

WELL NAME: 3M Farms # 1-3
COMPANY: Zinke & Trumbo Inc.
LOCATION: 3-31S-33W
Seward County Kansas
DATE: 04/09/97

TRILOBITE TESTING L.L.C.

OPERATOR : Zinke & Trumbo Inc.
 WELL NAME: 3M Farms # 1-3
 LOCATION : 3-31s-33w
 INTERVAL : 5399.00 To 5433.00 ft

DATE 4/7/97

KB 0.00 ft TICKET NO: 9131 DST #1
 GR 2915.00 ft FORMATION: Morrow
 TD 5433.00 ft TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11038	11038	2351			PF Fr. 1120 to 1150 hr
SI 60 Range(Psi)	5075.0	5075.0	4995.0	0.0	0.0	IS Fr. 1150 to 1250 hr
SF 60 Clock(hrs)	12 hr	12 hr	Elec.			SF Fr. 1250 to 1350 hr
FS 120 Depth(ft)	5430.0	5430.0	5409.0	0.0	0.0	FS Fr. 1350 to 1550 hr

	Field	1	2	3	4	
A. Init Hydro	2632.0	2668.0	2658.0	0.0	0.0	T STARTED 0900 hr
B. First Flow	55.0	91.0	27.0	0.0	0.0	T ON BOTM 1118 hr
B1. Final Flow	68.0	85.0	45.0	0.0	0.0	T OPEN 1120 hr
C. In Shut-in	970.0	1002.0	990.0	0.0	0.0	T PULLED 1550 hr
D. Init Flow	82.0	125.0	54.0	0.0	0.0	T OUT 1900 hr
E. Final Flow	82.0	1441.0	118.0	0.0	0.0	
F. Fl Shut-in	1310.0	1448.0	1444.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2606.0	2654.0	2604.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 95000.00 lbs
						Initial Str Wt 80000.00 lbs
						Unseated Str Wt 83000.00 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 556.00 ft
						D.P. Length 4840.00 ft

RECOVERY

Tot Fluid 70.00 ft of 60.00 ft in DC and 10.00 ft in DP
 70.00 ft of Slight Gas Cut Mud
 0.00 ft of 100% mud
 0.00 ft of
 300.00 ft of Gas In Pipe
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Fair to strong blow, bottom of bucket
 in 2 minutes

Initial Shut In:

No blow back

Final Flow:

Weak blow, built to 5"

Final Shut In:

No blow back

SAMPLES: No

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c
Vis.	45.00 S/L
W.L.	8.80 in ³
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 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	TOM HORACEK
Co. Rep.	DAVE HICKMAN
Contr.	Val Drlg.
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: 3M Farms # 1-3

LOCATION : 3-31s-33w

TICKET No. 9131 D.S.T. No. 1 DATE 4/7/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30 ft.

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 34 ft.

TOTAL TOOL 64 ft.

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.Stands9 Single Total 556 ft.

D.P. ABOVE TOOLS.Stands78 Single Total 4840 ft.

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5460 ft.

TOTAL DEPTH 5433 ft.

TOTAL DRILL PIPE ABOVE K.B. 27 ft.

REMARKS:

SAMPLER

4000 ml mud
1050 PSI

—	P.O. SUB	
—	C.O. SUB	5369
—	S.I. TOOL	5375
—	Sampler	5378
—	HMV Hyd. Tool	5383
—	JARS	5388
—	SAFETY JOINT	5390
■	PACKER Top	5394
■	PACKER Bottom	5399
—	DEPTH 5399	
—	STUBB 1 ft.	5400
—	ANCHOR Perf 3 ft.	5403
—	Perf 5 ft.	5408
—	Alpine Rec. @ 5409	
—	Perf 5 ft.	5413
—	T.C.	
—	DEPTH	
—	Perf 5 ft.	5418
—	Perf 5 ft.	5423
—	Perf 5 ft.	5428
—	AK-1 Rec. @ 5430	
—	BULLNOSE Bull Plug 5 ft.	5433
□	T.D.	5433

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9131 DST #1 3M Farms # 1-3 Zinke & Trumbo Inc.

DATE: 04/07/97

TIME: 07:46:59

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	148.00	2658.4	0.0	114.57		
***** Start Flow 1	0.00	27.6	0.0	114.81		
	1.00	29.0	1.4	115.01		
	2.00	29.9	2.3	115.20		
	3.00	31.0	3.4	115.38		
	4.00	33.0	5.4	115.54		
	5.00	35.1	7.5	115.70		
	6.00	35.9	8.3	115.82		
	7.00	36.3	8.7	115.94		
	8.00	37.3	9.7	116.05		
	9.00	37.9	10.3	116.16		
	10.00	38.4	10.8	116.26		
	11.00	39.4	11.7	116.37		
	12.00	39.8	12.2	116.50		
	13.00	39.7	12.1	116.64		
	14.00	39.1	11.5	116.79		
	15.00	41.0	13.4	116.95		
	16.00	40.9	13.3	117.11		
	17.00	41.7	14.1	117.27		
	18.00	41.4	13.8	117.43		
	19.00	42.5	14.9	117.60		
	20.00	43.8	16.2	117.76		
	21.00	43.4	15.8	117.92		
	22.00	42.2	14.6	118.06		
	23.00	43.6	16.0	118.18		
	24.00	43.3	15.7	118.27		
	25.00	44.5	16.9	118.34		
	26.00	44.1	16.4	118.40		
	27.00	44.1	16.4	118.44		
	28.00	44.6	17.0	118.49		
***** End Flow 1	29.00	45.0	17.4	118.54		
***** Start Shutin 1	0.00	45.0	0.0	118.54	0.0000	0.002
	1.00	44.5	-0.5	118.59	30.0000	0.002
	2.00	48.8	3.8	118.65	15.5000	0.002
	3.00	51.9	7.0	118.70	10.6667	0.003
	4.00	54.5	9.6	118.76	8.2500	0.003
	5.00	56.5	11.5	118.82	6.8000	0.003
	6.00	58.0	13.0	118.88	5.8333	0.003
	7.00	61.3	16.4	118.95	5.1429	0.004
	8.00	65.3	20.3	119.00	4.6250	0.004
	9.00	69.2	24.3	119.07	4.2222	0.005
	10.00	73.3	28.3	119.13	3.9000	0.005
	11.00	77.4	32.4	119.18	3.6364	0.006
	12.00	81.6	36.6	119.24	3.4167	0.007
	13.00	85.8	40.9	119.30	3.2308	0.007
	14.00	90.4	45.4	119.36	3.0714	0.008
	15.00	94.9	49.9	119.42	2.9333	0.009
	16.00	99.7	54.7	119.48	2.8125	0.01
	17.00	104.7	59.8	119.54	2.7059	0.011
	18.00	109.9	64.9	119.59	2.6111	0.012
	19.00	115.2	70.2	119.65	2.5263	0.013

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20.00	120.9	76.0	119.71	2.4500	0.015
21.00	126.8	81.8	119.76	2.3810	0.016
22.00	132.9	88.0	119.82	2.3182	0.018
23.00	139.5	94.5	119.88	2.2609	0.019
24.00	146.2	101.2	119.93	2.2083	0.021
25.00	153.3	108.4	119.99	2.1600	0.024
26.00	160.8	115.8	120.04	2.1154	0.026
27.00	168.8	123.8	120.09	2.0741	0.028
28.00	177.2	132.2	120.15	2.0357	0.031
29.00	186.1	141.1	120.20	2.0000	0.035
30.00	195.5	150.5	120.26	1.9667	0.038
31.00	205.4	160.5	120.30	1.9355	0.042
32.00	216.0	171.0	120.36	1.9062	0.047
33.00	227.4	182.4	120.41	1.8788	0.052
34.00	239.4	194.4	120.47	1.8529	0.057
35.00	252.2	207.2	120.52	1.8286	0.064
36.00	266.0	221.0	120.57	1.8056	0.071
37.00	280.6	235.7	120.63	1.7838	0.079
38.00	296.3	251.4	120.68	1.7632	0.088
39.00	313.0	268.1	120.73	1.7436	0.098
40.00	331.0	286.0	120.78	1.7250	0.110
41.00	350.1	305.2	120.84	1.7073	0.123
42.00	370.7	325.7	120.89	1.6905	0.137
43.00	392.8	347.8	120.95	1.6744	0.154
44.00	416.3	371.3	121.00	1.6591	0.173
45.00	441.5	396.5	121.05	1.6444	0.195
46.00	468.3	423.3	121.10	1.6304	0.219
47.00	496.8	451.9	121.15	1.6170	0.247
48.00	527.1	482.1	121.21	1.6042	0.278
49.00	558.9	513.9	121.26	1.5918	0.312
50.00	592.2	547.2	121.32	1.5800	0.351
51.00	627.0	582.0	121.38	1.5686	0.393
52.00	662.8	617.8	121.43	1.5577	0.439
53.00	699.6	654.6	121.48	1.5472	0.489
54.00	736.9	691.9	121.53	1.5370	0.543
55.00	774.6	729.6	121.59	1.5273	0.600
56.00	812.1	767.1	121.65	1.5179	0.659
57.00	849.2	804.2	121.68	1.5088	0.721
58.00	885.8	840.8	121.76	1.5000	0.785
59.00	921.5	876.5	121.82	1.4915	0.849
60.00	956.2	911.2	121.87	1.4833	0.914
61.00	989.7	944.7	121.92	1.4754	0.979
***** End Shut-in 1					
***** Start Flow 2					
0.00	53.9	0.0	121.95		
1.00	56.5	2.6	121.95		
2.00	58.5	4.6	121.92		
3.00	59.4	5.5	121.89		
4.00	59.4	5.5	121.89		
5.00	59.7	5.8	121.89		
6.00	60.2	6.3	121.89		
7.00	60.3	6.4	121.89		
8.00	60.8	7.0	121.92		

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	9.00	61.0	7.1	121.98		
	10.00	64.6	10.7	122.06		
	11.00	65.6	11.7	122.15		
	12.00	60.2	6.3	122.22		
	13.00	60.8	7.0	122.30		
	14.00	61.1	7.2	122.38		
	15.00	61.6	7.7	122.45		
	16.00	61.8	8.0	122.52		
	17.00	62.0	8.1	122.58		
	18.00	62.6	8.7	122.64		
	19.00	62.7	8.8	122.69		
	20.00	62.9	9.0	122.73		
	21.00	62.9	9.0	122.78		
	22.00	63.2	9.3	122.83		
	23.00	63.4	9.6	122.87		
	24.00	63.7	9.8	122.91		
	25.00	63.9	10.1	122.94		
	26.00	64.2	10.3	122.98		
	27.00	64.5	10.7	123.01		
	28.00	65.0	11.2	123.04		
	29.00	65.2	11.3	123.09		
	30.00	65.7	11.8	123.12		
	31.00	67.8	13.9	123.15		
	32.00	69.9	16.0	123.19		
	33.00	71.5	17.6	123.22		
	34.00	74.2	20.3	123.25		
	35.00	66.1	12.3	123.28		
	36.00	66.2	12.3	123.31		
	37.00	67.5	13.6	123.34		
	38.00	70.0	16.1	123.37		
	39.00	72.8	19.0	123.40		
	40.00	73.8	19.9	123.43		
	41.00	77.1	23.2	123.46		
	42.00	80.3	26.4	123.49		
	43.00	79.0	25.1	123.52		
	44.00	82.4	28.5	123.55		
	45.00	85.3	31.5	123.58		
	46.00	87.9	34.0	123.61		
	47.00	90.7	36.8	123.64		
	48.00	93.9	40.0	123.67		
	49.00	97.0	43.1	123.69		
	50.00	100.4	46.5	123.72		
	51.00	103.8	49.9	123.75		
	52.00	107.3	53.5	123.77		
	53.00	110.9	57.0	123.80		
	54.00	114.6	60.7	123.83		
***** End Flow 2	55.00	118.3	64.5	123.86		
***** Start Shutin 2	0.00	118.3	0.0	123.86	0.0000	0.014
	1.00	122.1	3.8	123.89	85.0000	0.015
	2.00	126.1	7.8	123.92	43.0000	0.016
	3.00	130.2	11.8	123.95	29.0000	0.017

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4.00	134.3	15.9	123.98	22.0000	0.018
5.00	138.3	20.0	124.00	17.8000	0.019
6.00	142.8	24.4	124.03	15.0000	0.020
7.00	147.4	29.0	124.06	13.0000	0.022
8.00	152.2	33.8	124.08	11.5000	0.023
9.00	157.0	38.7	124.12	10.3333	0.025
10.00	162.1	43.7	124.15	9.4000	0.026
11.00	167.3	48.9	124.18	8.6364	0.028
12.00	172.6	54.3	124.21	8.0000	0.030
13.00	178.3	59.9	124.24	7.4615	0.032
14.00	184.0	65.6	124.26	7.0000	0.034
15.00	190.0	71.7	124.30	6.6000	0.036
16.00	196.3	78.0	124.32	6.2500	0.039
17.00	203.0	84.7	124.35	5.9412	0.041
18.00	209.9	91.6	124.39	5.6667	0.044
19.00	217.1	98.8	124.42	5.4211	0.047
20.00	224.8	106.4	124.44	5.2000	0.051
21.00	232.6	114.2	124.47	5.0000	0.054
22.00	240.8	122.5	124.51	4.8182	0.058
23.00	249.5	131.2	124.54	4.6522	0.062
24.00	258.7	140.4	124.57	4.5000	0.067
25.00	268.4	150.1	124.60	4.3600	0.072
26.00	278.5	160.1	124.63	4.2308	0.078
27.00	289.1	170.8	124.67	4.1111	0.084
28.00	300.3	182.0	124.69	4.0000	0.090
29.00	312.0	193.7	124.73	3.8966	0.097
30.00	324.5	206.2	124.76	3.8000	0.105
31.00	337.8	219.5	124.79	3.7097	0.114
32.00	351.6	233.3	124.82	3.6250	0.124
33.00	366.4	248.1	124.86	3.5455	0.134
34.00	381.9	263.6	124.88	3.4706	0.146
35.00	398.5	280.2	124.92	3.4000	0.159
36.00	415.9	297.5	124.95	3.3333	0.173
37.00	434.2	315.9	124.98	3.2703	0.189
38.00	453.7	335.4	125.01	3.2105	0.206
39.00	474.2	355.9	125.05	3.1538	0.225
40.00	495.8	377.5	125.08	3.1000	0.246
41.00	518.7	400.3	125.10	3.0488	0.269
42.00	542.4	424.1	125.13	3.0000	0.294
43.00	567.5	449.2	125.21	2.9535	0.322
44.00	593.4	475.1	125.20	2.9091	0.352
45.00	620.6	502.2	125.24	2.8667	0.385
46.00	648.5	530.2	125.27	2.8261	0.421
47.00	677.2	558.9	125.31	2.7872	0.459
48.00	706.3	588.0	125.34	2.7500	0.499
49.00	736.0	617.6	125.48	2.7143	0.542
50.00	765.8	647.5	125.40	2.6800	0.586
51.00	795.9	677.5	125.44	2.6471	0.633
52.00	825.8	707.4	125.47	2.6154	0.682
53.00	855.4	737.1	125.52	2.5849	0.732
54.00	884.7	766.3	125.55	2.5556	0.783

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55.00	913.4	795.0	125.58	2.5273	0.834
56.00	941.3	823.0	125.61	2.5000	0.886
57.00	968.5	850.2	125.65	2.4737	0.938
58.00	995.0	876.6	125.69	2.4483	0.990
59.00	1020.5	902.1	125.71	2.4237	1.041
60.00	1045.0	926.6	125.74	2.4000	1.092
61.00	1068.4	950.1	125.77	2.3770	1.141
62.00	1090.8	972.5	125.82	2.3548	1.190
63.00	1112.3	994.0	125.84	2.3333	1.237
64.00	1132.5	1014.2	125.87	2.3125	1.283
65.00	1152.2	1033.8	125.91	2.2923	1.327
66.00	1170.7	1052.4	125.93	2.2727	1.371
67.00	1188.2	1069.9	125.96	2.2537	1.412
68.00	1204.9	1086.5	126.00	2.2353	1.452
69.00	1219.9	1101.6	126.04	2.2174	1.488
70.00	1234.9	1116.6	126.05	2.2000	1.525
71.00	1249.2	1130.8	126.08	2.1831	1.560
72.00	1262.4	1144.1	126.10	2.1667	1.594
73.00	1275.0	1156.7	126.12	2.1507	1.626
74.00	1269.4	1151.1	126.15	2.1351	1.611
75.00	1265.0	1146.7	126.17	2.1200	1.600
76.00	1260.3	1141.9	126.19	2.1053	1.588
77.00	1265.9	1147.5	126.22	2.0909	1.602
78.00	1273.3	1155.0	126.23	2.0769	1.621
79.00	1280.3	1162.0	126.26	2.0633	1.639
80.00	1288.0	1169.7	126.27	2.0500	1.659
81.00	1298.3	1179.9	126.29	2.0370	1.686
82.00	1306.6	1188.3	126.31	2.0244	1.707
83.00	1315.1	1196.7	126.32	2.0120	1.729
84.00	1322.9	1204.5	126.34	2.0000	1.750
85.00	1338.3	1220.0	126.35	1.9882	1.791
86.00	1350.6	1232.2	126.38	1.9767	1.824
87.00	1342.7	1224.3	126.40	1.9655	1.803
88.00	1342.0	1223.7	126.41	1.9545	1.801
89.00	1342.9	1224.6	126.42	1.9438	1.803
90.00	1344.7	1226.4	126.43	1.9333	1.808
91.00	1351.8	1233.5	126.45	1.9231	1.827
92.00	1356.3	1238.0	126.47	1.9130	1.840
93.00	1364.1	1245.7	126.49	1.9032	1.861
94.00	1377.8	1259.5	126.51	1.8936	1.898
95.00	1375.4	1257.1	126.52	1.8842	1.892
96.00	1378.0	1259.7	126.54	1.8750	1.899
97.00	1380.9	1262.5	126.55	1.8660	1.907
98.00	1383.1	1264.8	126.58	1.8571	1.913
99.00	1378.6	1260.3	126.58	1.8485	1.901
100.00	1370.8	1252.5	126.60	1.8400	1.879
101.00	1377.1	1258.7	126.61	1.8317	1.896
102.00	1375.1	1256.8	126.62	1.8235	1.891
103.00	1375.0	1256.7	126.64	1.8155	1.891
104.00	1378.5	1260.2	126.66	1.8077	1.900
105.00	1383.4	1265.0	126.66	1.8000	1.914

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9131 DST #1 3M Farms # 1-3 Zinke & Trumbo Inc.

DATE: 04/07/97

TIME: 07:46:59

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	106.00	1386.6	1268.2	126.68	1.7925	1.923
	107.00	1385.9	1267.6	126.70	1.7850	1.921
	108.00	1387.5	1269.2	126.71	1.7778	1.925
	109.00	1389.5	1271.2	126.72	1.7706	1.931
	110.00	1388.2	1269.8	126.74	1.7636	1.927
	111.00	1389.7	1271.3	126.75	1.7568	1.931
	112.00	1394.8	1276.5	126.77	1.7500	1.945
	113.00	1398.1	1279.7	126.78	1.7434	1.955
	114.00	1397.1	1278.8	126.79	1.7368	1.952
	115.00	1396.5	1278.1	126.81	1.7304	1.950
	116.00	1400.4	1282.1	126.83	1.7241	1.961
	117.00	1402.1	1283.8	126.84	1.7179	1.966
	118.00	1406.0	1287.6	126.86	1.7119	1.977
	119.00	1406.1	1287.8	126.88	1.7059	1.977
	120.00	1408.1	1289.8	126.88	1.7000	1.983
	121.00	1414.3	1295.9	126.90	1.6942	2.000
	122.00	1423.6	1305.2	126.91	1.6885	2.027
	123.00	1435.7	1317.3	126.93	1.6829	2.061
***** End Shut-in 2	124.00	1444.6	1326.2	126.95	1.6774	2.087
***** Final Hydro.	421.00	2603.8	0.0	127.05		

TEST HISTORY

9131 DST #1 3M Farms # 1-3 Zinke & Trumbo Inc.

Flag Points

t (Min.) P (PSig)

A:	0.00	2658.41
B:	0.00	27.60
C:	29.00	44.98
D:	61.00	989.67
E:	0.00	53.87
F:	55.00	118.33
G:	124.00	1444.56
Q:	0.00	2603.77

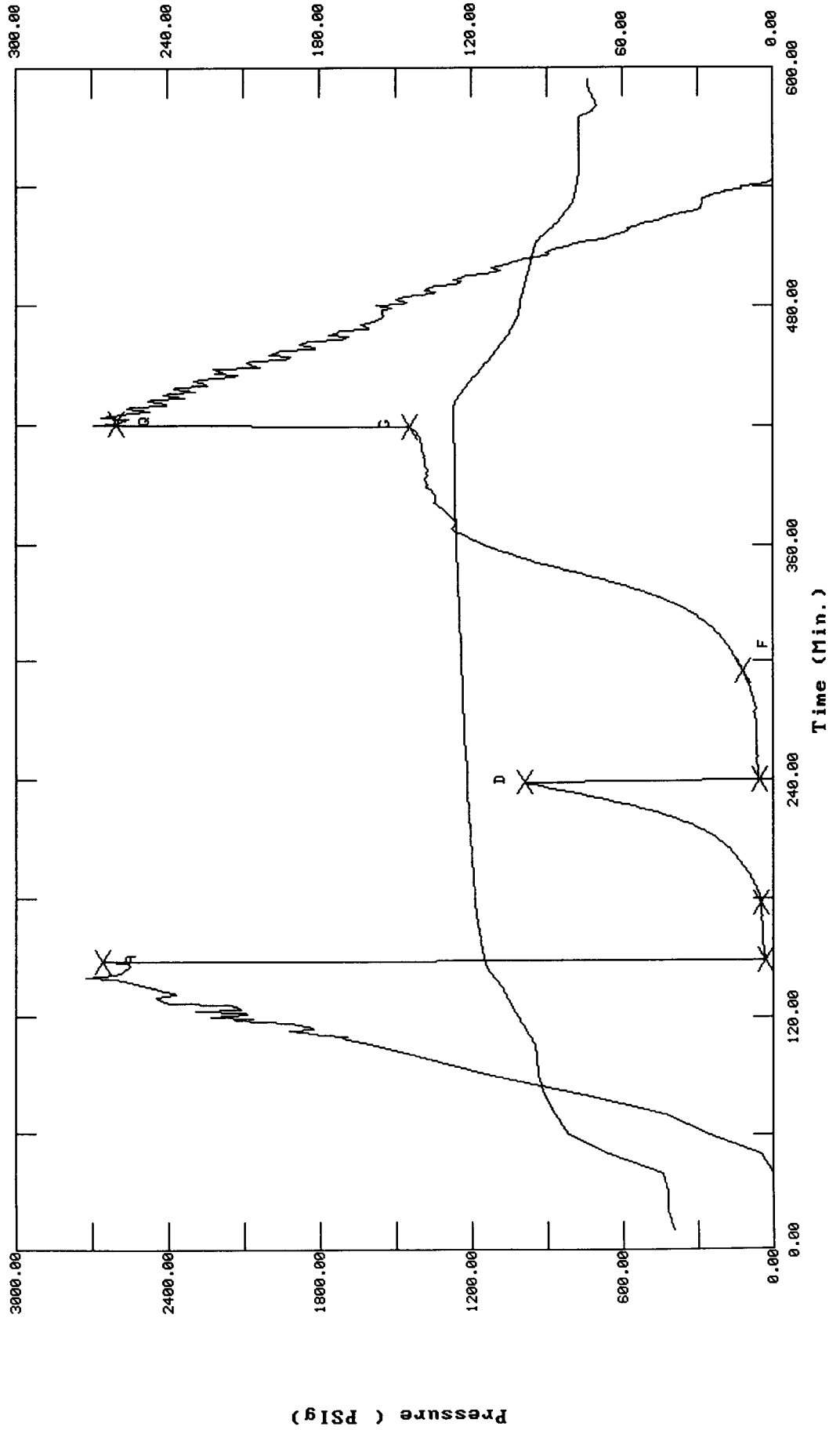
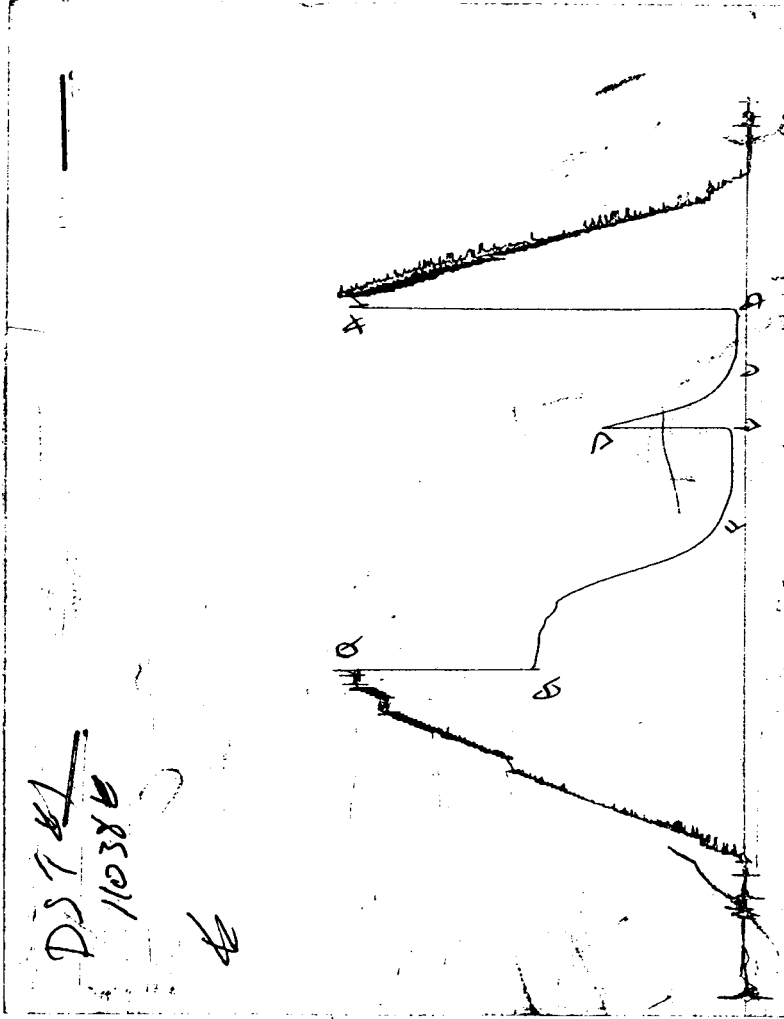


CHART PAGE



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. 9131 Date 4-7-97
Company Name Zinke & Trumbo Inc.
Lease 3M Farms # 1-3 Test No. 41
County Seward Ks. Sec. 3 Twp. 31 S Rng. 33 W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure 1050 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 2,000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 45
Mud Weight 9.3
Filtrate 8.8
Other LCM 2#

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.