59.00	1786.9	1460.5	115.32	1.2373	3.193
60.00	1786.9	1460.5	115.30	1.2333	3.193
61.00	1786.9	1460.5	115.28	1.2295	3.193
62.00	1787.0	1460.6	115.26	1.2258	3.193
63.00	1787.1	1460.7	115.24	1.2222	3.194
64.00	1787.2	1460.8	115.23	1.2188	3.194
65.00	1787.2	1460.8	115.21	1.2154	3.194
66.00	1787.3	1460.9	115.20	1.2121	3.195
67.00	1787.4	1461.0	115.19	1.2090	3.195
68.00	1787.5	1461.1	115.18	1.2059	3.195
69.00	1787.5	1461.1	115.17	1.2029	3.195
70.00	1787.5	1461.1	115.16	1.2000	3.195
71.00	1787.7	1461.3	115.16	1.1972	3.196
72.00	1787.7	1461.3	115.16	1.1944	3.196
73.00	1787.6	1461.2	115.16	1.1918	3.195
74.00	1787.7	1461.4	115.16	1.1892	3.196
75.00	1787.8	1461.4	115.16	1.1867	3.196
76.00	1787.8	1461.4	115.16	1.1842	3.196
77.00	1787.8	1461.4	115.15	1.1818	3.196
78.00	1787.9	1461.5	115.15	1.1795	3.197
79.00	1787.9	1461.5	115.16	1.1772	3.197
80.00	1787.9	1461.5	115.15	1.1750	3.197
81.00	1788.0	1461.6	115.14	1.1728	3.197
82.00	1788.0	1461.6	115.15	1.1707	3.197
83.00	1788.1	1461.7	115.15	1.1687	3.197
84.00	1788.2	1461.8	115.15	1.1667	3.198
85.00	1788.2	1461.9	115.15	1.1647	3.198

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98 TIME: 22:41:00

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	86.00	1788.2	1461.8	115.14	1.1628	3.198
	87.00	1788.1	1461.7	115.14	1.1609	3.197
	88.00	1788.2	1461.9	115.14	1.1591	3.198
	89.00	1788.2	1461.9	115.13	1.1573	3.198
***** End Shut-in 1	90.00	1788.2	1461.8	115.11	1.1556	3.198
***** Start Flow 2	0.00	290.2	0.0	114.96		
	1.00	292.0	1.8	114.87		
	2.00	303.1	12.9	114.79		
	3.00	314.0	23.8	114.68		
	4.00	322.8	32.6	114.54		
	5.00	329.8	39.6	114.38		
	6.00	338.8	48.6	114.17		
	7.00	345.3	55.1	113.94		
	8.00	352.4	62.2	113.67		
	9.00	358.7	68.5	113.37		
	10.00	364.3	74.1	113.08		
	11.00	375.7	85.5	112.80		
	12.00	381.8	91.6	112.52		
	13.00	383.4	93.2	112.25		
	14.00	387.0	96.8	111.97		
	15.00	391.2	101.0	111.71		
	16.00	395.2	105.0	111.48		
	17.00	397.5	107.3	111.24		
	18.00	402.0	111.8	111.03		
	19.00	403.3	113.1	110.82		
	20.00	407.8	117.6	110.64		
	21.00	412.0	121.8	110.45		
	22.00	414.1	123.9	110.29		
	23.00	418.1	127.9	110.14		
	24.00	420.2	130.0	109.99		
	25.00	422.5	132.3	109.85		
	26.00	426.6	136.4	109.73		
	27.00	429.8	139.6	109.63		
	28.00	432.7	142.5	109.52		
	29.00	435.8	145.6	109.39		
	30.00	437.0	146.8	109.28		
	31.00	441.5	151.3	109.14		
	32.00	444.6	154.4	108.99		
	33.00	447.0	156.8	108.88		
	34.00	450.2	160.0	108.74		
	35.00	451.1	160.9	108.60		
	36.00	455.5	165.3	108.47		
	37.00	456.9	166.7	108.33		
	38.00	459.7	169.5	108.24		
	39.00	462.1	171.9	108.12		
	40.00	465.8	175.6	108.02		
	41.00	467.8	177.6	107.94		
***** End Flow 2	42.00	470.3	180.1	107.85		
***** Start Shutin 2	0.00	470.3	0.0	107.85	0.0000	0.221
	1.00	1213.8	743.5	107.80	57.0000	1.473
	2.00	1622.5	1152.2	108.57	29.0000	2.632

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
3.00	1678.2	1207.9	110.13	19.6667	2.816
4.00	1702.0	1231.7	111.37	15.0000	2.897
5.00	1716.7	1246.4	112.03	12.2000	2.947
6.00	1727.0	1256.7	112.30	10.3333	2.982
7.00	1734.4	1264.1	112.32	9.0000	3.008
8.00	1740.2	1269.9	112.22	8.0000	3.028
9.00	1744.8	1274.4	112.07	7.2222	3.044
10.00	1748.4	1278.1	111.89	6.6000	3.057
11.00	1751.5	1281.2	111.69	6.0909	3.068
12.00	1754.3	1283.9	111.53	5.6667	3.077
13.00	1756.4	1286.1	111.36	5.3077	3.085
14.00	1758.4	1288.0	111.21	5.0000	3.092
15.00	1760.2	1289.9	111.07	4.7333	3.098
16.00	1761.8	1291.5	110.97	4.5000	3.104
17.00	1763.4	1293.1	110.93	4.2941	3.110
18.00	1764.7	1294.3	110.67	4.1111	3.114
19.00	1766.0	1295.7	110.59	3.9474	3.119
20.00	1767.3	1297.0	110.55	3.8000	3.124
21.00	1768.4	1298.1	110.49	3.6667	3.127
22.00	1769.4	1299.1	110.42	3.5455	3.131
23.00	1770.4	1300.1	110.36	3.4348	3.134
24.00	1771.1	1300.8	110.30	3.3333	3.137
25.00	1772.2	1301.9	110.24	3.2400	3.141
26.00	1772.8	1302.5	110.18	3.1538	3.143
27.00	1773.4	1303.1	110.12	3.0741	3.145
28.00	1774.2	1303.9	110.07	3.0000	3.148
29.00	1774.9	1304.6	110.01	2.9310	3.150
30.00	1775.5	1305.2	109.96	2.8667	3.152
31.00	1776.0	1305.7	109.92	2.8065	3.154
32.00	1776.5	1306.2	109.85	2.7500	3.156
33.00	1777.0	1306.7	109.82	2.6970	3.158
34.00	1777.3	1307.0	109.78	2.6471	3.159
35.00	1777.7	1307.3	109.73	2.6000	3.160
36.00	1778.3	1307.9	109.71	2.5556	3.162
37.00	1778.5	1308.2	109.68	2.5135	3.163
38.00	1778.8	1308.5	109.62	2.4737	3.164
39.00	1779.2	1308.9	109.59	2.4359	3.165
40.00	1779.5	1309.2	109.55	2.4000	3.167
41.00	1779.8	1309.4	109.54	2.3659	3.168
42.00	1780.2	1309.9	109.51	2.3333	3.169
43.00	1780.4	1310.1	109.49	2.3023	3.170
44.00	1780.6	1310.3	109.46	2.2727	3.171
45.00	1780.9	1310.6	109.43	2.2444	3.172
46.00	1781.2	1310.9	109.42	2.2174	3.173
47.00	1781.4	1311.1	109.39	2.1915	3.174
48.00	1781.7	1311.4	109.39	2.1667	3.174
49.00	1781.8	1311.5	109.38	2.1429	3.175
50.00	1781.9	1311.6	109.36	2.1200	3.175
51.00	1782.3	1312.0	109.31	2.0980	3.177
52.00	1782.5	1312.1	109.28	2.0769	3.177
53.00	1782.6	1312.3	109.30	2.0566	3.178

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98

TIME: 22:41:00  
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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6	
	54.00	1782.8	1312.5	109.29	2.0370	3.178	
	55.00	1783.1	1312.8	109.29	2.0182	3.180	
	56.00	1783.2	1312.9	109.30	2.0000	3.180	
	57.00	1783.5	1313.1	109.29	1.9825	3.181	
	58.00	1783.6	1313.3	109.30	1.9655	3.181	
	59.00	1783.9	1313.6	109.28	1.9492	3.182	
	60.00	1783.9	1313.6	109.27	1.9333	3.182	
	61.00	1783.9	1313.6	109.28	1.9180	3.182	
	62.00	1784.1	1313.8	109.27	1.9032	3.183	
	63.00	1784.4	1314.1	109.28	1.8889	3.184	
	64.00	1784.6	1314.3	109.28	1.8750	3.185	
	65.00	1784.6	1314.3	109.29	1.8615	3.185	
	66.00	1784.7	1314.4	109.29	1.8485	3.185	
	67.00	1784.8	1314.5	109.30	1.8358	3.186	
	68.00	1785.1	1314.7	109.30	1.8235	3.186	
	69.00	1785.0	1314.6	109.33	1.8116	3.186	
	70.00	1785.1	1314.8	109.33	1.8000	3.187	
	71.00	1785.4	1315.1	109.31	1.7887	3.188	
	72.00	1785.5	1315.1	109.33	1.7778	3.188	
	73.00	1785.6	1315.2	109.33	1.7671	3.188	
	74.00	1785.6	1315.3	109.33	1.7568	3.189	
	75.00	1785.8	1315.5	109.35	1.7467	3.189	
	76.00	1785.9	1315.6	109.36	1.7368	3.189	
	77.00	1786.0	1315.7	109.36	1.7273	3.190	
	78.00	1786.1	1315.8	109.37	1.7179	3.190	
	79.00	1786.2	1315.9	109.38	1.7089	3.191	
	80.00	1786.2	1315.9	109.40	1.7000	3.191	
	81.00	1786.4	1316.1	109.41	1.6914	3.191	
	82.00	1786.4	1316.1	109.43	1.6829	3.191	
	83.00	1786.7	1316.3	109.44	1.6747	3.192	
	84.00	1786.7	1316.3	109.45	1.6667	3.192	
	85.00	1786.7	1316.4	109.47	1.6588	3.192	
	86.00	1786.9	1316.6	109.48	1.6512	3.193	
	87.00	1787.0	1316.7	109.51	1.6437	3.193	
	88.00	1787.1	1316.7	109.52	1.6364	3.194	
	89.00	1787.2	1316.8	109.54	1.6292	3.194	
	90.00	1787.2	1316.9	109.57	1.6222	3.194	
*****	End Shut-in 2	91.00	1787.2	1316.9	109.58	1.6154	3.194
*****	Final Hydro.	389.00	2245.6	0.0	110.92		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98

TIME: 22:41:00

	Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F.	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	146.00	2262.8	0.0		111.44		
***** Start Flow 1	0.00	248.3	0.0		111.51		
	1.00	252.2	3.9		111.77		
	2.00	253.8	5.5		112.19		
	3.00	265.3	17.0		112.72		
	4.00	263.5	15.2		113.27		
	5.00	269.1	20.7		113.73		
	6.00	278.9	30.5		114.10		
	7.00	284.3	35.9		114.38		
	8.00	292.6	44.2		114.62		
	9.00	303.6	55.2		114.83		
	10.00	306.4	58.1		114.97		
	11.00	310.5	62.2		115.04		
	12.00	315.2	66.9		115.08		
	13.00	321.4	73.1		115.12		
***** End Flow 1	14.00	326.4	78.1		115.12		
***** Start Shutin 1	0.00	326.4	0.0		115.12	0.0000	0.107
	1.00	1515.3	1188.9		115.15	15.0000	2.296
	2.00	1687.1	1360.7		115.86	8.0000	2.846
	3.00	1720.2	1393.8		117.10	5.6667	2.959
	4.00	1734.7	1408.3		118.10	4.5000	3.009
	5.00	1744.9	1418.5		118.68	3.8000	3.045
	6.00	1751.8	1425.4		118.99	3.3333	3.069
	7.00	1757.0	1430.6		119.11	3.0000	3.087
	8.00	1761.0	1434.7		119.07	2.7500	3.101
	9.00	1764.2	1437.9		118.99	2.5556	3.113
	10.00	1766.8	1440.4		118.87	2.4000	3.121
	11.00	1769.2	1442.8		118.73	2.2727	3.130
	12.00	1771.0	1444.6		118.60	2.1667	3.136
	13.00	1772.3	1445.9		118.46	2.0769	3.141
	14.00	1773.6	1447.3		118.34	2.0000	3.146
	15.00	1774.7	1448.3		118.22	1.9333	3.150
	16.00	1775.7	1449.3		118.10	1.8750	3.153
	17.00	1776.6	1450.2		117.97	1.8235	3.156
	18.00	1777.4	1451.0		117.87	1.7778	3.159
	19.00	1778.0	1451.6		117.76	1.7368	3.161
	20.00	1778.8	1452.4		117.63	1.7000	3.164
	21.00	1779.6	1453.2		117.44	1.6667	3.167
	22.00	1779.9	1453.5		117.21	1.6364	3.168
	23.00	1780.5	1454.1		116.98	1.6087	3.170
	24.00	1780.9	1454.5		116.80	1.5833	3.171
	25.00	1781.4	1455.0		116.64	1.5600	3.173
	26.00	1781.6	1455.2		116.51	1.5385	3.174
	27.00	1781.9	1455.6		116.41	1.5185	3.175
	28.00	1782.3	1455.9		116.32	1.5000	3.177
	29.00	1782.5	1456.1		116.25	1.4828	3.177
	30.00	1782.8	1456.4		116.16	1.4667	3.178
	31.00	1783.0	1456.7		116.13	1.4516	3.179
	32.00	1783.3	1456.9		116.07	1.4375	3.180
	33.00	1783.5	1457.1		116.06	1.4242	3.181
	34.00	1783.7	1457.3		116.00	1.4118	3.182

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98

TIME: 22:41:00

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
35.00	1783.9	1457.5	115.95	1.4000	3.182
36.00	1784.0	1457.7	115.91	1.3889	3.183
37.00	1784.2	1457.8	115.88	1.3784	3.183
38.00	1784.5	1458.1	115.84	1.3684	3.184
39.00	1784.6	1458.2	115.80	1.3590	3.185
40.00	1784.8	1458.4	115.79	1.3500	3.186
41.00	1785.1	1458.7	115.74	1.3415	3.186
42.00	1785.1	1458.7	115.73	1.3333	3.186
43.00	1785.4	1459.0	115.68	1.3256	3.188
44.00	1785.4	1459.0	115.65	1.3182	3.188
45.00	1785.5	1459.1	115.63	1.3111	3.188
46.00	1785.6	1459.2	115.62	1.3043	3.188
47.00	1785.8	1459.4	115.59	1.2979	3.189
48.00	1786.0	1459.6	115.56	1.2917	3.190
49.00	1786.1	1459.7	115.53	1.2857	3.190
50.00	1786.1	1459.7	115.52	1.2800	3.190
51.00	1786.1	1459.8	115.49	1.2745	3.190
52.00	1786.2	1459.8	115.46	1.2692	3.191
53.00	1786.2	1459.8	115.42	1.2642	3.191
54.00	1786.4	1460.0	115.40	1.2593	3.191
55.00	1786.5	1460.1	115.39	1.2545	3.192
56.00	1786.6	1460.2	115.37	1.2500	3.192
57.00	1786.6	1460.3	115.36	1.2456	3.192
58.00	1786.8	1460.4	115.35	1.2414	3.193
59.00	1786.9	1460.5	115.32	1.2373	3.193
60.00	1786.9	1460.5	115.30	1.2333	3.193
61.00	1786.9	1460.5	115.28	1.2295	3.193
62.00	1787.0	1460.6	115.26	1.2258	3.193
63.00	1787.1	1460.7	115.24	1.2222	3.194
64.00	1787.2	1460.8	115.23	1.2188	3.194
65.00	1787.2	1460.8	115.21	1.2154	3.194
66.00	1787.3	1460.9	115.20	1.2121	3.195
67.00	1787.4	1461.0	115.19	1.2090	3.195
68.00	1787.5	1461.1	115.18	1.2059	3.195
69.00	1787.5	1461.1	115.17	1.2029	3.195
70.00	1787.5	1461.1	115.16	1.2000	3.195
71.00	1787.7	1461.3	115.16	1.1972	3.196
72.00	1787.7	1461.3	115.16	1.1944	3.196
73.00	1787.6	1461.2	115.16	1.1918	3.195
74.00	1787.7	1461.4	115.16	1.1892	3.196
75.00	1787.8	1461.4	115.16	1.1867	3.196
76.00	1787.8	1461.4	115.16	1.1842	3.196
77.00	1787.8	1461.4	115.15	1.1818	3.196
78.00	1787.9	1461.5	115.15	1.1795	3.197
79.00	1787.9	1461.5	115.16	1.1772	3.197
80.00	1787.9	1461.5	115.15	1.1750	3.197
81.00	1788.0	1461.6	115.14	1.1728	3.197
82.00	1788.0	1461.6	115.15	1.1707	3.197
83.00	1788.1	1461.7	115.15	1.1687	3.197
84.00	1788.2	1461.8	115.15	1.1667	3.198
85.00	1788.2	1461.9	115.15	1.1647	3.198

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98

TIME: 22:41:00  
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	Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	86.00	1788.2	1461.8	115.14	1.1628	3.198
	87.00	1788.1	1461.7	115.14	1.1609	3.197
	88.00	1788.2	1461.9	115.14	1.1591	3.198
	89.00	1788.2	1461.9	115.13	1.1573	3.198
***** End Shut-in 1	90.00	1788.2	1461.8	115.11	1.1556	3.198
***** Start Flow 2	0.00	290.2	0.0	114.96		
	1.00	292.0	1.8	114.87		
	2.00	303.1	12.9	114.79		
	3.00	314.0	23.8	114.68		
	4.00	322.8	32.6	114.54		
	5.00	329.8	39.6	114.38		
	6.00	338.8	48.6	114.17		
	7.00	345.3	55.1	113.94		
	8.00	352.4	62.2	113.67		
	9.00	358.7	68.5	113.37		
	10.00	364.3	74.1	113.08		
	11.00	375.7	85.5	112.80		
	12.00	381.8	91.6	112.52		
	13.00	383.4	93.2	112.25		
	14.00	387.0	96.8	111.97		
	15.00	391.2	101.0	111.71		
	16.00	395.2	105.0	111.48		
	17.00	397.5	107.3	111.24		
	18.00	402.0	111.8	111.03		
	19.00	403.3	113.1	110.82		
	20.00	407.8	117.6	110.64		
	21.00	412.0	121.8	110.45		
	22.00	414.1	123.9	110.29		
	23.00	418.1	127.9	110.14		
	24.00	420.2	130.0	109.99		
	25.00	422.5	132.3	109.85		
	26.00	426.6	136.4	109.73		
	27.00	429.8	139.6	109.63		
	28.00	432.7	142.5	109.52		
	29.00	435.8	145.6	109.39		
	30.00	437.0	146.8	109.28		
	31.00	441.5	151.3	109.14		
	32.00	444.6	154.4	108.99		
	33.00	447.0	156.8	108.88		
	34.00	450.2	160.0	108.74		
	35.00	451.1	160.9	108.60		
	36.00	455.5	165.3	108.47		
	37.00	456.9	166.7	108.33		
	38.00	459.7	169.5	108.24		
	39.00	462.1	171.9	108.12		
	40.00	465.8	175.6	108.02		
	41.00	467.8	177.6	107.94		
***** End Flow 2	42.00	470.3	180.1	107.85		
***** Start Shutin 2	0.00	470.3	0.0	107.85	0.0000	0.221
	1.00	1213.8	743.5	107.80	57.0000	1.473
	2.00	1622.5	1152.2	108.57	29.0000	2.632

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98

TIME: 22:41:00

Time	Pressure PSIg	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
3.00	1678.2	1207.9	110.13	19.6667	2.816
4.00	1702.0	1231.7	111.37	15.0000	2.897
5.00	1716.7	1246.4	112.03	12.2000	2.947
6.00	1727.0	1256.7	112.30	10.3333	2.982
7.00	1734.4	1264.1	112.32	9.0000	3.008
8.00	1740.2	1269.9	112.22	8.0000	3.028
9.00	1744.8	1274.4	112.07	7.2222	3.044
10.00	1748.4	1278.1	111.89	6.6000	3.057
11.00	1751.5	1281.2	111.69	6.0909	3.068
12.00	1754.3	1283.9	111.53	5.6667	3.077
13.00	1756.4	1286.1	111.36	5.3077	3.085
14.00	1758.4	1288.0	111.21	5.0000	3.092
15.00	1760.2	1289.9	111.07	4.7333	3.098
16.00	1761.8	1291.5	110.97	4.5000	3.104
17.00	1763.4	1293.1	110.93	4.2941	3.110
18.00	1764.7	1294.3	110.67	4.1111	3.114
19.00	1766.0	1295.7	110.59	3.9474	3.119
20.00	1767.3	1297.0	110.55	3.8000	3.124
21.00	1768.4	1298.1	110.49	3.6667	3.127
22.00	1769.4	1299.1	110.42	3.5455	3.131
23.00	1770.4	1300.1	110.36	3.4348	3.134
24.00	1771.1	1300.8	110.30	3.3333	3.137
25.00	1772.2	1301.9	110.24	3.2400	3.141
26.00	1772.8	1302.5	110.18	3.1538	3.143
27.00	1773.4	1303.1	110.12	3.0741	3.145
28.00	1774.2	1303.9	110.07	3.0000	3.148
29.00	1774.9	1304.6	110.01	2.9310	3.150
30.00	1775.5	1305.2	109.96	2.8667	3.152
31.00	1776.0	1305.7	109.92	2.8065	3.154
32.00	1776.5	1306.2	109.85	2.7500	3.156
33.00	1777.0	1306.7	109.82	2.6970	3.158
34.00	1777.3	1307.0	109.78	2.6471	3.159
35.00	1777.7	1307.3	109.73	2.6000	3.160
36.00	1778.3	1307.9	109.71	2.5556	3.162
37.00	1778.5	1308.2	109.68	2.5135	3.163
38.00	1778.8	1308.5	109.62	2.4737	3.164
39.00	1779.2	1308.9	109.59	2.4359	3.165
40.00	1779.5	1309.2	109.55	2.4000	3.167
41.00	1779.8	1309.4	109.54	2.3659	3.168
42.00	1780.2	1309.9	109.51	2.3333	3.169
43.00	1780.4	1310.1	109.49	2.3023	3.170
44.00	1780.6	1310.3	109.46	2.2727	3.171
45.00	1780.9	1310.6	109.43	2.2444	3.172
46.00	1781.2	1310.9	109.42	2.2174	3.173
47.00	1781.4	1311.1	109.39	2.1915	3.174
48.00	1781.7	1311.4	109.39	2.1667	3.174
49.00	1781.8	1311.5	109.38	2.1429	3.175
50.00	1781.9	1311.6	109.36	2.1200	3.175
51.00	1782.3	1312.0	109.31	2.0980	3.177
52.00	1782.5	1312.1	109.28	2.0769	3.177
53.00	1782.6	1312.3	109.30	2.0566	3.178

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10790 DST#1 Herd #34-13 Sam Gary Jr.

DATE: 05/29/98 TIME: 22:41:00  
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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
54.00	1782.8	1312.5	109.29	2.0370	3.178
55.00	1783.1	1312.8	109.29	2.0182	3.180
56.00	1783.2	1312.9	109.30	2.0000	3.180
57.00	1783.5	1313.1	109.29	1.9825	3.181
58.00	1783.6	1313.3	109.30	1.9655	3.181
59.00	1783.9	1313.6	109.28	1.9492	3.182
60.00	1783.9	1313.6	109.27	1.9333	3.182
61.00	1783.9	1313.6	109.28	1.9180	3.182
62.00	1784.1	1313.8	109.27	1.9032	3.183
63.00	1784.4	1314.1	109.28	1.8889	3.184
64.00	1784.6	1314.3	109.28	1.8750	3.185
65.00	1784.6	1314.3	109.29	1.8615	3.185
66.00	1784.7	1314.4	109.29	1.8485	3.185
67.00	1784.8	1314.5	109.30	1.8358	3.186
68.00	1785.1	1314.7	109.30	1.8235	3.186
69.00	1785.0	1314.6	109.33	1.8116	3.186
70.00	1785.1	1314.8	109.33	1.8000	3.187
71.00	1785.4	1315.1	109.31	1.7887	3.188
72.00	1785.5	1315.1	109.33	1.7778	3.188
73.00	1785.6	1315.2	109.33	1.7671	3.188
74.00	1785.6	1315.3	109.33	1.7568	3.189
75.00	1785.8	1315.5	109.35	1.7467	3.189
76.00	1785.9	1315.6	109.36	1.7368	3.189
77.00	1786.0	1315.7	109.36	1.7273	3.190
78.00	1786.1	1315.8	109.37	1.7179	3.190
79.00	1786.2	1315.9	109.38	1.7089	3.191
80.00	1786.2	1315.9	109.40	1.7000	3.191
81.00	1786.4	1316.1	109.41	1.6914	3.191
82.00	1786.4	1316.1	109.43	1.6829	3.191
83.00	1786.7	1316.3	109.44	1.6747	3.192
84.00	1786.7	1316.3	109.45	1.6667	3.192
85.00	1786.7	1316.4	109.47	1.6588	3.192
86.00	1786.9	1316.6	109.48	1.6512	3.193
87.00	1787.0	1316.7	109.51	1.6437	3.193
88.00	1787.1	1316.7	109.52	1.6364	3.194
89.00	1787.2	1316.8	109.54	1.6292	3.194
90.00	1787.2	1316.9	109.57	1.6222	3.194
91.00	1787.2	1316.9	109.58	1.6154	3.194
***** End Shut-in 2					
***** Final Hydro.	389.00	2245.6	0.0	110.92	



TRILOBITE TESTING L.L.C.

OPERATOR : Samuel Gary Jr.&  
 WELL NAME: Herd #34-13  
 LOCATION : 39-32s-19w Comanche KS  
 INTERVAL : 4994.00 To 5012.00 ft

DATE 05/31/98  
 KB 1935.00 ft TICKET NO: 10791 DST #2  
 GR 1922.00 ft FORMATION: Fort Scott  
 TD 501226.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 10	Rec.	10332	10332	2350		PF Fr. 1238 to 1248 hr
SI 90	Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0 IS Fr. 1248 to 1418 hr
SF 45	Clock(hrs)	12hr.	12hr.	elec.		SF Fr. 1418 to 1503 hr
FS 90	Depth(ft )	5009.0	5009.0	5000.0	0.0	0.0 FS Fr. 1503 to 1633 hr

	Field	1	2	3	4	
A. Init Hydro	2408.0	2393.0	2415.0	0.0	0.0	T STARTED 1031 hr
B. First Flow	111.0	99.0	96.0	0.0	0.0	T ON BOTM 1234 hr
B1. Final Flow	101.0	99.0	120.0	0.0	0.0	T OPEN 1238 hr
C. In Shut-in	1196.0	1190.0	1223.0	0.0	0.0	T PULLED 1633 hr
D. Init Flow	111.0	98.0	95.0	0.0	0.0	T OUT 1840 hr
E. Final Flow	101.0	90.0	97.0	0.0	0.0	
F. Fl Shut-in	1196.0	1183.0	1208.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2398.0	2345.0	2348.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 80000.00 lbs
						Initial Str Wt 77000.00 lbs
						Unseated Str Wt 77000.00 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 266.00 ft
						D.P. Length 4219.00 ft

RECOVERY

Tot Fluid 45.00 ft of 45.00 ft in DC and 0.00 ft in DP  
 45.00 ft of Very slight water cut mud 2%water 98%mud  
 4940.00 ft of Gas in pipe  
 0.00 ft of  
 0.00 ft of

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

BLOW DESCRIPTION

IF:Strong blow.B.O.B in 10 sec.G.T.S in  
 2-1/2 mins.Gauge gas.

ISI:Bled down for 20 mins.No B.B.

FF:Strong blow.B.O.B in 10 sec.Gauge gas

FSI:Bled down for 20 mins.No B.B.

SAMPLES: Caraway Analytical, Liberal ks,  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	49.00 S/L
W.L.	9.80 in3
F.C.	0.32 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	115.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren Amerine
Co. Rep.	Bill Padgett
Contr.	Duke
Rig #	7
Unit #	none
Pump T.	no

Test Successful: Y

GAS RECOVERY

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COMPANY: Samuel Gary Jr.& DATE: 05/31/98  
 WELL NAME: Herd #34-13 KB Elev: 1935.00 ft TICKET #10791 DST #2  
 WELL LOCATION: 39-32s-19w Comanche KS GR Elev: 1922.00 ft FORMATION: Fort Scott  
 INTERVAL Fr.: 4994.00 To 5012.00 T.D.: 501226.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adj.Choke

\*\*\*\* GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	16	0	425000.0
6	0.75	22	0	502000.0

\*\*\*\* GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	0.75	17	0	439000.0
10	0.75	22	0	509000.0
15	0.75	23	0	523000.0
20	0.75	23	0	523000.0
25	0.75	23	0	523000.0
30	0.75	22	0	516000.0
35	0.75	22	0	509000.0
40	0.75	22	0	502000.0
45	0.75	21	0	495000.0



**TEST HISTORY**  
 TK#10791 DST#2 Herd #34-13 Sam Gary Jr.

Flag Points

t (Min.)	P (PSig)
A: 0.00	2414.68
B: 0.00	96.34
C: 8.00	120.43
D: 90.00	1223.49
E: 0.00	94.91
F: 41.00	96.68
G: 92.00	1207.80
H: 0.00	2347.70

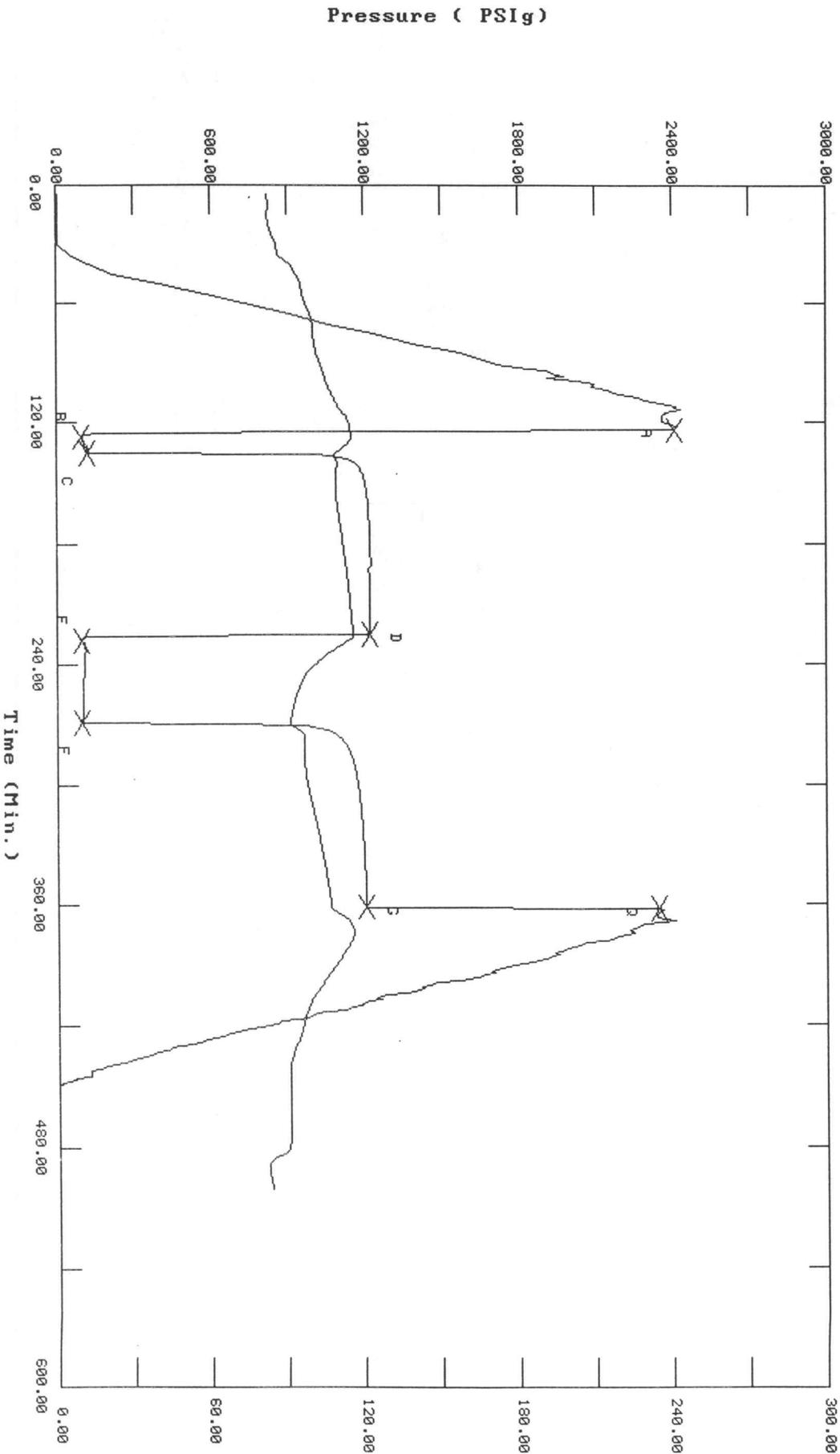
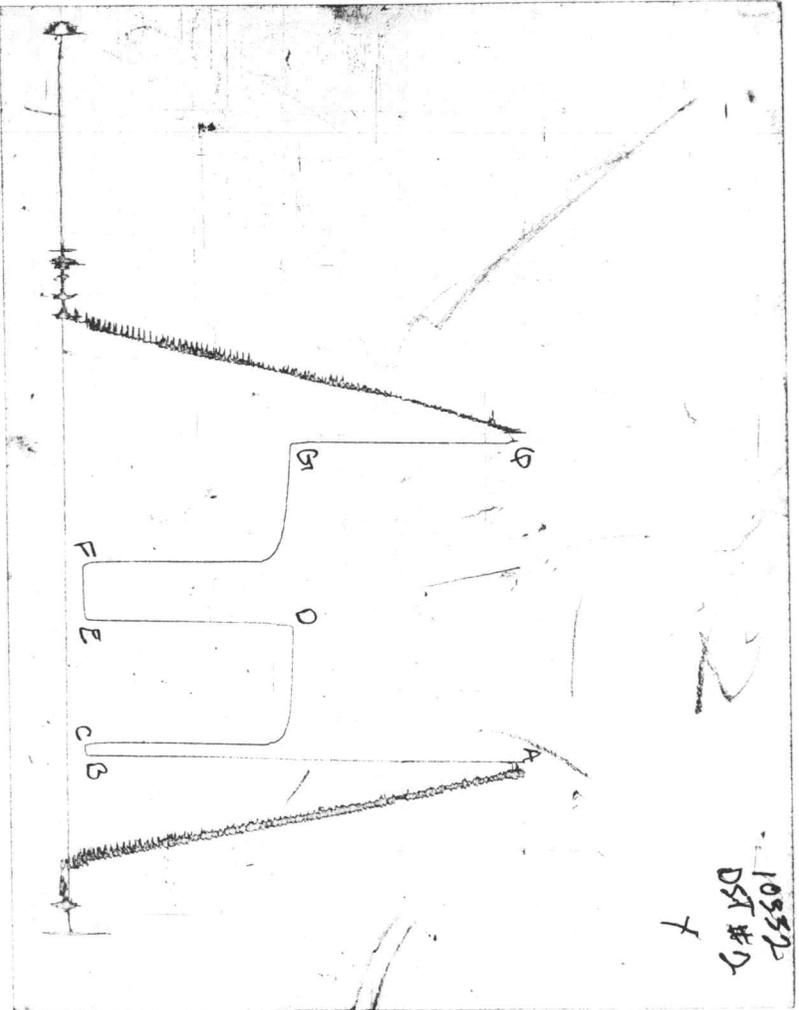


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10791 DST#2 Herd #34-13 Sam Gary Jr.

DATE: 05/31/98 TIME: 10:32:24

	Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	124.00	2414.7	0.0		114.75		
***** Start Flow 1	0.00	96.3	0.0		115.02		
	1.00	99.4	3.1		114.86		
	2.00	98.5	2.2		114.46		
	3.00	103.7	7.4		113.90		
	4.00	107.8	11.5		113.20		
	5.00	113.9	17.5		112.31		
	6.00	117.7	21.3		111.26		
	7.00	115.0	18.6		110.17		
***** End Flow 1	8.00	120.4	24.1		109.11		
***** Start Shutin 1	0.00	120.4	0.0		109.11	0.0000	0.015
	1.00	1018.6	898.2		108.31	9.0000	1.038
	2.00	1103.3	982.9		108.47	5.0000	1.217
	3.00	1133.2	1012.8		108.97	3.6667	1.284
	4.00	1151.5	1031.1		109.32	3.0000	1.326
	5.00	1164.3	1043.9		109.50	2.6000	1.356
	6.00	1173.6	1053.1		109.53	2.3333	1.377
	7.00	1180.4	1059.9		109.49	2.1429	1.393
	8.00	1185.8	1065.4		109.40	2.0000	1.406
	9.00	1190.2	1069.7		109.31	1.8889	1.417
	10.00	1193.9	1073.4		109.21	1.8000	1.425
	11.00	1196.7	1076.3		109.12	1.7273	1.432
	12.00	1199.3	1078.9		109.04	1.6667	1.438
	13.00	1201.5	1081.1		108.98	1.6154	1.444
	14.00	1203.4	1083.0		108.94	1.5714	1.448
	15.00	1205.3	1084.9		108.90	1.5333	1.453
	16.00	1206.7	1086.3		108.89	1.5000	1.456
	17.00	1208.1	1087.7		108.90	1.4706	1.460
	18.00	1209.3	1088.9		108.91	1.4444	1.462
	19.00	1210.5	1090.1		108.98	1.4211	1.465
	20.00	1211.5	1091.1		109.02	1.4000	1.468
	21.00	1212.6	1092.2		109.10	1.3810	1.470
	22.00	1213.3	1092.9		109.15	1.3636	1.472
	23.00	1214.3	1093.8		109.27	1.3478	1.474
	24.00	1215.0	1094.6		109.37	1.3333	1.476
	25.00	1215.8	1095.3		109.46	1.3200	1.478
	26.00	1216.4	1096.0		109.56	1.3077	1.480
	27.00	1217.1	1096.7		109.67	1.2963	1.481
	28.00	1217.7	1097.3		109.78	1.2857	1.483
	29.00	1218.3	1097.9		109.90	1.2759	1.484
	30.00	1218.8	1098.4		110.01	1.2667	1.485
	31.00	1219.3	1098.9		110.13	1.2581	1.487
	32.00	1219.7	1099.3		110.25	1.2500	1.488
	33.00	1220.2	1099.8		110.37	1.2424	1.489
	34.00	1220.6	1100.1		110.48	1.2353	1.490
	35.00	1221.1	1100.7		110.62	1.2286	1.491
	36.00	1221.5	1101.0		110.74	1.2222	1.492
	37.00	1221.8	1101.4		110.86	1.2162	1.493
	38.00	1222.1	1101.7		110.96	1.2105	1.494
	39.00	1222.5	1102.1		111.09	1.2051	1.494
	40.00	1223.0	1102.6		111.21	1.2000	1.496

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10791 DST#2 Herd #34-13 Sam Gary Jr.

DATE: 05/31/98

TIME: 10:32:24

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
41.00	1223.2	1102.7	111.31	1.1951	1.496
42.00	1223.5	1103.1	111.44	1.1905	1.497
43.00	1223.8	1103.4	111.56	1.1860	1.498
44.00	1224.1	1103.7	111.70	1.1818	1.498
45.00	1224.4	1104.0	111.79	1.1778	1.499
46.00	1224.8	1104.3	111.91	1.1739	1.500
47.00	1225.0	1104.6	112.02	1.1702	1.501
48.00	1225.3	1104.9	112.12	1.1667	1.501
49.00	1225.5	1105.1	112.23	1.1633	1.502
50.00	1225.8	1105.3	112.35	1.1600	1.502
51.00	1225.9	1105.5	112.44	1.1569	1.503
52.00	1226.3	1105.8	112.56	1.1538	1.504
53.00	1226.3	1105.8	112.67	1.1509	1.504
54.00	1226.6	1106.2	112.75	1.1481	1.505
55.00	1226.8	1106.3	112.86	1.1455	1.505
56.00	1227.0	1106.6	112.96	1.1429	1.506
57.00	1220.0	1099.5	113.07	1.1404	1.488
58.00	1220.1	1099.6	113.16	1.1379	1.489
59.00	1220.2	1099.8	113.26	1.1356	1.489
60.00	1220.3	1099.9	113.35	1.1333	1.489
61.00	1220.6	1100.2	113.45	1.1311	1.490
62.00	1220.6	1100.2	113.54	1.1290	1.490
63.00	1220.9	1100.5	113.64	1.1270	1.491
64.00	1220.9	1100.5	113.72	1.1250	1.491
65.00	1221.1	1100.6	113.80	1.1231	1.491
66.00	1221.1	1100.7	113.89	1.1212	1.491
67.00	1221.2	1100.8	113.98	1.1194	1.491
68.00	1221.4	1101.0	114.08	1.1176	1.492
69.00	1221.5	1101.0	114.15	1.1159	1.492
70.00	1221.6	1101.2	114.24	1.1143	1.492
71.00	1221.6	1101.2	114.32	1.1127	1.492
72.00	1221.9	1101.5	114.40	1.1111	1.493
73.00	1222.0	1101.6	114.48	1.1096	1.493
74.00	1222.0	1101.6	114.57	1.1081	1.493
75.00	1222.2	1101.8	114.62	1.1067	1.494
76.00	1222.2	1101.8	114.70	1.1053	1.494
77.00	1222.4	1102.0	114.79	1.1039	1.494
78.00	1222.5	1102.1	114.86	1.1026	1.494
79.00	1222.6	1102.1	114.94	1.1013	1.495
80.00	1222.8	1102.4	115.02	1.1000	1.495
81.00	1222.8	1102.4	115.08	1.0988	1.495
82.00	1223.0	1102.6	115.15	1.0976	1.496
83.00	1223.0	1102.6	115.23	1.0964	1.496
84.00	1223.1	1102.7	115.30	1.0952	1.496
85.00	1223.2	1102.7	115.36	1.0941	1.496
86.00	1223.3	1102.9	115.43	1.0930	1.497
87.00	1223.3	1102.9	115.49	1.0920	1.497
88.00	1223.4	1103.0	115.56	1.0909	1.497
89.00	1223.5	1103.1	115.63	1.0899	1.497
90.00	1223.5	1103.1	115.68	1.0889	1.497

\*\*\*\*\* End Shut-in 1

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10791 DST#2 Herd #34-13 Sam Gary Jr.

DATE: 05/31/98

TIME: 10:32:24  
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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Start Flow 2	0.00	94.9	0.0	113.95		
	1.00	104.5	9.6	112.82		
	2.00	105.9	11.0	111.60		
	3.00	107.2	12.3	110.31		
	4.00	108.0	13.1	109.05		
	5.00	108.8	13.8	107.78		
	6.00	108.5	13.6	106.64		
	7.00	108.4	13.5	105.65		
	8.00	108.1	13.2	104.74		
	9.00	108.0	13.1	103.90		
	10.00	107.8	12.8	103.05		
	11.00	107.5	12.6	102.19		
	12.00	107.2	12.3	101.23		
	13.00	106.7	11.7	100.26		
	14.00	105.8	10.9	99.34		
	15.00	105.1	10.2	98.54		
	16.00	104.4	9.5	97.86		
	17.00	103.8	8.9	97.29		
	18.00	103.3	8.4	96.79		
	19.00	102.7	7.8	96.34		
	20.00	102.4	7.5	95.93		
	21.00	102.0	7.1	95.54		
	22.00	101.6	6.7	95.16		
	23.00	101.2	6.3	94.81		
	24.00	100.8	5.9	94.48		
	25.00	100.5	5.6	94.18		
	26.00	100.2	5.3	93.89		
	27.00	99.9	5.0	93.62		
	28.00	99.5	4.6	93.37		
	29.00	99.2	4.3	93.13		
	30.00	99.0	4.1	92.90		
	31.00	98.9	4.0	92.67		
	32.00	98.5	3.6	92.47		
	33.00	98.2	3.3	92.27		
	34.00	98.0	3.1	92.08		
	35.00	97.9	2.9	91.93		
	36.00	97.8	2.9	91.76		
	37.00	97.5	2.6	91.58		
	38.00	97.1	2.2	91.40		
	39.00	96.9	2.0	91.22		
	40.00	96.7	1.8	91.07		
***** End Flow 2	41.00	96.7	1.8	90.93		
***** Start Shutin 2	0.00	96.7	0.0	90.93	0.0000	0.009
	1.00	627.4	530.8	90.82	50.0000	0.394
	2.00	971.0	874.3	91.59	25.5000	0.943
	3.00	1024.6	927.9	93.20	17.3333	1.050
	4.00	1053.5	956.8	94.59	13.2500	1.110
	5.00	1073.6	976.9	95.53	10.8000	1.153
	6.00	1088.3	991.6	96.25	9.1667	1.184
	7.00	1099.7	1003.0	96.38	8.0000	1.209
	8.00	1108.8	1012.2	96.50	7.1250	1.230
	9.00	1116.4	1019.7	96.56	6.4444	1.246

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10791 DST#2 Herd #34-13 Sam Gary Jr.

DATE: 05/31/98

TIME: 10:32:24  
 -----

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.00	1122.8	1026.1	96.56	5.9000	1.261
11.00	1128.1	1031.4	96.55	5.4545	1.273
12.00	1133.0	1036.3	96.54	5.0833	1.284
13.00	1137.0	1040.4	96.52	4.7692	1.293
14.00	1140.9	1044.2	96.51	4.5000	1.302
15.00	1144.3	1047.6	96.52	4.2667	1.309
16.00	1147.5	1050.8	96.53	4.0625	1.317
17.00	1150.3	1053.6	96.56	3.8824	1.323
18.00	1152.8	1056.1	96.59	3.7222	1.329
19.00	1155.3	1058.6	96.63	3.5789	1.335
20.00	1157.4	1060.7	96.68	3.4500	1.339
21.00	1159.7	1063.0	96.73	3.3333	1.345
22.00	1161.6	1064.9	96.78	3.2273	1.349
23.00	1163.4	1066.7	96.87	3.1304	1.353
24.00	1165.0	1068.3	96.95	3.0417	1.357
25.00	1166.8	1070.1	97.04	2.9600	1.361
26.00	1168.2	1071.5	97.13	2.8846	1.365
27.00	1169.8	1073.1	97.25	2.8148	1.368
28.00	1171.1	1074.4	97.36	2.7500	1.372
29.00	1172.4	1075.7	97.49	2.6897	1.374
30.00	1173.6	1077.0	97.61	2.6333	1.377
31.00	1174.9	1078.2	97.78	2.5806	1.380
32.00	1176.2	1079.5	97.93	2.5312	1.383
33.00	1177.2	1080.6	98.07	2.4848	1.386
34.00	1178.3	1081.6	98.24	2.4412	1.388
35.00	1179.4	1082.8	98.40	2.4000	1.391
36.00	1180.5	1083.8	98.57	2.3611	1.394
37.00	1181.4	1084.8	98.73	2.3243	1.396
38.00	1182.3	1085.6	98.92	2.2895	1.398
39.00	1183.2	1086.5	99.09	2.2564	1.400
40.00	1184.0	1087.3	99.27	2.2250	1.402
41.00	1184.6	1088.0	99.43	2.1951	1.403
42.00	1185.6	1088.9	99.61	2.1667	1.406
43.00	1186.5	1089.8	99.80	2.1395	1.408
44.00	1187.2	1090.5	99.98	2.1136	1.409
45.00	1188.0	1091.3	100.07	2.0889	1.411
46.00	1188.7	1092.0	100.33	2.0652	1.413
47.00	1189.3	1092.7	100.51	2.0426	1.415
48.00	1189.9	1093.2	100.69	2.0208	1.416
49.00	1190.5	1093.8	100.86	2.0000	1.417
50.00	1191.2	1094.5	101.04	1.9800	1.419
51.00	1191.8	1095.1	101.19	1.9608	1.420
52.00	1192.5	1095.8	101.38	1.9423	1.422
53.00	1193.0	1096.3	101.55	1.9245	1.423
54.00	1193.5	1096.9	101.71	1.9074	1.425
55.00	1194.1	1097.4	101.86	1.8909	1.426
56.00	1194.7	1098.0	102.04	1.8750	1.427
57.00	1195.2	1098.5	102.21	1.8596	1.429
58.00	1195.8	1099.1	102.37	1.8448	1.430
59.00	1196.1	1099.5	102.53	1.8305	1.431
60.00	1196.7	1100.0	102.68	1.8167	1.432

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: TK#10791 DST#2 Herd #34-13 Sam Gary Jr.

DATE: 05/31/98

TIME: 10:32:24  
 -----

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
61.00	1197.1	1100.5	102.84	1.8033	1.433
62.00	1197.6	1100.9	102.99	1.7903	1.434
63.00	1198.1	1101.4	103.15	1.7778	1.435
64.00	1198.5	1101.8	103.30	1.7656	1.436
65.00	1199.1	1102.4	103.45	1.7538	1.438
66.00	1199.4	1102.7	103.61	1.7424	1.439
67.00	1199.7	1103.1	103.75	1.7313	1.439
68.00	1200.2	1103.6	103.90	1.7206	1.441
69.00	1200.7	1104.0	104.05	1.7101	1.442
70.00	1200.9	1104.2	104.18	1.7000	1.442
71.00	1201.3	1104.6	104.33	1.6901	1.443
72.00	1201.8	1105.1	104.47	1.6806	1.444
73.00	1202.0	1105.3	104.60	1.6712	1.445
74.00	1202.5	1105.8	104.75	1.6622	1.446
75.00	1202.8	1106.2	104.88	1.6533	1.447
76.00	1203.2	1106.5	105.01	1.6447	1.448
77.00	1203.5	1106.8	105.15	1.6364	1.448
78.00	1203.8	1107.1	105.27	1.6282	1.449
79.00	1204.0	1107.3	105.40	1.6203	1.450
80.00	1204.4	1107.8	105.54	1.6125	1.451
81.00	1204.8	1108.1	105.66	1.6049	1.451
82.00	1205.1	1108.4	105.80	1.5976	1.452
83.00	1205.3	1108.6	105.88	1.5904	1.453
84.00	1205.6	1108.9	106.03	1.5833	1.454
85.00	1206.0	1109.3	106.15	1.5765	1.454
86.00	1206.3	1109.6	106.28	1.5698	1.455
87.00	1206.5	1109.9	106.39	1.5632	1.456
88.00	1207.0	1110.3	106.51	1.5568	1.457
89.00	1207.0	1110.4	106.63	1.5506	1.457
90.00	1207.4	1110.7	106.74	1.5444	1.458
91.00	1207.6	1111.0	106.86	1.5385	1.458
92.00	1207.8	1111.1	106.97	1.5326	1.459

\*\*\*\*\* End Shut-in 2

\*\*\*\*\* Final Hydro. 362.00 2347.7 0.0 107.15









\*\*\* TOOL DIAGRAM \*\*\* CONVENTIONAL

WELL NAME: Herd #34-13

LOCATION : 39-32s-19w Comanche KS

TICKET No. 10792 D.S.T. No. 3 DATE 06/01/98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 30

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 26

TOTAL TOOL ..... 56

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY .....

D.C. ABOVE TOOLS.Stands4 Single 1 Total 266

D.P. ABOVE TOOLS.Stands79 Single 1 Total 4873

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5195

TOTAL DEPTH ..... 5190

TOTAL DRILL PIPE ABOVE K.B. .... 5

REMARKS:

FLUID SAMPLER DATA  
+++++

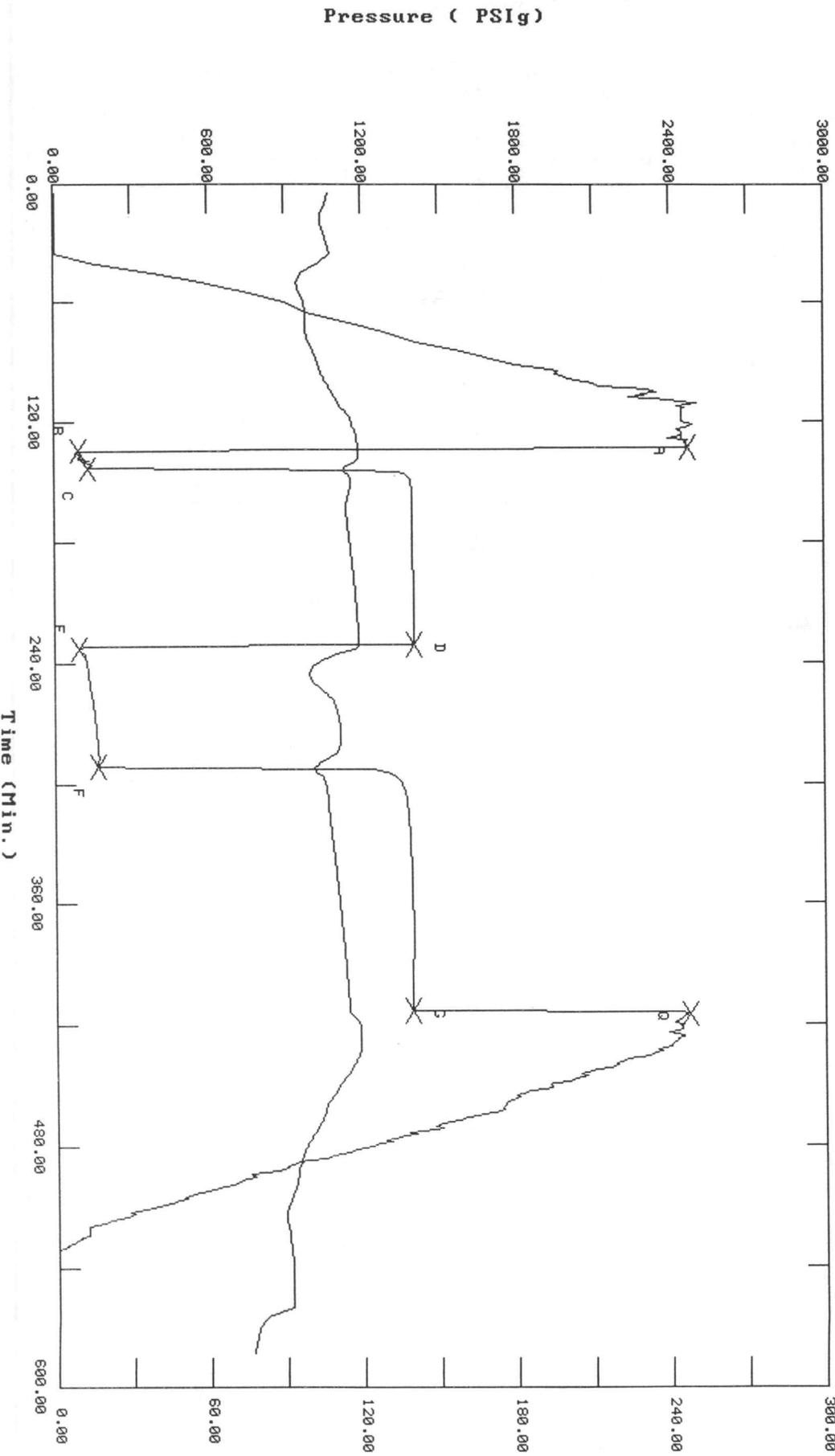
pit mud analysis	Sampler recovery
Chlorides--9000----ppm.	^^^^^^^^^^^^^^^^
Res.0.6-ohms@--82--F.	Gas---4000----ML.
Vis-44--Weight--9.1-	oil-----ML.
Filtrate-8.0--no LCM	mud-----ML.
Sampler analysis	water-----ML.
Res.-----Ohms.@----F.	other-----ML.
Chlorides-----PPM.	pressure--150---Psi.
	total.---4000---ML.

P.O. SUB	5132
C.O. SUB Top of tool @	5133
S.I. TOOL	5138
SAMPLER	5143
HMV	5148
JARS	5153
SAFETY JOINT	5155
PACKER	5159
PACKER	5164
DEPTH	
STUBB 1'stubb to	5165
ANCHOR 5'perfs to	5170
Alpine rec.@5170	
	5170
T.C.	
DEPTH	
15'ofperfs.to	5185
Ak-1 rec.@5187	
BULLNOSE 5'Bullnose to	5190
T.D.	

**TEST HISTORY**  
 TK#10792 DST#3 Herd #34-13 Sam Gary Jr.

Flag Points

t (Min.)	P (PSig)
R: 0.00	2474.69
B: 0.00	94.07
C: 9.00	130.33
D: 88.00	1400.79
E: 0.00	93.40
F: 58.00	167.93
G: 122.00	1392.40
Q: 0.00	2475.27

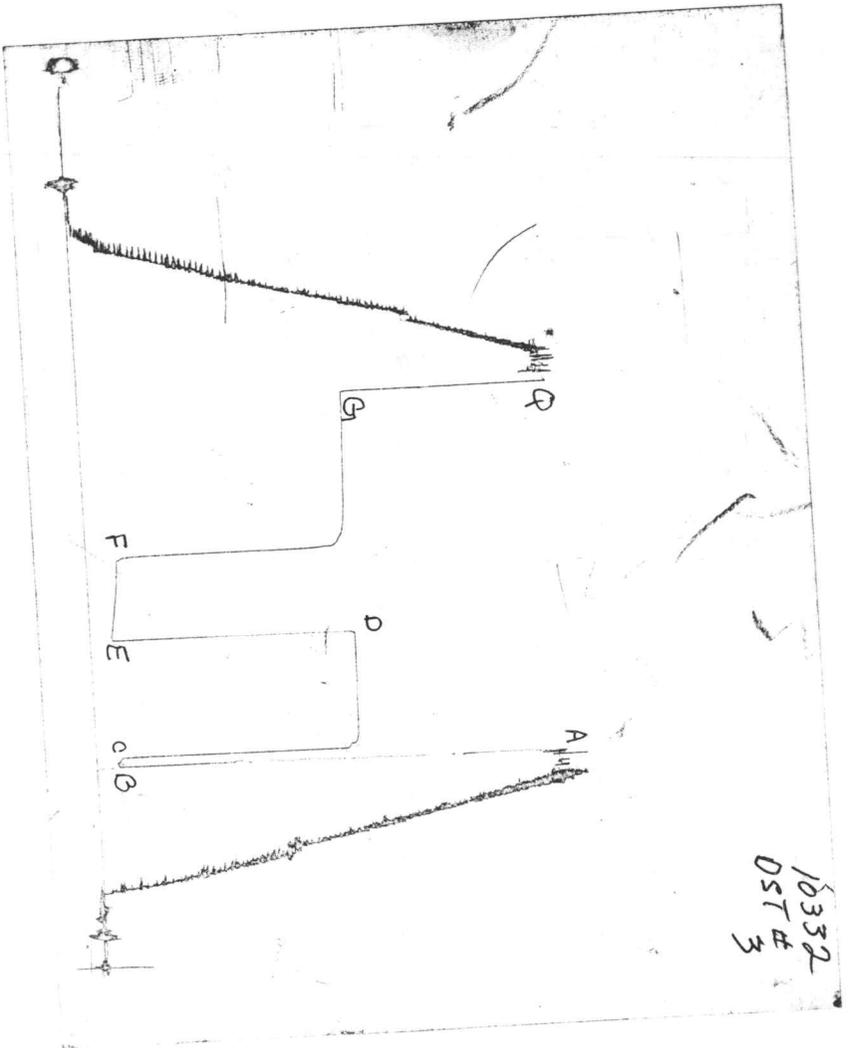


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10792 DST#3 Herd #34-13 Sam Gary Jr.

DATE: 06/01/98 TIME: 05:55:56

	Time	Pressure PSIg	delta P PSIg	P	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	133.00	2474.7	0.0		118.65		
***** Start Flow 1	0.00	94.1	0.0		118.66		
	1.00	84.3	-9.8		118.71		
	2.00	100.5	6.4		118.76		
	3.00	91.9	-2.2		118.75		
	4.00	94.9	0.8		118.63		
	5.00	133.3	39.2		118.39		
	6.00	115.1	21.0		117.45		
	7.00	144.9	50.8		115.63		
	8.00	139.3	45.2		114.29		
***** End Flow 1	9.00	130.3	36.3		113.60		
***** Start Shutin 1	0.00	130.3	0.0		113.60	0.0000	0.017
	1.00	1179.0	1048.7		113.00	10.0000	1.390
	2.00	1337.4	1207.1		113.40	5.5000	1.789
	3.00	1367.1	1236.8		114.43	4.0000	1.869
	4.00	1378.8	1248.5		115.28	3.2500	1.901
	5.00	1385.0	1254.6		115.76	2.8000	1.918
	6.00	1388.7	1258.3		115.94	2.5000	1.928
	7.00	1391.3	1260.9		115.95	2.2857	1.936
	8.00	1392.9	1262.6		115.83	2.1250	1.940
	9.00	1394.2	1263.9		115.68	2.0000	1.944
	10.00	1395.3	1265.0		115.50	1.9000	1.947
	11.00	1396.0	1265.7		115.31	1.8182	1.949
	12.00	1396.6	1266.3		115.09	1.7500	1.951
	13.00	1397.2	1266.9		114.88	1.6923	1.952
	14.00	1397.6	1267.3		114.66	1.6429	1.953
	15.00	1398.0	1267.6		114.46	1.6000	1.954
	16.00	1398.2	1267.9		114.27	1.5625	1.955
	17.00	1398.4	1268.1		114.13	1.5294	1.956
	18.00	1398.6	1268.3		114.05	1.5000	1.956
	19.00	1398.7	1268.4		114.00	1.4737	1.956
	20.00	1398.8	1268.5		114.00	1.4500	1.957
	21.00	1398.9	1268.6		114.02	1.4286	1.957
	22.00	1399.0	1268.7		114.06	1.4091	1.957
	23.00	1399.2	1268.9		114.11	1.3913	1.958
	24.00	1399.2	1268.9		114.19	1.3750	1.958
	25.00	1399.5	1269.1		114.26	1.3600	1.958
	26.00	1399.5	1269.2		114.34	1.3462	1.959
	27.00	1399.5	1269.2		114.42	1.3333	1.959
	28.00	1399.7	1269.4		114.51	1.3214	1.959
	29.00	1399.7	1269.4		114.62	1.3103	1.959
	30.00	1399.8	1269.5		114.69	1.3000	1.959
	31.00	1399.9	1269.5		114.79	1.2903	1.960
	32.00	1399.9	1269.5		114.88	1.2812	1.960
	33.00	1399.9	1269.5		114.96	1.2727	1.960
	34.00	1399.9	1269.5		115.07	1.2647	1.960
	35.00	1400.1	1269.8		115.17	1.2571	1.960
	36.00	1400.1	1269.8		115.24	1.2500	1.960
	37.00	1400.2	1269.9		115.34	1.2432	1.961
	38.00	1400.2	1269.9		115.44	1.2368	1.961
	39.00	1400.1	1269.8		115.54	1.2308	1.960

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10792 DST#3 Herd #34-13 Sam Gary Jr.

DATE: 06/01/98

TIME: 05:55:56  
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Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
40.00	1400.2	1269.9	115.62	1.2250	1.961
41.00	1400.2	1269.9	115.71	1.2195	1.961
42.00	1400.3	1270.0	115.79	1.2143	1.961
43.00	1400.3	1270.0	115.90	1.2093	1.961
44.00	1400.3	1270.0	115.98	1.2045	1.961
45.00	1400.3	1270.0	116.08	1.2000	1.961
46.00	1400.3	1270.0	116.18	1.1957	1.961
47.00	1400.4	1270.0	116.25	1.1915	1.961
48.00	1400.4	1270.0	116.34	1.1875	1.961
49.00	1400.5	1270.1	116.42	1.1837	1.961
50.00	1400.5	1270.1	116.51	1.1800	1.961
51.00	1400.5	1270.1	116.59	1.1765	1.961
52.00	1400.5	1270.2	116.68	1.1731	1.962
53.00	1400.5	1270.2	116.74	1.1698	1.962
54.00	1400.5	1270.2	116.83	1.1667	1.962
55.00	1400.5	1270.2	116.92	1.1636	1.962
56.00	1400.5	1270.2	116.98	1.1607	1.962
57.00	1400.5	1270.2	117.06	1.1579	1.962
58.00	1400.6	1270.3	117.14	1.1552	1.962
59.00	1400.6	1270.3	117.22	1.1525	1.962
60.00	1400.6	1270.3	117.28	1.1500	1.962
61.00	1400.6	1270.3	117.36	1.1475	1.962
62.00	1400.6	1270.3	117.44	1.1452	1.962
63.00	1400.7	1270.4	117.50	1.1429	1.962
64.00	1400.7	1270.4	117.57	1.1406	1.962
65.00	1400.7	1270.4	117.64	1.1385	1.962
66.00	1400.7	1270.4	117.71	1.1364	1.962
67.00	1400.7	1270.4	117.78	1.1343	1.962
68.00	1400.7	1270.4	117.85	1.1324	1.962
69.00	1400.6	1270.2	117.92	1.1304	1.962
70.00	1400.6	1270.2	118.01	1.1286	1.962
71.00	1400.8	1270.5	118.02	1.1268	1.962
72.00	1400.8	1270.5	118.07	1.1250	1.962
73.00	1400.8	1270.5	118.15	1.1233	1.962
74.00	1400.8	1270.5	118.22	1.1216	1.962
75.00	1400.8	1270.5	118.29	1.1200	1.962
76.00	1400.7	1270.4	118.34	1.1184	1.962
77.00	1400.7	1270.4	118.41	1.1169	1.962
78.00	1400.7	1270.4	118.46	1.1154	1.962
79.00	1400.7	1270.4	118.52	1.1139	1.962
80.00	1400.7	1270.4	118.58	1.1125	1.962
81.00	1400.7	1270.4	118.63	1.1111	1.962
82.00	1400.7	1270.4	118.69	1.1098	1.962
83.00	1400.7	1270.4	118.76	1.1084	1.962
84.00	1400.8	1270.5	118.77	1.1071	1.962
85.00	1400.7	1270.4	118.83	1.1059	1.962
86.00	1400.7	1270.4	118.88	1.1047	1.962
87.00	1400.8	1270.5	118.94	1.1034	1.962
88.00	1400.8	1270.5	119.01	1.1023	1.962
***** End Shut-in 1					
***** Start Flow 2	0.00	93.4	0.0	117.25	
	1.00	99.4	6.0	114.99	

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10792 DST#3 Herd #34-13 Sam Gary Jr.

DATE: 06/01/98

TIME: 05:55:56  
 -----

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
2.00	112.0	18.5	112.65		
3.00	115.8	22.4	110.34		
4.00	118.7	25.3	108.17		
5.00	120.1	26.7	106.20		
6.00	121.9	28.5	104.49		
7.00	123.2	29.8	103.06		
8.00	124.6	31.2	101.88		
9.00	125.8	32.4	100.95		
10.00	127.0	33.6	100.27		
11.00	128.1	34.7	99.83		
12.00	129.2	35.8	99.63		
13.00	130.2	36.8	99.66		
14.00	131.2	37.8	99.88		
15.00	132.3	38.9	100.28		
16.00	133.3	39.9	100.81		
17.00	134.5	41.1	101.50		
18.00	135.5	42.0	102.33		
19.00	136.7	43.3	103.26		
20.00	138.1	44.7	104.21		
21.00	139.6	46.2	105.19		
22.00	141.0	47.6	106.11		
23.00	142.2	48.8	106.98		
24.00	143.8	50.4	107.74		
25.00	145.3	51.9	108.35		
26.00	146.6	53.2	108.83		
27.00	148.0	54.6	109.21		
28.00	148.9	55.5	109.53		
29.00	149.9	56.5	109.83		
30.00	151.1	57.7	110.11		
31.00	152.2	58.7	110.35		
32.00	153.0	59.6	110.55		
33.00	154.1	60.7	110.75		
34.00	154.9	61.5	110.92		
35.00	155.7	62.3	111.06		
36.00	156.5	63.1	111.20		
37.00	157.5	64.1	111.31		
38.00	158.2	64.8	111.41		
39.00	159.1	65.7	111.47		
40.00	159.8	66.4	111.50		
41.00	160.5	67.1	111.50		
42.00	161.1	67.7	111.49		
43.00	161.7	68.3	111.45		
44.00	162.4	69.0	111.41		
45.00	163.3	69.9	111.35		
46.00	163.7	70.2	111.28		
47.00	164.5	71.1	111.22		
48.00	165.1	71.7	111.17		
49.00	165.7	72.3	111.10		
50.00	166.3	72.8	111.01		
51.00	167.2	73.8	110.59		
52.00	168.4	75.0	109.67		

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10792 DST#3 Herd #34-13 Sam Gary Jr.  
 DATE: 06/01/98 TIME: 05:55:56  
 -----

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	53.00	168.9	75.5	108.42		
	54.00	168.9	75.5	107.05		
	55.00	168.5	75.1	105.70		
	56.00	168.4	74.9	104.46		
	57.00	167.9	74.5	103.35		
*****	End Flow 2	58.00	167.9	74.5	102.35	
*****	Start Shutin 2	0.00	167.9	0.0	102.35	0.0000 0.028
	1.00	378.7	210.7	101.50	68.0000	0.143
	2.00	1243.6	1075.6	101.23	34.5000	1.546
	3.00	1294.4	1126.5	102.05	23.3333	1.675
	4.00	1315.6	1147.6	103.14	17.7500	1.731
	5.00	1328.3	1160.4	104.01	14.4000	1.764
	6.00	1337.6	1169.7	104.69	12.1667	1.789
	7.00	1344.5	1176.6	105.16	10.5714	1.808
	8.00	1349.8	1181.9	105.52	9.3750	1.822
	9.00	1354.1	1186.2	105.77	8.4444	1.834
	10.00	1357.7	1189.8	105.93	7.7000	1.843
	11.00	1360.7	1192.8	106.11	7.0909	1.852
	12.00	1363.2	1195.3	106.23	6.5833	1.858
	13.00	1365.5	1197.6	106.32	6.1538	1.865
	14.00	1367.3	1199.4	106.40	5.7857	1.870
	15.00	1369.0	1201.1	106.46	5.4667	1.874
	16.00	1370.5	1202.6	106.51	5.1875	1.878
	17.00	1371.9	1203.9	106.57	4.9412	1.882
	18.00	1373.1	1205.1	106.62	4.7222	1.885
	19.00	1374.2	1206.3	106.68	4.5263	1.888
	20.00	1375.2	1207.3	106.74	4.3500	1.891
	21.00	1376.2	1208.2	106.81	4.1905	1.894
	22.00	1377.1	1209.1	106.94	4.0455	1.896
	23.00	1377.9	1210.0	106.94	3.9130	1.899
	24.00	1378.7	1210.7	107.04	3.7917	1.901
	25.00	1379.3	1211.4	107.12	3.6800	1.903
	26.00	1379.9	1212.0	107.21	3.5769	1.904
	27.00	1380.7	1212.8	107.30	3.4815	1.906
	28.00	1381.3	1213.3	107.38	3.3929	1.908
	29.00	1381.9	1213.9	107.49	3.3103	1.910
	30.00	1382.4	1214.4	107.57	3.2333	1.911
	31.00	1382.9	1214.9	107.66	3.1613	1.912
	32.00	1383.4	1215.4	107.76	3.0938	1.914
	33.00	1383.8	1215.9	107.83	3.0303	1.915
	34.00	1384.3	1216.4	107.93	2.9706	1.916
	35.00	1384.7	1216.8	108.04	2.9143	1.917
	36.00	1385.1	1217.2	108.10	2.8611	1.919
	37.00	1385.6	1217.6	108.19	2.8108	1.920
	38.00	1385.9	1218.0	108.29	2.7632	1.921
	39.00	1386.3	1218.4	108.38	2.7179	1.922
	40.00	1386.6	1218.7	108.47	2.6750	1.923
	41.00	1387.1	1219.1	108.55	2.6341	1.924
	42.00	1387.4	1219.5	108.64	2.5952	1.925
	43.00	1387.7	1219.8	108.73	2.5581	1.926
	44.00	1388.0	1220.1	108.82	2.5227	1.927

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10792 DST#3 Herd #34-13 Sam Gary Jr.

DATE: 06/01/98

TIME: 05:55:56

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
45.00	1388.4	1220.5	108.91	2.4889	1.928
46.00	1388.7	1220.7	109.00	2.4565	1.928
47.00	1389.0	1221.1	109.10	2.4255	1.929
48.00	1389.2	1221.3	109.18	2.3958	1.930
49.00	1389.4	1221.5	109.27	2.3673	1.930
50.00	1389.8	1221.8	109.38	2.3400	1.931
51.00	1389.9	1222.0	109.44	2.3137	1.932
52.00	1390.3	1222.4	109.52	2.2885	1.933
53.00	1390.6	1222.7	109.61	2.2642	1.934
54.00	1390.8	1222.8	109.69	2.2407	1.934
55.00	1391.1	1223.2	109.77	2.2182	1.935
56.00	1391.3	1223.3	109.87	2.1964	1.936
57.00	1391.4	1223.5	109.95	2.1754	1.936
58.00	1391.6	1223.7	110.05	2.1552	1.937
59.00	1391.9	1223.9	110.11	2.1356	1.937
60.00	1392.1	1224.2	110.20	2.1167	1.938
61.00	1392.3	1224.3	110.29	2.0984	1.938
62.00	1392.5	1224.6	110.37	2.0806	1.939
63.00	1392.7	1224.8	110.46	2.0635	1.940
64.00	1392.9	1224.9	110.53	2.0469	1.940
65.00	1393.1	1225.2	110.61	2.0308	1.941
66.00	1393.3	1225.3	110.69	2.0152	1.941
67.00	1393.4	1225.5	110.79	2.0000	1.942
68.00	1393.6	1225.7	110.86	1.9853	1.942
69.00	1393.9	1225.9	110.95	1.9710	1.943
70.00	1394.0	1226.1	111.03	1.9571	1.943
71.00	1394.2	1226.3	111.10	1.9437	1.944
72.00	1394.3	1226.4	111.19	1.9306	1.944
73.00	1394.6	1226.7	111.25	1.9178	1.945
74.00	1394.8	1226.9	111.34	1.9054	1.945
75.00	1394.9	1226.9	111.43	1.8933	1.946
76.00	1395.0	1227.0	111.50	1.8816	1.946
77.00	1395.2	1227.3	111.57	1.8701	1.947
78.00	1395.5	1227.6	111.66	1.8590	1.948
79.00	1395.7	1227.8	111.73	1.8481	1.948
80.00	1395.9	1227.9	111.79	1.8375	1.948
81.00	1396.0	1228.1	111.87	1.8272	1.949
82.00	1396.2	1228.3	111.96	1.8171	1.949
83.00	1396.3	1228.4	112.02	1.8072	1.950
84.00	1396.5	1228.5	112.11	1.7976	1.950
85.00	1396.6	1228.6	112.16	1.7882	1.950
86.00	1396.7	1228.8	112.24	1.7791	1.951
87.00	1396.8	1228.9	112.32	1.7701	1.951
88.00	1396.9	1229.0	112.38	1.7614	1.951
89.00	1397.0	1229.0	112.46	1.7528	1.952
90.00	1397.1	1229.2	112.52	1.7444	1.952
91.00	1397.2	1229.3	112.60	1.7363	1.952
92.00	1397.4	1229.5	112.68	1.7283	1.953
93.00	1397.5	1229.5	112.74	1.7204	1.953
94.00	1397.6	1229.6	112.82	1.7128	1.953
95.00	1397.7	1229.8	112.89	1.7053	1.954

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 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tk#10792 DST#3 Herd #34-13 Sam Gary Jr.

DATE: 06/01/98

TIME: 05:55:56  
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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	96.00	1397.8	1229.9	112.96	1.6979	1.954
	97.00	1390.7	1222.7	113.03	1.6907	1.934
	98.00	1390.8	1222.8	113.10	1.6837	1.934
	99.00	1391.0	1223.0	113.17	1.6768	1.935
	100.00	1391.0	1223.0	113.25	1.6700	1.935
	101.00	1391.1	1223.1	113.33	1.6634	1.935
	102.00	1391.1	1223.1	113.48	1.6569	1.935
	103.00	1391.3	1223.4	113.46	1.6505	1.936
	104.00	1391.3	1223.4	113.47	1.6442	1.936
	105.00	1391.4	1223.5	113.52	1.6381	1.936
	106.00	1391.4	1223.5	113.58	1.6321	1.936
	107.00	1391.4	1223.5	113.68	1.6262	1.936
	108.00	1391.5	1223.6	113.75	1.6204	1.936
	109.00	1391.6	1223.7	113.81	1.6147	1.937
	110.00	1391.7	1223.8	113.88	1.6091	1.937
	111.00	1391.8	1223.9	113.95	1.6036	1.937
	112.00	1391.8	1223.9	114.01	1.5982	1.937
	113.00	1391.9	1224.0	114.07	1.5929	1.937
	114.00	1391.9	1224.0	114.13	1.5877	1.937
	115.00	1391.9	1224.0	114.19	1.5826	1.937
	116.00	1392.2	1224.2	114.25	1.5776	1.938
	117.00	1392.2	1224.2	114.31	1.5726	1.938
	118.00	1392.2	1224.3	114.38	1.5678	1.938
	119.00	1392.2	1224.3	114.43	1.5630	1.938
	120.00	1392.4	1224.5	114.50	1.5583	1.939
	121.00	1392.4	1224.5	114.55	1.5537	1.939
***** End Shut-in 2	122.00	1392.4	1224.5	114.61	1.5492	1.939
***** Final Hydro.	415.00	2475.3	0.0	115.37		

