

RELEASED

15-175-21640

Computer Inventoried

ORIGINAL

OCT 6 1998

WELL NAME:

Hoffman #1-2

COMPANY:

Zinke & Trumbo, Inc.

LOCATION:

2-31S-33W

FROM CONFIDENTIAL

DATE:

Seward County Kansas

07/30/97

Computer Inventoried

CONFIDENTIAL

TRILOBITE TESTING L.L.C.

OPERATOR : Zinke & Trumbo Inc.

DATE 7-27-97

WELL NAME: Hoffman #1-2

KB 2898.00 ft

TICKET NO: 10310

DST #1

LOCATION : 2-31S-33W Seward KS.

GR 2893.00 ft

FORMATION: Morrow

INTERVAL : 5292.00 To 5384.00 ft

TD 5384.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2341			PF Fr. 1727 to 1757 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1757 to 1857 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 1857 to 1957 hr
FS 120 Depth(ft)	5379.0	5379.0	5295.0	0.0	0.0	FS Fr. 1957 to 2157 hr

	Field	1	2	3	4	
A. Init Hydro	2622.0	2677.0	2594.0	0.0	0.0	T STARTED 1423 hr
B. First Flow	52.0	65.0	15.0	0.0	0.0	T ON BOTM 1725 hr
Bl. Final Flow	52.0	65.0	19.0	0.0	0.0	T OPEN 1727 hr
C. In Shut-in	519.0	537.0	543.0	0.0	0.0	T PULLED 2157 hr
D. Init Flow	41.0	60.0	16.0	0.0	0.0	T OUT 0030 hr
E. Final Flow	41.0	60.0	19.0	0.0	0.0	
F. Fl Shut-in	969.0	989.0	998.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2480.0	2524.0	2451.0	0.0	0.0	Tool Wt. 2000.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 70000.00 lbs
						Initial Str Wt 58000.00 lbs
						Unseated Str Wt 64000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.88 in
						D Col. ID 0.00 in
						D. Pipe ID 3.80 in
						D.C. Length 0.00 ft
						D.P. Length 5291.00 ft

RECOVERY

Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
 30.00 ft of Drilling Mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

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

BLOW DESCRIPTION

Initial Flow:

Fair to strong blow off bottom in
 4 mins.

Initial Shut In:

Bled off blow - no return

Final Flow:

Strong blow off bottom immediately
 Decreased to 4" blow at final

Final Shut In:

Bled off blow - no return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type Chemical
 Weight 9.20 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. 135.00 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 Rod Steinbrink
 Co. Rep. Wes Hansen
 Contr. Val Energy
 Rig # 1
 Unit #
 Pump T.

Test Successful: Y

*** TOOL DIAGRAM *** CONV

WELL NAME: Hoffman #1-2

LOCATION : 2-31S-33W Seward KS.

TICKET No. 10310 D.S.T. No. 1 DATE 7-27-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 30

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 60

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single 1 Total 31

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 122

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands85 Single Total 5291

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5413

TOTAL DEPTH 5384

TOTAL DRILL PIPE ABOVE K.B. 31

REMARKS:

Sampler Data:

Gas; 4000 ml

Oil;

Water;

Mud;

Total Volume; 4000 ml

Pressure; 800 # psi

P.O. SUB 1' Above 120' DP 5142

C.O. SUB 1' 5262

S.I. TOOL 5' 5268

3' Sampler 5271

HMV 5' 5276

JARS 5' 5281

SAFETY JOINT 2' 5283

PACKER 4' 5287

PACKER 5' 5292

DEPTH

STUBB 1' 5293

ANCHOR

Alpine Rec. @ 5295

22' Perf 5315

1' CO Sub 5314

31' DP 5347

31' DC 5378

1' CO Sub 5379

T.C.

DEPTH

AK-1 Rec. @ 5379

BULLNOSE 5' 5384

T.D.

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10310 DST #1 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/27/97 TIME: 14:23:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dt)/dt	P^2/10^6
***** Initial Hydro.	181.00	2594.0	0.0	127.32		
***** Start Flow 1	0.00	15.2	0.0	127.53		
	1.00	14.7	-0.6	127.70		
	2.00	16.7	1.5	127.92		
	3.00	15.6	0.4	128.09		
	4.00	17.0	1.8	128.26		
	5.00	15.0	-0.3	128.41		
	6.00	15.7	0.4	128.51		
	7.00	16.4	1.1	128.60		
	8.00	17.9	2.7	128.70		
	9.00	17.9	2.7	128.76		
	10.00	15.2	-0.0	128.83		
	11.00	16.1	0.9	128.88		
	12.00	16.5	1.2	128.94		
	13.00	16.0	0.7	128.97		
	14.00	17.4	2.2	129.02		
	15.00	16.8	1.6	129.07		
	16.00	17.4	2.2	129.09		
	17.00	17.8	2.5	129.16		
	18.00	16.7	1.4	129.19		
	19.00	17.2	1.9	129.22		
	20.00	18.6	3.4	129.27		
	21.00	18.3	3.0	129.28		
	22.00	18.8	3.5	129.31		
	23.00	18.3	3.0	129.35		
	24.00	16.9	1.6	129.38		
	25.00	17.1	1.9	129.40		
	26.00	18.5	3.3	129.42		
	27.00	19.0	3.8	129.45		
	28.00	18.2	3.0	129.47		
***** End Flow 1	29.00	18.7	3.5	129.49		
***** Start Shutin 1	0.00	18.7	0.0	129.49	0.0000	0.000
	1.00	23.6	4.9	129.52	30.0000	0.001
	2.00	32.1	13.4	129.53	15.5000	0.001
	3.00	40.6	21.9	129.56	10.6667	0.002
	4.00	48.6	29.9	129.58	8.2500	0.002
	5.00	56.5	37.8	129.59	6.8000	0.003
	6.00	64.3	45.6	129.61	5.8333	0.004
	7.00	72.1	53.4	129.62	5.1429	0.005
	8.00	80.0	61.3	129.64	4.6250	0.006
	9.00	88.0	69.3	129.65	4.2222	0.008
	10.00	96.0	77.3	129.67	3.9000	0.009
	11.00	104.1	85.4	129.68	3.6364	0.011
	12.00	112.3	93.6	129.70	3.4167	0.013
	13.00	120.5	101.8	129.71	3.2308	0.015
	14.00	128.9	110.2	129.72	3.0714	0.017
	15.00	137.3	118.6	129.73	2.9333	0.019
	16.00	145.9	127.2	129.75	2.8125	0.021
	17.00	154.4	135.7	129.77	2.7059	0.024
	18.00	163.1	144.4	129.77	2.6111	0.027
	19.00	171.8	153.0	129.80	2.5263	0.029

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	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	20.00	180.6	161.8	129.81	2.4500	0.033
	21.00	189.4	170.7	129.82	2.3810	0.036
	22.00	198.4	179.7	129.84	2.3182	0.039
	23.00	207.2	188.5	129.85	2.2609	0.043
	24.00	216.2	197.5	129.88	2.2083	0.047
	25.00	225.2	206.5	129.90	2.1600	0.051
	26.00	234.3	215.6	129.91	2.1154	0.055
	27.00	243.4	224.7	129.94	2.0741	0.059
	28.00	252.6	233.9	129.95	2.0357	0.064
	29.00	261.7	243.0	129.98	2.0000	0.068
	30.00	270.9	252.2	129.99	1.9667	0.073
	31.00	280.0	261.3	130.01	1.9355	0.078
	32.00	289.2	270.5	130.03	1.9062	0.084
	33.00	298.5	279.8	130.05	1.8788	0.089
	34.00	307.9	289.2	130.07	1.8529	0.095
	35.00	317.1	298.4	130.09	1.8286	0.101
	36.00	326.3	307.6	130.11	1.8056	0.106
	37.00	335.5	316.8	130.14	1.7838	0.113
	38.00	344.8	326.1	130.16	1.7632	0.119
	39.00	354.0	335.3	130.19	1.7436	0.125
	40.00	363.2	344.5	130.21	1.7250	0.132
	41.00	372.4	353.7	130.23	1.7073	0.139
	42.00	381.7	362.9	130.28	1.6905	0.146
	43.00	390.8	372.1	130.34	1.6744	0.153
	44.00	399.9	381.2	130.37	1.6591	0.160
	45.00	409.2	390.5	130.41	1.6444	0.167
	46.00	418.3	399.6	130.45	1.6304	0.175
	47.00	427.3	408.6	130.51	1.6170	0.183
	48.00	436.4	417.7	130.54	1.6042	0.190
	49.00	445.5	426.8	130.59	1.5918	0.199
	50.00	454.6	435.9	130.65	1.5800	0.207
	51.00	463.7	445.0	130.70	1.5686	0.215
	52.00	472.6	453.9	130.75	1.5577	0.223
	53.00	481.5	462.8	130.81	1.5472	0.232
	54.00	490.4	471.7	130.89	1.5370	0.241
	55.00	499.3	480.6	130.95	1.5273	0.249
	56.00	508.0	489.3	131.02	1.5179	0.258
	57.00	516.8	498.1	131.09	1.5088	0.267
	58.00	525.5	506.8	131.15	1.5000	0.276
	59.00	534.2	515.5	131.22	1.4915	0.285
***** End Shut-in 1	60.00	542.8	524.1	131.30	1.4833	0.295
***** Start Flow 2	0.00	16.1	0.0	131.28		
	1.00	16.5	0.4	131.24		
	2.00	17.3	1.2	131.16		
	3.00	16.5	0.4	131.10		
	4.00	15.6	-0.5	131.06		
	5.00	15.8	-0.3	131.04		
	6.00	15.3	-0.8	131.02		
	7.00	16.4	0.3	131.01		
	8.00	15.7	-0.5	131.01		
	9.00	15.5	-0.6	131.01		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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10.00	15.8	-0.3	131.02		
11.00	16.7	0.6	131.02		
12.00	15.8	-0.3	131.05		
13.00	16.0	-0.1	131.05		
14.00	16.4	0.3	131.08		
15.00	17.5	1.4	131.08		
16.00	16.1	0.0	131.10		
17.00	16.3	0.2	131.11		
18.00	16.5	0.4	131.13		
19.00	16.8	0.7	131.15		
20.00	16.4	0.3	131.16		
21.00	16.7	0.6	131.18		
22.00	16.7	0.6	131.19		
23.00	16.7	0.6	131.21		
24.00	16.4	0.3	131.22		
25.00	17.1	1.0	131.25		
26.00	16.0	-0.1	131.27		
27.00	16.4	0.3	131.27		
28.00	18.2	2.1	131.30		
29.00	17.2	1.0	131.30		
30.00	17.7	1.6	131.32		
31.00	17.3	1.2	131.33		
32.00	18.3	2.1	131.33		
33.00	16.8	0.7	131.35		
34.00	17.0	0.9	131.37		
35.00	17.2	1.0	131.38		
36.00	18.2	2.1	131.39		
37.00	17.5	1.4	131.40		
38.00	17.2	1.1	131.42		
39.00	17.7	1.6	131.41		
40.00	17.5	1.4	131.45		
41.00	17.2	1.1	131.47		
42.00	17.2	1.1	131.47		
43.00	17.4	1.3	131.47		
44.00	18.5	2.4	131.50		
45.00	17.9	1.7	131.51		
46.00	19.0	2.9	131.53		
47.00	17.6	1.5	131.53		
48.00	17.7	1.6	131.55		
49.00	17.7	1.6	131.55		
50.00	18.4	2.3	131.59		
51.00	17.6	1.5	131.59		
52.00	18.4	2.2	131.61		
53.00	17.6	1.5	131.61		
54.00	18.4	2.2	131.63		
55.00	17.9	1.8	131.64		
56.00	19.0	2.9	131.66		
57.00	17.4	1.3	131.67		
58.00	18.0	1.8	131.68		
59.00	19.3	3.2	131.69		
60.00	19.1	3.0	131.71		

***** End Flow 2

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 07/27/97

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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Start Shutin 2	0.00	19.1	0.0	131.71	0.0000	0.000
	1.00	27.6	8.5	131.72	90.0000	0.001
	2.00	41.2	22.1	131.73	45.5000	0.002
	3.00	54.3	35.2	131.75	30.6667	0.003
	4.00	67.1	48.0	131.74	23.2500	0.004
	5.00	79.5	60.4	131.76	18.8000	0.006
	6.00	91.7	72.6	131.77	15.8333	0.008
	7.00	103.8	84.7	131.78	13.7143	0.011
	8.00	115.6	96.5	131.82	12.1250	0.013
	9.00	127.4	108.3	131.86	10.8889	0.016
	10.00	139.4	120.3	131.94	9.9000	0.019
	11.00	151.0	131.9	131.99	9.0909	0.023
	12.00	162.5	143.4	132.07	8.4167	0.026
	13.00	174.0	154.9	132.15	7.8462	0.030
	14.00	185.4	166.3	132.23	7.3571	0.034
	15.00	196.8	177.7	132.31	6.9333	0.039
	16.00	208.0	188.9	132.38	6.5625	0.043
	17.00	219.1	200.0	132.46	6.2353	0.048
	18.00	230.2	211.1	132.52	5.9444	0.053
	19.00	241.2	222.1	132.59	5.6842	0.058
	20.00	252.1	233.0	132.66	5.4500	0.064
	21.00	262.9	243.8	132.73	5.2381	0.069
	22.00	273.7	254.6	132.79	5.0455	0.075
	23.00	284.3	265.2	132.87	4.8696	0.081
	24.00	294.8	275.7	132.92	4.7083	0.087
	25.00	305.3	286.2	132.98	4.5600	0.093
	26.00	315.8	296.7	133.04	4.4231	0.10
	27.00	326.1	307.0	133.09	4.2963	0.106
	28.00	336.4	317.3	133.15	4.1786	0.113
	29.00	346.6	327.5	133.20	4.0690	0.120
	30.00	356.5	337.4	133.25	3.9667	0.127
	31.00	366.6	347.5	133.31	3.8710	0.134
	32.00	376.5	357.4	133.37	3.7812	0.142
	33.00	386.4	367.3	133.43	3.6970	0.149
	34.00	396.3	377.2	133.51	3.6176	0.157
	35.00	406.1	387.0	133.56	3.5429	0.165
	36.00	415.6	396.5	133.61	3.4722	0.173
	37.00	425.2	406.1	133.65	3.4054	0.181
	38.00	434.8	415.7	133.70	3.3421	0.189
	39.00	444.2	425.1	133.74	3.2821	0.197
	40.00	453.5	434.4	133.79	3.2250	0.206
	41.00	462.9	443.8	133.84	3.1707	0.214
	42.00	472.0	452.9	133.90	3.1190	0.223
	43.00	481.1	462.0	133.92	3.0698	0.231
	44.00	490.1	471.0	133.97	3.0227	0.240
	45.00	499.1	480.0	134.02	2.9778	0.249
	46.00	508.1	489.0	134.07	2.9348	0.258
	47.00	516.9	497.8	134.10	2.8936	0.267
	48.00	525.7	506.6	134.15	2.8542	0.276
	49.00	534.6	515.5	134.20	2.8163	0.286
	50.00	543.2	524.1	134.25	2.7800	0.295

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Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
51.00	551.9	532.8	134.28	2.7451	0.305
52.00	560.3	541.2	134.32	2.7115	0.314
53.00	568.8	549.7	134.37	2.6792	0.324
54.00	577.1	558.0	134.41	2.6481	0.333
55.00	585.4	566.3	134.46	2.6182	0.343
56.00	593.7	574.6	134.49	2.5893	0.353
57.00	601.9	582.8	134.54	2.5614	0.362
58.00	610.0	590.9	134.57	2.5345	0.372
59.00	618.0	598.9	134.62	2.5085	0.382
60.00	626.0	606.9	134.66	2.4833	0.392
61.00	633.9	614.7	134.70	2.4590	0.402
62.00	641.7	622.6	134.74	2.4355	0.412
63.00	649.4	630.3	134.78	2.4127	0.422
64.00	657.1	638.0	134.82	2.3906	0.432
65.00	664.8	645.7	134.86	2.3692	0.442
66.00	672.5	653.4	134.92	2.3485	0.452
67.00	680.0	660.9	134.95	2.3284	0.462
68.00	687.5	668.4	134.97	2.3088	0.473
69.00	694.9	675.8	134.98	2.2899	0.483
70.00	702.3	683.2	134.98	2.2714	0.493
71.00	709.4	690.3	134.98	2.2535	0.503
72.00	716.8	697.7	134.99	2.2361	0.514
73.00	723.9	704.8	135.02	2.2192	0.524
74.00	731.1	712.0	135.03	2.2027	0.534
75.00	738.2	719.1	135.04	2.1867	0.545
76.00	745.1	726.0	135.05	2.1711	0.555
77.00	752.0	732.9	135.08	2.1558	0.566
78.00	759.0	739.9	135.09	2.1410	0.576
79.00	765.7	746.6	135.11	2.1266	0.586
80.00	772.5	753.4	135.11	2.1125	0.597
81.00	779.3	760.2	135.13	2.0988	0.607
82.00	785.9	766.8	135.16	2.0854	0.618
83.00	792.5	773.4	135.19	2.0723	0.628
84.00	799.0	779.9	135.19	2.0595	0.638
85.00	805.6	786.5	135.21	2.0471	0.649
86.00	812.0	792.9	135.23	2.0349	0.659
87.00	818.3	799.2	135.25	2.0230	0.670
88.00	824.5	805.4	135.26	2.0114	0.680
89.00	830.9	811.8	135.29	2.0000	0.690
90.00	837.3	818.2	135.30	1.9889	0.701
91.00	843.3	824.2	135.33	1.9780	0.711
92.00	849.5	830.4	135.34	1.9674	0.722
93.00	855.6	836.5	135.38	1.9570	0.732
94.00	861.5	842.4	135.41	1.9468	0.742
95.00	867.5	848.4	135.42	1.9368	0.753
96.00	873.5	854.4	135.43	1.9271	0.763
97.00	879.4	860.3	135.46	1.9175	0.773
98.00	885.2	866.1	135.48	1.9082	0.784
99.00	891.0	871.9	135.49	1.8990	0.794
100.00	896.8	877.7	135.52	1.8900	0.804
101.00	902.4	883.3	135.56	1.8812	0.814

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10310 DST #1 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/27/97

TIME: 14:23:40

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dt)/dt	P^2/10^6
	102.00	908.2	889.1	135.58	1.8725	0.825
	103.00	913.7	894.6	135.60	1.8641	0.835
	104.00	919.1	900.0	135.63	1.8558	0.845
	105.00	924.7	905.6	135.66	1.8476	0.855
	106.00	930.3	911.2	135.70	1.8396	0.865
	107.00	935.7	916.6	135.71	1.8318	0.876
	108.00	941.2	922.1	135.74	1.8241	0.886
	109.00	946.6	927.5	135.77	1.8165	0.896
	110.00	951.8	932.7	135.80	1.8091	0.906
	111.00	957.0	937.9	135.83	1.8018	0.916
	112.00	962.2	943.1	135.86	1.7946	0.926
	113.00	967.4	948.3	135.89	1.7876	0.936
	114.00	972.6	953.5	135.91	1.7807	0.946
	115.00	977.7	958.6	135.93	1.7739	0.956
	116.00	982.8	963.7	135.95	1.7672	0.966
	117.00	987.8	968.7	135.98	1.7607	0.976
	118.00	992.8	973.7	135.98	1.7542	0.986
***** End Shut-in 2	119.00	997.7	978.6	135.99	1.7479	0.995
***** Final Hydro.	456.00	2450.7	0.0	135.93		

TEST HISTORY

10310 DST #1 Hoffman #1-2 Zinke & Trumbo Inc..

Flag Points

t (Min.) P (PSig)

A: 0.00 2593.96
 B: 0.00 15.24
 C: 29.00 18.71
 D: 60.00 542.81
 E: 0.00 16.11
 F: 60.00 19.10
 G: 119.00 997.73
 H: 0.00 2450.68

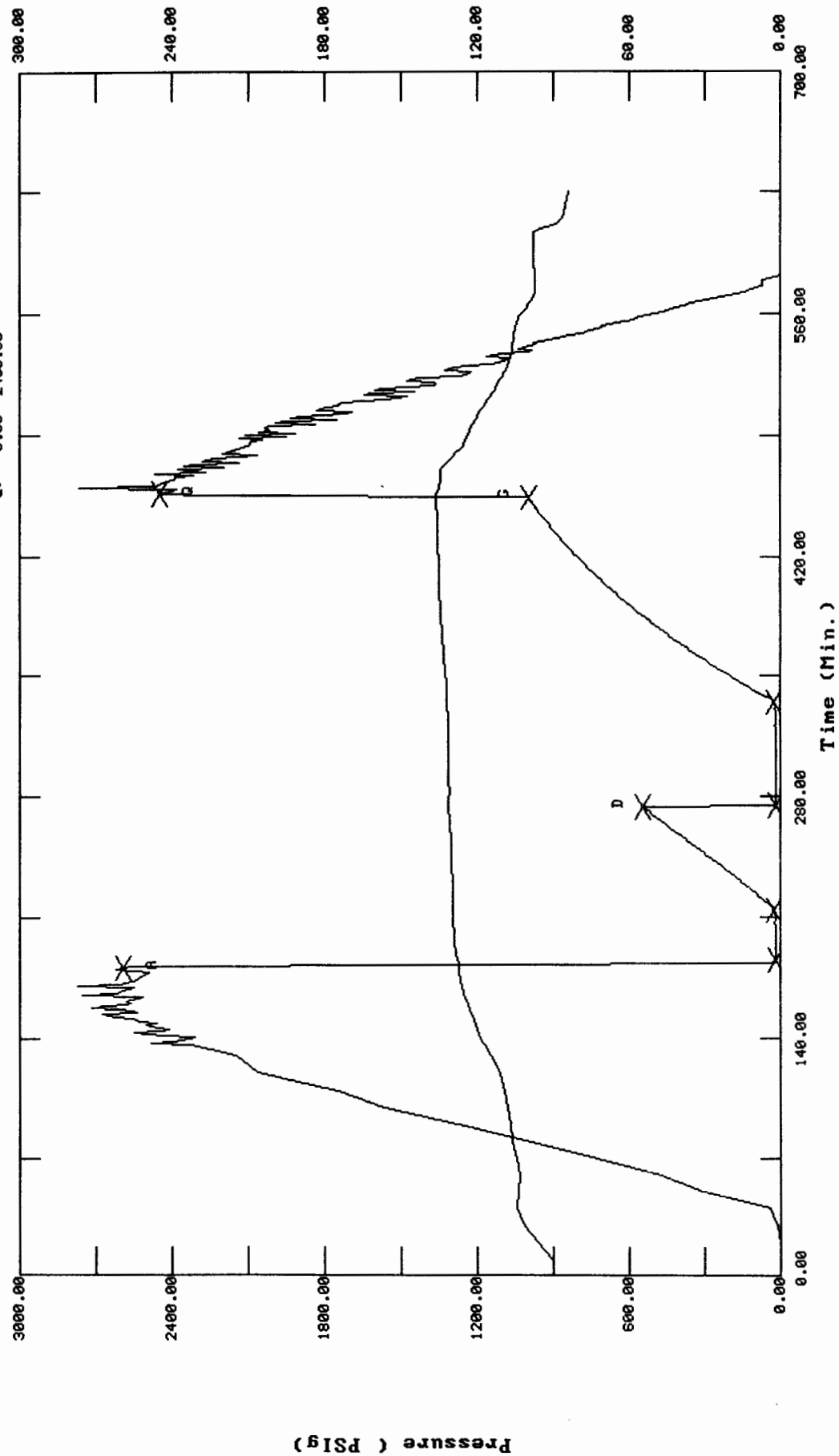
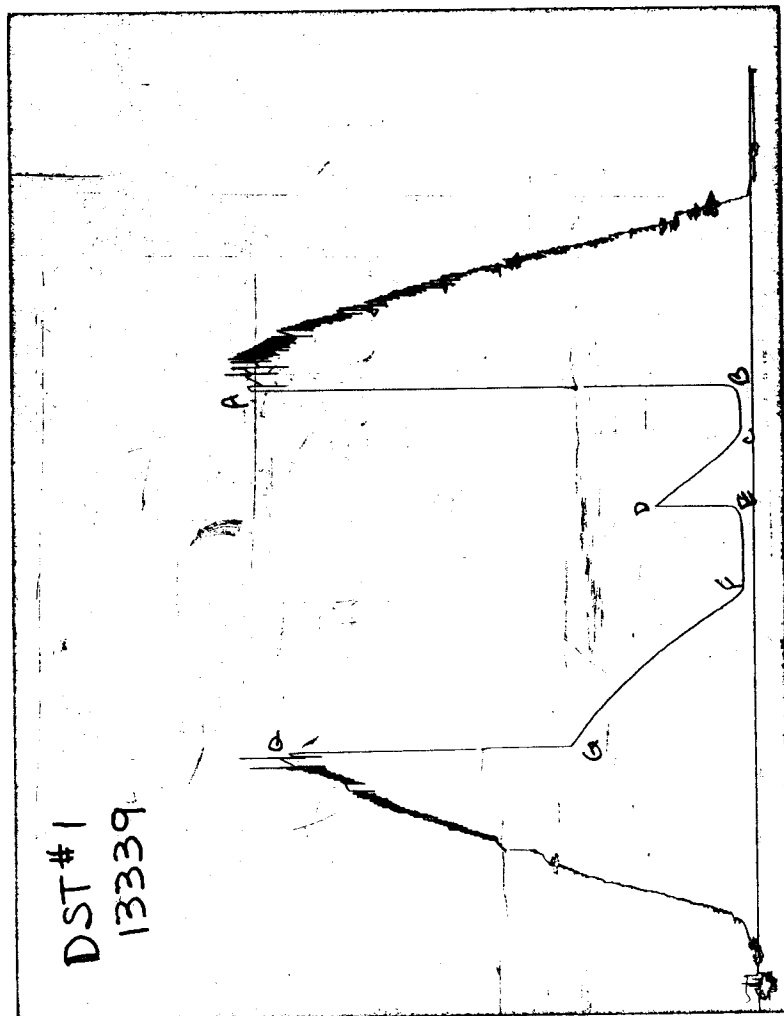


CHART PAGE



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 10310

Well Name & No.	Hoffman #1-2	Test No.	1	Date	7-27-97
Company	Zinke & Trumbo, Inc.	Zone Tested	Morrow		
Address	1202 East 33 rd Ste 100 Tulsa, OK 74105	Elevation	2898	KB	2893GL
Co. Rep / Geo.	Wes Hansen	Cont.	Val Energy #1	Est. Ft. of Pay	13' Por. %
Location: Sec.	2	Twp.	31 ^S	Rge.	33 ^W
Co.	Seward	State	KS		
No. of Copies	Distribution Sheet (Y, N)	Turnkey (Y, N)	Evaluation (Y, N)		

Interval Tested	5292 - 5384	Initial Str Wt./Lbs.	58,000	Unseated Str Wt./Lbs.	64,000
Anchor Length	92'	Wt. Set Lbs.	30,000	Wt. Pulled Loose/Lbs.	70,000
Top Packer Depth	5287	Tool Weight	2,000		
Bottom Packer Depth	5292	Hole Size — 7 7/8"		Rubber Size — 6 3/4"	
Total Depth	5384	Wt. Pipe Run	—	Drill Collar Run	—
Mud Wt.	9.2 LCM2#/bbl Vis. 45 WL 10.4	Drill Pipe Size	4 1/2" XH	Ft. Run	5291'

Blow Description IF: Fair to strong blow off bttm in 4 mins
ISI: Bled off blow - no return.
FF: Strong blow off bttm immediately decreased to
4" blow at final ESI: Bled off blow - no return.

Recovery — Total Feet	30'	GIP	150'	Ft. in DC	—	Ft. in DP	30'
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	30' Feet Of	Drilg. Mud	%gas	%oil	%water	%mud	
Rec.	Feet Of	%gas	%oil	%water	%mud		
Rec.	Feet Of	%gas	%oil	%water	%mud		

BHT 135° °F Gravity °API D@ °F Corrected Gravity °API
RW @ °F Chlorides ppm Recovery Chlorides 2,000 ppm System

(A) Initial Hydrostatic Mud	2622	2593	PSI	Recorder No.	2341	T-Started	1423
(B) First Initial Flow Pressure	52	15	PSI	(depth)	5295	T-Open	1727
(C) First Final Flow Pressure	52	18	PSI	Recorder No.	13339	T-Pulled	2157
(D) Initial Shut-in Pressure	519	542	PSI	(depth)	5379	T-Out	0030
(E) Second Initial Flow Pressure	41	16	PSI	Recorder No.	—		
(F) Second Final Flow Pressure	41	19	PSI	(depth)	—		
(G) Final Shut-in Pressure	969	997	PSI	Initial Opening	30	Test	
(H) Final Hydrostatic Mud	2480	2263	PSI	Initial Shut-in	60	Jars	X

AK-1 ALP

Final Flow 60 Safety Joint X
Final Shut-in 120 Straddle

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

Approved By Wesley Hansen

Circ. Sub X N/C
Sampler X
Extra Packer
Elect. Rec. X
Other

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10310 Date 7-27-97
Company Name Zinke & Trumbo Cont. Val Energy #1
Lease Hoffman #1-2 Test No. 1 Morrow
County Seward KS. Sec. 2 Twp. 31 S Rng. 33 W

SAMPLER RECOVERY

Gas 4.000 ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other _____ ML
Pressure 800[#] PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 2.000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 45
Mud Weight 9.2
Filtrate 10.4
Other LCM 2#/bb1

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 2.0 ohms @ 100° F
Chlorides 2.000 ppm.

TRILOBITE TESTING L.L.C.

OPERATOR : Zinke & Trumbo Ic.

DATE 2-28-97

WELL NAME: Hoffman #1-2

KB 2898.00 ft

TICKET NO: 10311 DST #2

LOCATION : 2-31S-33W Seward KS.

GR 2893.00 ft

FORMATION: Basal Morrow Sand

INTERVAL : 5366.00 To 5425.00 ft

TD 5425.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2341			PF Fr. 1550 to 1620 hr
SI 60 Range(Psi)	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1620 to 1720 hr
SF 60 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 1720 to 1820 hr
FS 120 Depth(ft)	5420.0	5420.0	5370.0	0.0	0.0	FS Fr. 1820 to 2020 hr

	Field	1	2	3	4	
A. Init Hydro	2731.0	2779.0	2687.0	0.0	0.0	T STARTED 1330 hr
B. First Flow	52.0	108.0	14.0	0.0	0.0	T ON BOTM 1547 hr
Bl. Final Flow	52.0	82.0	25.0	0.0	0.0	T OPEN 1550 hr
C. In Shut-in	436.0	463.0	452.0	0.0	0.0	T PULLED 2020 hr
D. Init Flow	62.0	111.0	18.0	0.0	0.0	T OUT 2300 hr
E. Final Flow	62.0	88.0	38.0	0.0	0.0	
F. Fl Shut-in	1251.0	1300.0	1297.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2423.0	2507.0	2469.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 85000.00 lbs
						Initial Str Wt 58000.00 lbs
						Unseated Str Wt 60000.00 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 31.00 ft
						D.P. Length 5320.00 ft

RECOVERY

Tot Fluid 30.00 ft of 30.00 ft in DC and 0.00 ft in DP
 30.00 ft of Drilling Mud
 745.00 ft of Gas In Pipe
 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 2000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak to fair blow off bottom in 3 min

Initial Shut In:

Bled off blow - No return

Final Flow:

Strong blow off bottom immediately decreased to 8"

Final Shut In:

Bled off blow - No return

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	54.00 S/L
W.L.	10.20 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	131.00 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	Rod Steinbrink
Co. Rep.	Wes Hansen
Contr.	Val Energy
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Hoffman #1-2

LOCATION : 2-31S-33W Seward KS.

TICKET No. 10311 D.S.T. No. 2 DATE 2-28-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 28

BOTTOM PACKERS AND ANCHOR

TOTAL TOOL 58

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 89

D.C. ABOVE TOOLS.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands 86 Single 1 Total 5320

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5439

TOTAL DEPTH 5425

TOTAL DRILL PIPE ABOVE K.B. 14

REMARKS:

Sampler Data;

Gas; 3000 ml

Oil;

Water;

Mud; 1000 ml

Total Volume; 4000 ml

Pressure; 100 # psi

RW 2.7 @ 80 Deg = 2000 Chlorides

P.O. SUB 1' Above 120' DP 5216
C.O. SUB 1' 5336

S.I. TOOL 5' 5342

3' Sampler 5345

HMV 5' 5350

JARS 5' 5355

SAFETY JOINT 2' 5357

PACKER 4' 5361

PACKER 5' 5366

DEPTH
STUBB 1' 5367

ANCHOR

Alp. Rec. @ 5370

20' Perf. 5387

1' CO Sub 5388

31' DP 5419

1' CO Sub 5420

T.C.
DEPTH

AK-1 Rec. @ 5420

BULLNOSE 5'

T.D. 5425

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10311 DST #2 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/28/97

TIME: 13:30:17

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	137.00	2687.4	0.0	117.76		
***** Start Flow 1	0.00	13.7	0.0	117.66		
	1.00	13.9	0.1	118.03		
	2.00	18.0	4.3	118.49		
	3.00	19.1	5.4	118.93		
	4.00	20.2	6.5	119.33		
	5.00	18.4	4.7	119.65		
	6.00	18.9	5.1	119.94		
	7.00	21.5	7.8	120.15		
	8.00	19.6	5.8	120.35		
	9.00	21.5	7.8	120.44		
	10.00	24.2	10.5	120.63		
	11.00	20.7	6.9	120.77		
	12.00	22.8	9.1	120.89		
	13.00	24.5	10.8	121.00		
	14.00	25.3	11.6	121.08		
	15.00	25.4	11.6	121.17		
	16.00	25.2	11.5	121.25		
	17.00	24.7	11.0	121.34		
	18.00	26.4	12.7	121.42		
	19.00	25.2	11.5	121.51		
	20.00	23.0	9.2	121.59		
	21.00	24.6	10.9	121.65		
	22.00	24.5	10.8	121.73		
	23.00	25.8	12.1	121.81		
	24.00	25.1	11.3	121.89		
	25.00	23.9	10.2	121.96		
	26.00	25.0	11.3	122.04		
	27.00	23.9	10.1	122.11		
	28.00	26.1	12.4	122.18		
	29.00	25.8	12.1	122.24		
	30.00	24.8	11.1	122.31		
	31.00	25.0	11.2	122.37		
***** End Flow 1	32.00	25.2	11.5	122.44		
***** Start Shutin 1	0.00	25.2	0.0	122.44	0.0000	0.001
	1.00	32.2	7.0	122.52	33.0000	0.001
	2.00	41.3	16.1	122.57	17.0000	0.002
	3.00	49.7	24.5	122.64	11.6667	0.002
	4.00	57.8	32.6	122.70	9.0000	0.003
	5.00	65.7	40.5	122.77	7.4000	0.004
	6.00	73.4	48.2	122.83	6.3333	0.005
	7.00	81.1	55.9	122.89	5.5714	0.007
	8.00	88.5	63.3	122.95	5.0000	0.008
	9.00	95.9	70.7	123.01	4.5556	0.009
	10.00	103.0	77.8	123.07	4.2000	0.011
	11.00	110.0	84.8	123.12	3.9091	0.012
	12.00	116.9	91.7	123.18	3.6667	0.014
	13.00	123.7	98.5	123.24	3.4615	0.015
	14.00	130.6	105.4	123.30	3.2857	0.017
	15.00	137.2	112.0	123.34	3.1333	0.019
	16.00	144.0	118.8	123.40	3.0000	0.021

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10311 DST #2 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/28/97

TIME: 13:30:17

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dt)/dT	P^2/10^6
	17.00	150.6	125.4	123.44	2.8824	0.023
	18.00	156.9	131.8	123.50	2.7778	0.025
	19.00	163.5	138.3	123.54	2.6842	0.027
	20.00	170.1	144.9	123.59	2.6000	0.029
	21.00	176.6	151.4	123.64	2.5238	0.031
	22.00	183.0	157.9	123.68	2.4545	0.034
	23.00	189.5	164.3	123.72	2.3913	0.036
	24.00	196.1	170.9	123.76	2.3333	0.038
	25.00	202.6	177.4	123.81	2.2800	0.041
	26.00	209.2	184.0	123.85	2.2308	0.044
	27.00	215.6	190.4	123.89	2.1852	0.046
	28.00	222.1	197.0	123.93	2.1429	0.049
	29.00	228.7	203.6	123.97	2.1034	0.052
	30.00	235.3	210.1	124.01	2.0667	0.055
	31.00	241.8	216.7	124.04	2.0323	0.058
	32.00	248.4	223.3	124.07	2.0000	0.062
	33.00	255.2	230.0	124.11	1.9697	0.065
	34.00	261.9	236.7	124.15	1.9412	0.069
	35.00	268.5	243.3	124.18	1.9143	0.072
	36.00	275.2	250.0	124.22	1.8889	0.076
	37.00	282.0	256.8	124.25	1.8649	0.080
	38.00	288.9	263.7	124.29	1.8421	0.083
	39.00	295.6	270.5	124.33	1.8205	0.087
	40.00	302.5	277.3	124.36	1.8000	0.091
	41.00	309.4	284.3	124.40	1.7805	0.096
	42.00	316.4	291.2	124.42	1.7619	0.100
	43.00	323.4	298.2	124.47	1.7442	0.105
	44.00	330.6	305.4	124.49	1.7273	0.109
	45.00	337.7	312.5	124.53	1.7111	0.114
	46.00	344.8	319.6	124.56	1.6957	0.119
	47.00	352.0	326.8	124.60	1.6809	0.124
	48.00	359.3	334.1	124.62	1.6667	0.129
	49.00	366.7	341.5	124.65	1.6531	0.134
	50.00	374.1	349.0	124.68	1.6400	0.140
	51.00	381.4	356.3	124.71	1.6275	0.145
	52.00	389.1	363.9	124.75	1.6154	0.151
	53.00	396.6	371.4	124.77	1.6038	0.157
	54.00	404.4	379.2	124.81	1.5926	0.164
	55.00	412.1	386.9	124.83	1.5818	0.170
	56.00	419.8	394.7	124.87	1.5714	0.176
	57.00	427.7	402.6	124.91	1.5614	0.183
	58.00	435.6	410.5	124.97	1.5517	0.190
	59.00	443.6	418.4	124.95	1.5424	0.197
***** End Shut-in 1	60.00	451.8	426.6	125.02	1.5333	0.204
***** Start Flow 2	0.00	18.1	0.0	125.00		
	1.00	23.0	4.8	125.01		
	2.00	21.5	3.4	125.01		
	3.00	23.9	5.8	125.01		
	4.00	22.4	4.3	125.01		
	5.00	22.9	4.7	125.02		
	6.00	22.2	4.1	125.02		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10311 DST #2 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/28/97

TIME: 13:30:17

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
7.00	22.8	4.7	125.05		
8.00	23.2	5.1	125.07		
9.00	23.9	5.8	125.09		
10.00	24.7	6.6	125.12		
11.00	25.3	7.2	125.14		
12.00	25.3	7.1	125.17		
13.00	26.5	8.4	125.20		
14.00	25.7	7.6	125.24		
15.00	22.7	4.6	125.27		
16.00	23.4	5.3	125.30		
17.00	23.5	5.3	125.34		
18.00	28.3	10.2	125.37		
19.00	32.3	14.2	125.41		
20.00	33.1	15.0	125.44		
21.00	34.6	16.5	125.49		
22.00	35.6	17.5	125.52		
23.00	36.1	18.0	125.56		
24.00	35.4	17.3	125.59		
25.00	35.3	17.2	125.64		
26.00	37.5	19.4	125.67		
27.00	38.2	20.0	125.71		
28.00	37.5	19.4	125.74		
29.00	36.9	18.7	125.78		
30.00	36.7	18.5	125.82		
31.00	38.0	19.8	125.86		
32.00	38.7	20.6	125.89		
33.00	38.4	20.2	125.93		
34.00	38.4	20.3	125.96		
35.00	38.4	20.3	125.99		
36.00	37.6	19.5	126.03		
37.00	37.1	19.0	126.07		
38.00	37.4	19.3	126.10		
39.00	38.6	20.5	126.14		
40.00	38.7	20.6	126.17		
41.00	39.1	21.0	126.20		
42.00	40.4	22.2	126.24		
43.00	40.9	22.8	126.27		
44.00	41.4	23.3	126.30		
45.00	41.5	23.4	126.33		
46.00	43.0	24.8	126.38		
47.00	43.9	25.8	126.41		
48.00	44.1	25.9	126.44		
49.00	43.7	25.6	126.47		
50.00	43.8	25.7	126.49		
51.00	44.0	25.9	126.53		
52.00	44.4	26.3	126.57		
53.00	44.9	26.8	126.60		
54.00	46.0	27.9	126.63		
55.00	48.7	30.6	126.65		
56.00	25.8	7.7	126.68		
57.00	24.9	6.8	126.72		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10311 DST #2 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/28/97

TIME: 13:30:17

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	58.00	25.9	7.7	126.75		
***** End Flow 2	59.00	37.9	19.7	126.77		
***** Start Shutin 2	0.00	37.9	0.0	126.77	0.0000	0.001
	1.00	56.4	18.6	126.80	92.0000	0.003
	2.00	74.2	36.4	126.83	46.5000	0.006
	3.00	91.5	53.6	126.85	31.3333	0.008
	4.00	108.6	70.7	126.90	23.7500	0.012
	5.00	125.3	87.4	126.93	19.2000	0.016
	6.00	141.9	104.1	126.95	16.1667	0.020
	7.00	158.6	120.7	127.01	14.0000	0.025
	8.00	175.1	137.2	127.07	12.3750	0.031
	9.00	191.4	153.5	127.09	11.1111	0.037
	10.00	207.7	169.8	127.09	10.1000	0.043
	11.00	223.9	186.0	127.16	9.2727	0.050
	12.00	239.7	201.8	127.20	8.5833	0.057
	13.00	255.4	217.6	127.22	8.0000	0.065
	14.00	271.0	233.2	127.24	7.5000	0.073
	15.00	286.5	248.7	127.28	7.0667	0.082
	16.00	302.0	264.1	127.31	6.6875	0.091
	17.00	317.4	279.5	127.34	6.3529	0.101
	18.00	332.6	294.7	127.36	6.0556	0.111
	19.00	347.7	309.8	127.39	5.7895	0.121
	20.00	362.7	324.8	127.42	5.5500	0.132
	21.00	377.5	339.7	127.44	5.3333	0.143
	22.00	392.4	354.5	127.48	5.1364	0.154
	23.00	407.0	369.1	127.50	4.9565	0.166
	24.00	421.6	383.8	127.53	4.7917	0.178
	25.00	436.2	398.3	127.56	4.6400	0.190
	26.00	450.6	412.7	127.60	4.5000	0.203
	27.00	465.0	427.1	127.63	4.3704	0.216
	28.00	479.2	441.4	127.66	4.2500	0.230
	29.00	493.3	455.5	127.68	4.1379	0.243
	30.00	507.4	469.5	127.69	4.0333	0.257
	31.00	521.4	483.6	127.69	3.9355	0.272
	32.00	535.1	497.3	127.72	3.8438	0.286
	33.00	548.8	510.9	127.74	3.7576	0.301
	34.00	562.4	524.5	127.76	3.6765	0.316
	35.00	575.8	538.0	127.81	3.6000	0.332
	36.00	589.2	551.4	127.83	3.5278	0.347
	37.00	602.6	564.7	127.87	3.4595	0.363
	38.00	615.7	577.8	127.90	3.3947	0.379
	39.00	628.6	590.7	127.93	3.3333	0.395
	40.00	641.6	603.7	127.96	3.2750	0.412
	41.00	654.3	616.5	127.98	3.2195	0.428
	42.00	667.1	629.2	128.01	3.1667	0.445
	43.00	679.6	641.8	128.05	3.1163	0.462
	44.00	692.0	654.2	128.08	3.0682	0.479
	45.00	704.4	666.6	128.14	3.0222	0.496
	46.00	716.7	678.8	128.18	2.9783	0.514
	47.00	728.7	690.9	128.20	2.9362	0.531
	48.00	740.6	702.8	128.23	2.8958	0.549

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10311 DST #2 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/28/97

TIME: 13:30:17

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
49.00	752.5	714.7	128.26	2.8571	0.566
50.00	764.3	726.4	128.30	2.8200	0.584
51.00	776.0	738.1	128.33	2.7843	0.602
52.00	787.4	749.5	128.36	2.7500	0.620
53.00	798.8	760.9	128.41	2.7170	0.638
54.00	809.9	772.1	128.44	2.6852	0.656
55.00	821.1	783.3	128.48	2.6545	0.674
56.00	832.1	794.2	128.54	2.6250	0.692
57.00	842.9	805.0	128.57	2.5965	0.710
58.00	853.6	815.7	128.63	2.5690	0.729
59.00	864.2	826.4	128.69	2.5424	0.747
60.00	874.8	836.9	128.69	2.5167	0.765
61.00	885.1	847.2	128.73	2.4918	0.783
62.00	895.3	857.5	128.73	2.4677	0.802
63.00	905.6	867.8	128.82	2.4444	0.820
64.00	915.6	877.7	128.91	2.4219	0.838
65.00	925.5	887.7	128.95	2.4000	0.857
66.00	935.3	897.4	129.00	2.3788	0.875
67.00	944.9	907.0	129.03	2.3582	0.893
68.00	954.4	916.5	129.07	2.3382	0.911
69.00	963.9	926.1	129.12	2.3188	0.929
70.00	973.2	935.3	129.18	2.3000	0.947
71.00	982.2	944.3	129.22	2.2817	0.965
72.00	991.2	953.3	129.26	2.2639	0.982
73.00	1000.2	962.3	129.32	2.2466	1.000
74.00	1009.0	971.1	129.36	2.2297	1.018
75.00	1017.6	979.8	129.41	2.2133	1.036
76.00	1026.1	988.3	129.46	2.1974	1.053
77.00	1034.6	996.7	129.50	2.1818	1.070
78.00	1042.8	1005.0	129.54	2.1667	1.087
79.00	1051.0	1013.1	129.59	2.1519	1.105
80.00	1059.0	1021.2	129.64	2.1375	1.122
81.00	1066.9	1029.1	129.68	2.1235	1.138
82.00	1074.7	1036.9	129.73	2.1098	1.155
83.00	1082.5	1044.6	129.78	2.0964	1.172
84.00	1089.9	1052.0	129.83	2.0833	1.188
85.00	1097.4	1059.5	129.86	2.0706	1.204
86.00	1104.6	1066.8	129.93	2.0581	1.220
87.00	1111.9	1074.1	129.97	2.0460	1.236
88.00	1119.0	1081.2	130.00	2.0341	1.252
89.00	1126.0	1088.2	130.03	2.0225	1.268
90.00	1132.9	1095.0	130.09	2.0111	1.283
91.00	1139.7	1101.8	130.13	2.0000	1.299
92.00	1146.4	1108.5	130.17	1.9891	1.314
93.00	1152.9	1115.1	130.22	1.9785	1.329
94.00	1159.4	1121.5	130.26	1.9681	1.344
95.00	1165.8	1127.9	130.31	1.9579	1.359
96.00	1172.0	1134.1	130.34	1.9479	1.374
97.00	1178.1	1140.2	130.38	1.9381	1.388
98.00	1184.1	1146.3	130.43	1.9286	1.402
99.00	1190.1	1152.2	130.46	1.9192	1.416

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 10311 DST #2 Hoffman #1-2 Zinke & Trumbo Inc.

DATE: 07/28/97

TIME: 13:30:17

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dt)/dt	P^2/10^6
	100.00	1195.9	1158.0	130.52	1.9100	1.430
	101.00	1201.7	1163.8	130.55	1.9010	1.444
	102.00	1207.4	1169.5	130.60	1.8922	1.458
	103.00	1212.9	1175.0	130.62	1.8835	1.471
	104.00	1218.4	1180.6	130.66	1.8750	1.485
	105.00	1223.7	1185.8	130.69	1.8667	1.497
	106.00	1229.0	1191.2	130.73	1.8585	1.511
	107.00	1234.2	1196.3	130.75	1.8505	1.523
	108.00	1239.3	1201.4	130.79	1.8426	1.536
	109.00	1244.2	1206.3	130.82	1.8349	1.548
	110.00	1249.1	1211.2	130.87	1.8273	1.560
	111.00	1253.9	1216.0	130.89	1.8198	1.572
	112.00	1258.6	1220.7	130.90	1.8125	1.584
	113.00	1263.2	1225.4	130.95	1.8053	1.596
	114.00	1267.7	1229.8	130.98	1.7982	1.607
	115.00	1272.2	1234.3	130.99	1.7913	1.618
	116.00	1276.6	1238.8	131.05	1.7845	1.630
	117.00	1280.9	1243.0	131.06	1.7778	1.641
	118.00	1285.1	1247.3	131.07	1.7712	1.652
	119.00	1289.3	1251.4	131.12	1.7647	1.662
	120.00	1293.3	1255.5	131.15	1.7583	1.673
***** End Shut-in 2	121.00	1297.4	1259.6	131.17	1.7521	1.683
***** Final Hydro.	413.00	2469.4	0.0	131.40		

TEST HISTORY

10311 DST #2 Hoffman #1-2 Zinke & Trumbo Inc.

Flag Points

t (Min.) P (PSig)

A: 0.00 2687.43
 B: 0.00 13.71
 C: 32.00 25.18
 D: 60.00 451.82
 E: 0.00 18.13
 F: 59.00 37.87
 G: 121.00 1297.42
 Q: 0.00 2469.42

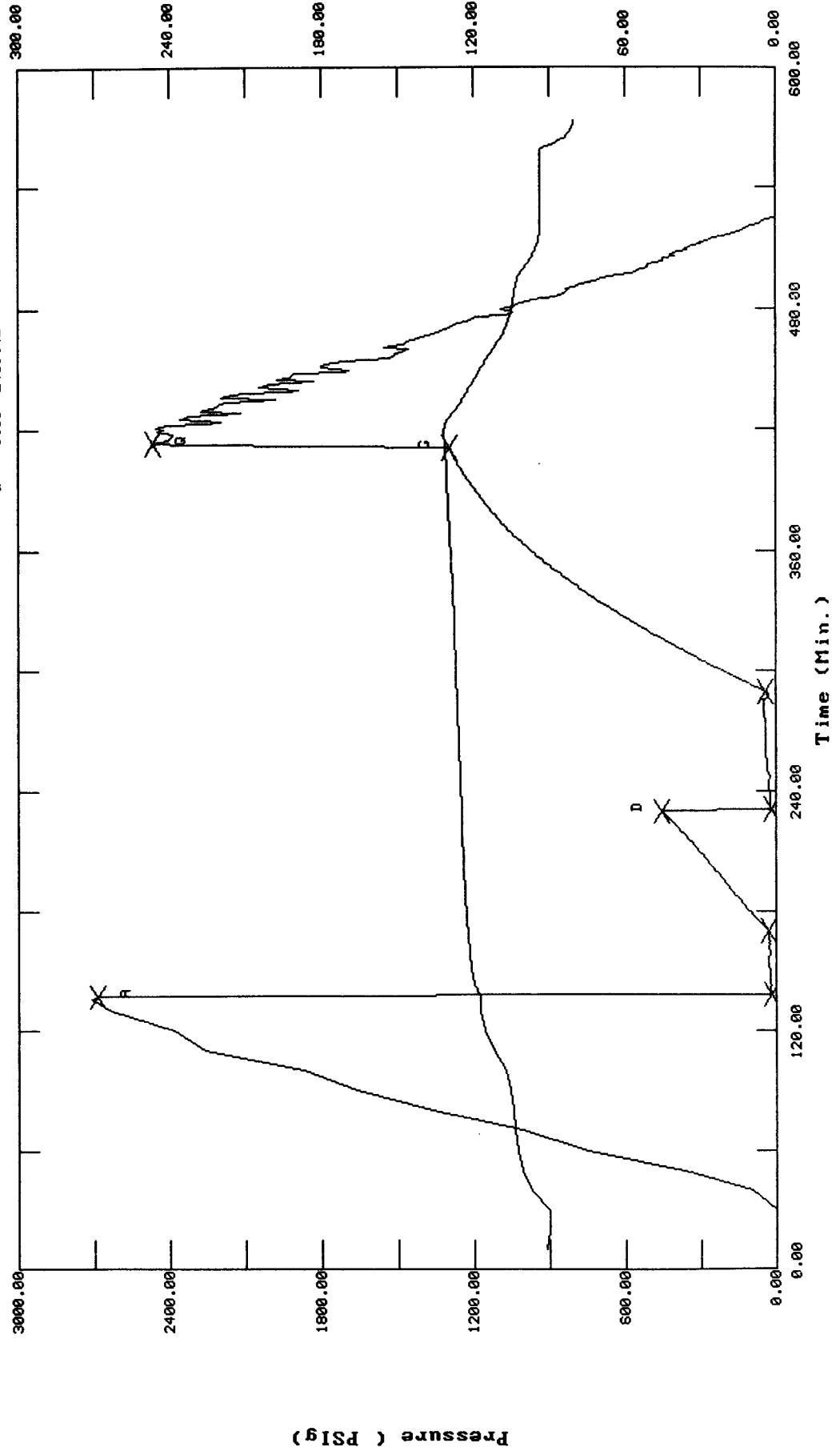
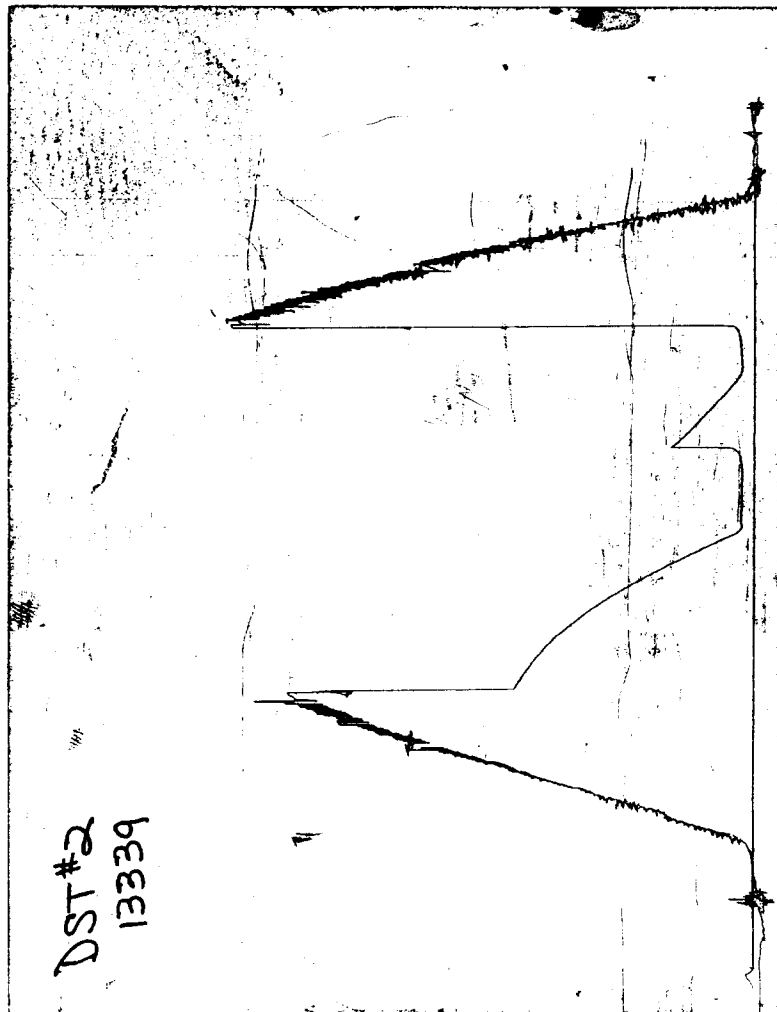


CHART PAGE



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 10311

Well Name & No.	<u>Hoffman #1-2</u>	Test No.	<u>2</u>	Date	<u>7-28-97</u>
Company	<u>Zinke & Trumbo Inc.</u>	Zone Tested	<u>Basal Morrow Sd</u>		
Address	<u>1202 East 33rd Ste 100 Tulsa, OK 74105</u>		Elevation	<u>2898</u>	KB <u>2893</u> GL
Co. Rep / Geo.	<u>Wes Hansen</u>	Cont.	<u>Val Energy #1</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>2</u>	Twp.	<u>31^S</u>	Rge.	<u>33^W</u> Co. <u>Seward</u> State <u>KS</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u>Y</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5366 - 5425</u>	Initial Str Wt./Lbs.	<u>58,000</u>	Unseated Str Wt./Lbs.	<u>60,000</u>
Anchor Length	<u>59'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>85,000</u>
Top Packer Depth	<u>5361</u>	Tool Weight	<u>1800</u>		
Bottom Packer Depth	<u>5366</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Total Depth	<u>5425</u>	Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>30'</u>
Mud Wt. <u>9.1</u> LCM <u>4</u> #/bbl Vis. <u>54</u> WL <u>10.2</u>	Drill Pipe Size		<u>4 1/2" XH</u>	Ft. Run	<u>5320'</u>

Blow Description IF: Weak to fair blow off btm in 3 mins.
ISI: Bled off blow - No return
FF: Strong blow off btm immediately decreased to 8"
FSI: Bled off blow - No return.

Recovery — Total Feet 30' GIP 745' Ft. in DC 30' Ft. in DP

Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u>30'</u>	Feet Of	<u>Drilg Mud</u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud

BHT 131° °F Gravity °API D@ °F Corrected Gravity °API

RW 2.7 80° °F Chlorides 2,000 ppm Recovery Chlorides 1,800 ppm System

(A) Initial Hydrostatic Mud	<u>2731</u>	<u>2687</u>	PSI	Recorder No.	<u>2341</u>	T-Started	<u>1330</u>
(B) First Initial Flow Pressure	<u>52</u>	<u>13</u>	PSI	(depth)	<u>5370</u>	T-Open	<u>1550</u>
(C) First Final Flow Pressure	<u>52</u>	<u>25</u>	PSI	Recorder No.	<u>13339</u>	T-Pulled	<u>2020</u>
(D) Initial Shut-in Pressure	<u>436</u>	<u>451</u>	PSI	(depth)	<u>5420</u>	T-Out	<u>2300</u>
(E) Second Initial Flow Pressure	<u>62</u>	<u>18</u>	PSI	Recorder No.	<u> </u>		
(F) Second Final Flow Pressure	<u>62</u>	<u>37</u>	PSI	(depth)	<u> </u>		
(G) Final Shut-in Pressure	<u>1251</u>	<u>12917</u>	PSI	Initial Opening	<u>30</u>	Test	<u> </u>
(H) Final Hydrostatic Mud	<u>2423</u>	<u>2469</u>	PSI	Initial Shut-in	<u>60</u>	Jars	<u>X</u>

AK-1

ALP.

Final Flow 60 Safety Joint X

Final Shut-in 120 Straddle

Circ. Sub X N/C

Sampler X

Extra Packer

Elect. Rec. X

Other

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

Approved By Wesley Hansen

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 10311 Date 7-28-97
Company Name Zinke & Trumbo Cont. Val Energy #1
Lease Hoffman #1-2 Test No. 2 Basal Morrow Sd
County Seward KS Sec. 2 Twp. 31^S Rng. 33^W

SAMPLER RECOVERY

Gas 3,000 ML
Oil _____ ML
Mud 1,000 ML
Water _____ ML
Other _____ ML
Pressure 100[#] psi PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 1,800 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 54
Mud Weight 9.1
Filtrate 10.2
Other LCM 4[#]/bbl.

SAMPLER ANALYSIS

Resistivity 2.7 ohms @ 80° F
Chlorides 2,000 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 2.7 ohms @ 80° F
Chlorides 2,000 ppm.