

WELL NAME: P.W. Smith # 1-15
COMPANY: Zinke & Trumbo Inc.
LOCATION: Sec. 15 Twp. 30S Rge. 37W
Grant County Kansas
DATE: 1/23/97

TRILOBITE TESTING L.L.C.

OPERATOR : Zinke & Trumbo Inc.

DATE 1/20/97

WELL NAME: P.W. Smith #1-15

KB 3098.00 ft

TICKET NO: 8580

DST #1

LOCATION : 15-30s-37w

GR 3090.00 ft

FORMATION: Morrow

INTERVAL : 5638.00 To 5790.00 ft

TD 5790.00 ft

TEST TYPE: CONV.

RECORDED DATA

mins	Field	1	2	3	4	TIME DATA-----
30	Rec.	11038	11038	2351		PF Fr. 0910 to 0940 hr
60	Range(Psi)	5075.0	5075.0	4995.0	0.0	IS Fr. 0940 to 1040 hr
60	Clock(hrs)	12 hr	12 hr	Elec.		SF Fr. 1040 to 1140 hr
120	Depth(ft)	5787.0	5787.0	5646.0	0.0	FS Fr. 1140 to 1340 hr

	Field	1	2	3	4	
Init Hydro	2760.0	2771.0	2784.0	0.0	0.0	T STARTED 0535 hr
First Flow	68.0	90.0	40.0	0.0	0.0	T ON BOTM 0908 hr
Final Flow	68.0	90.0	55.0	0.0	0.0	T OPEN 0910 hr
In Shut-in	95.0	109.0	86.0	0.0	0.0	T PULLED 1340 hr
Init Flow	82.0	85.0	44.0	0.0	0.0	T OUT 1910 hr
Final Flow	82.0	85.0	53.0	0.0	0.0	
Fl Shut-in	95.0	105.0	72.0	0.0	0.0	

	Field	1	2	3	4	
Final Hydro	2696.0	2741.0	2723.0	0.0	0.0	TOOL DATA-----
Inside/Outside	0	0	I			Tool Wt. 2300.00 lbs

RECOVERY

20.00 ft of 20.00 ft in DC and 0.00 ft in DP
 0.00 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

Wt Set On Packer 25000.00 lbs
 Wt Pulled Loose 140000.00 lbs
 Initial Str Wt 82000.00 lbs
 Unseated Str Wt 85000.00 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 422.00 ft
 D.P. Length 5218.00 ft

GRAVITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

BLOW DESCRIPTION

Initial Flow:
 Weak blow, died in 20 mins

Mud Type Chemical
 Weight 9.30 lb/c
 Vis. 56.00 S/L
 W.L. 7.30 in3
 F.C. 0.00 in
 Mud Drop N

Initial Shut In:

Amt. of fill 0.00 ft
 Btm. H. Temp. 126.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00

Final Flow:
 No Blow

Final Shut In:

Cushion Type
 Reversed Out N
 Tool Chased N
 Tester TOM HORACEK
 Co. Rep. KEN LeBLANC
 Contr. Val Drlg.
 Rig # 2
 Unit #
 Pump T.

SAMPLES: No

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: P.W. Smith #1-15

LOCATION : 15-30s-37w

TICKET No. 8580 D.S.T. No. 1 DATE 1/20/97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30 ft.

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 26 ft.

TOTAL TOOL 56 ft.

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands2 Single Total 126 ft.

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 182 ft.

D.C. ABOVE TOOLS.Stands7 Single Total 422 ft.

D.P. ABOVE TOOLS.Stands84 Single Total 5218 ft.

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5822 ft.

TOTAL DEPTH 5790 ft.

TOTAL DRILL PIPE ABOVE K.B. 32 ft.

REMARKS:
SAMPLER

4000 ml mud
50 PSI

H	P.O. SUB	
H	C.O. SUB	5608
H	S.I. TOOL	5614
H	Sampler	5617
H	HMV Hyd. Tool	5622
H	JARS	5627
H	SAFETY JOINT	5629
H	PACKER	5633
H	PACKER	5638
H	DEPTH 5638	
H	STUBB 1 ft.	5639
H	ANCHOR Perf 1 ft.	5640
H	Perf 5 ft.	5645
H	Alpine Rec. @	5646
H	Perf 5 ft.	5650
H	T.C.	
H	DEPTH	
H	Perf 7 ft.	5657
H	C.O. 1 ft.	5658
H	D.C. 126 ft.	5784
H	C.O, 1 ft.	5785
H	AK-1 Rec. @	5787
H	BULLNOSE Bull Plug 5 ft.	5790
H	T.D.	5790

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8580 DST #1 P.W. Smith #1-15 Zinke & Trumbo Inc.

DATE: 01/20/97

TIME: 05:28:57

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	221.50	2784.0	0.0	113.30		
***** Start Flow 1	0.00	40.7	0.0	113.37		
	0.50	41.3	0.6	113.36		
	1.00	41.5	0.8	113.34		
	1.50	40.9	0.3	113.33		
	2.00	42.8	2.1	113.33		
	2.50	47.5	6.8	113.34		
	3.00	50.9	10.2	113.35		
	3.50	43.5	2.9	113.36		
	4.00	44.0	3.3	113.38		
	4.50	46.7	6.0	113.40		
	5.00	49.2	8.5	113.42		
	5.50	51.5	10.8	113.45		
	6.00	53.7	13.0	113.48		
	6.50	48.9	8.2	113.51		
	7.00	51.3	10.6	113.54		
	7.50	46.3	5.6	113.57		
	8.00	47.7	7.0	113.60		
	8.50	49.8	9.1	113.63		
	9.00	51.4	10.7	113.67		
	9.50	52.7	12.0	113.70		
	10.00	53.9	13.2	113.73		
	10.50	55.0	14.4	113.76		
	11.00	56.3	15.6	113.80		
	11.50	57.5	16.8	113.83		
	12.00	45.6	5.0	113.87		
	12.50	43.6	2.9	113.90		
	13.00	45.4	4.7	113.94		
	13.50	46.2	5.5	113.97		
	14.00	47.3	6.6	114.01		
	14.50	48.0	7.3	114.04		
	15.00	48.8	8.1	114.07		
	15.50	49.6	8.9	114.11		
	16.00	50.3	9.7	114.14		
	16.50	51.1	10.4	114.17		
	17.00	51.9	11.2	114.21		
	17.50	52.5	11.8	114.24		
	18.00	53.3	12.6	114.28		
	18.50	54.0	13.3	114.31		
	19.00	54.6	13.9	114.35		
	19.50	55.3	14.6	114.38		
	20.00	56.0	15.3	114.42		
	20.50	56.6	15.9	114.45		
	21.00	57.2	16.5	114.48		
	21.50	57.8	17.1	114.51		
	22.00	58.4	17.7	114.55		
	22.50	59.0	18.3	114.58		
	23.00	59.7	19.0	114.62		
	23.50	60.2	19.5	114.65		
	24.00	60.8	20.1	114.68		
	24.50	61.3	20.6	114.71		

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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	61.8	21.1	114.75		
	25.50	62.4	21.7	114.78		
	26.00	62.9	22.2	114.82		
	26.50	52.9	12.2	114.84		
	27.00	54.0	13.3	114.88		
	27.50	55.1	14.4	114.92		
	28.00	55.6	14.9	114.94		
	28.50	56.1	15.4	114.98		
	29.00	56.5	15.8	115.01		
	29.50	56.9	16.2	115.04		
	30.00	57.5	16.8	115.08		
	30.50	57.9	17.2	115.11		
	31.00	53.7	13.0	115.14		
	31.50	54.7	14.0	115.18		
***** End Flow 1	32.00	55.1	14.4	115.20		
***** Start Shutin 1	0.00	55.1	0.0	115.20	0.0000	0.003
	0.50	55.6	0.5	115.24	65.0000	0.003
	1.00	56.1	1.0	115.27	33.0000	0.003
	1.50	56.7	1.6	115.30	22.3333	0.003
	2.00	57.1	1.9	115.33	17.0000	0.003
	2.50	57.3	2.2	115.36	13.8000	0.003
	3.00	57.7	2.6	115.39	11.6667	0.003
	3.50	58.1	2.9	115.42	10.1429	0.003
	4.00	58.3	3.2	115.46	9.0000	0.003
	4.50	58.7	3.5	115.49	8.1111	0.003
	5.00	59.2	4.0	115.52	7.4000	0.003
	5.50	59.6	4.4	115.55	6.8182	0.004
	6.00	59.9	4.8	115.58	6.3333	0.004
	6.50	60.3	5.1	115.61	5.9231	0.004
	7.00	60.6	5.5	115.64	5.5714	0.004
	7.50	61.0	5.9	115.67	5.2667	0.004
	8.00	61.3	6.2	115.70	5.0000	0.004
	8.50	61.7	6.5	115.73	4.7647	0.004
	9.00	62.0	6.9	115.77	4.5556	0.004
	9.50	62.3	7.2	115.79	4.3684	0.004
	10.00	62.8	7.6	115.82	4.2000	0.004
	10.50	62.9	7.8	115.86	4.0476	0.004
	11.00	63.4	8.2	115.88	3.9091	0.004
	11.50	63.6	8.5	115.91	3.7826	0.004
	12.00	64.0	8.9	115.94	3.6667	0.004
	12.50	64.4	9.2	115.97	3.5600	0.004
	13.00	64.6	9.5	115.99	3.4615	0.004
	13.50	65.0	9.8	116.03	3.3704	0.004
	14.00	65.2	10.1	116.06	3.2857	0.004
	14.50	65.5	10.4	116.09	3.2069	0.004
	15.00	65.9	10.7	116.12	3.1333	0.004
	15.50	66.2	11.1	116.15	3.0645	0.004
	16.00	66.5	11.3	116.17	3.0000	0.004
	16.50	66.8	11.7	116.20	2.9394	0.004
	17.00	67.0	11.9	116.23	2.8824	0.004
	17.50	67.3	12.2	116.26	2.8286	0.005

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18.00	67.6	12.5	116.29	2.7778	0.005
18.50	68.0	12.8	116.32	2.7297	0.005
19.00	68.1	13.0	116.35	2.6842	0.005
19.50	68.5	13.3	116.37	2.6410	0.005
20.00	68.8	13.7	116.40	2.6000	0.005
20.50	69.1	13.9	116.42	2.5610	0.005
21.00	69.3	14.2	116.46	2.5238	0.005
21.50	69.6	14.4	116.48	2.4884	0.005
22.00	69.9	14.8	116.51	2.4545	0.005
22.50	70.2	15.1	116.54	2.4222	0.005
23.00	70.5	15.4	116.56	2.3913	0.005
23.50	70.7	15.6	116.59	2.3617	0.005
24.00	71.0	15.9	116.62	2.3333	0.005
24.50	71.3	16.2	116.65	2.3061	0.005
25.00	71.5	16.4	116.67	2.2800	0.005
25.50	71.8	16.7	116.70	2.2549	0.005
26.00	72.0	16.9	116.73	2.2308	0.005
26.50	72.4	17.3	116.75	2.2075	0.005
27.00	72.6	17.5	116.78	2.1852	0.005
27.50	72.8	17.7	116.80	2.1636	0.005
28.00	73.2	18.0	116.84	2.1429	0.005
28.50	73.4	18.3	116.86	2.1228	0.005
29.00	73.6	18.5	116.89	2.1034	0.005
29.50	74.0	18.9	116.91	2.0847	0.005
30.00	74.3	19.1	116.93	2.0667	0.006
30.50	74.6	19.5	116.96	2.0492	0.006
31.00	74.8	19.6	116.99	2.0323	0.006
31.50	75.0	19.9	117.01	2.0159	0.006
32.00	75.3	20.1	117.03	2.0000	0.006
32.50	75.6	20.5	117.06	1.9846	0.006
33.00	75.8	20.6	117.09	1.9697	0.006
33.50	76.0	20.9	117.11	1.9552	0.006
34.00	76.3	21.1	117.14	1.9412	0.006
34.50	76.3	21.1	117.16	1.9275	0.006
35.00	76.5	21.4	117.19	1.9143	0.006
35.50	76.9	21.7	117.21	1.9014	0.006
36.00	77.2	22.1	117.24	1.8889	0.006
36.50	77.6	22.5	117.26	1.8767	0.006
37.00	78.0	22.8	117.29	1.8649	0.006
37.50	78.2	23.1	117.32	1.8533	0.006
38.00	78.5	23.3	117.34	1.8421	0.006
38.50	78.8	23.7	117.36	1.8312	0.006
39.00	78.9	23.8	117.39	1.8205	0.006
39.50	79.1	24.0	117.41	1.8101	0.006
40.00	79.4	24.3	117.44	1.8000	0.006
40.50	79.6	24.4	117.45	1.7901	0.006
41.00	79.9	24.8	117.48	1.7805	0.006
41.50	79.8	24.7	117.50	1.7711	0.006
42.00	80.1	24.9	117.52	1.7619	0.006
42.50	80.3	25.2	117.55	1.7529	0.006
43.00	80.6	25.5	117.57	1.7442	0.007

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	43.50	80.9	25.8	117.60	1.7356	0.007
	44.00	81.1	26.0	117.62	1.7273	0.007
	44.50	81.4	26.3	117.64	1.7191	0.007
	45.00	81.7	26.5	117.67	1.7111	0.007
	45.50	81.9	26.8	117.70	1.7033	0.007
	46.00	82.2	27.0	117.72	1.6957	0.007
	46.50	82.5	27.4	117.74	1.6882	0.007
	47.00	82.7	27.6	117.76	1.6809	0.007
	47.50	83.0	27.9	117.78	1.6737	0.007
	48.00	83.2	28.0	117.81	1.6667	0.007
	48.50	83.4	28.3	117.83	1.6598	0.007
	49.00	83.6	28.5	117.86	1.6531	0.007
	49.50	83.7	28.5	117.88	1.6465	0.007
	50.00	83.9	28.8	117.89	1.6400	0.007
	50.50	84.2	29.0	117.92	1.6337	0.007
	51.00	84.3	29.2	117.95	1.6275	0.007
	51.50	84.3	29.2	117.96	1.6214	0.007
	52.00	84.5	29.4	117.99	1.6154	0.007
	52.50	84.8	29.6	118.01	1.6095	0.007
	53.00	84.9	29.8	118.03	1.6038	0.007
	53.50	85.1	30.0	118.05	1.5981	0.007
	54.00	85.3	30.1	118.07	1.5926	0.007
	54.50	85.3	30.2	118.09	1.5872	0.007
	55.00	85.6	30.5	118.12	1.5818	0.007
	55.50	85.9	30.8	118.14	1.5766	0.007
	56.00	86.1	31.0	118.16	1.5714	0.007
	56.50	86.4	31.2	118.19	1.5664	0.007
	57.00	86.4	31.3	118.20	1.5614	0.007
	57.50	86.8	31.6	118.23	1.5565	0.008
***** End Shut-in 1	58.00	86.9	31.8	118.25	1.5517	0.008
***** Start Flow 2	0.00	44.7	0.0	118.31		
	0.50	44.6	-0.1	118.33		
	1.00	45.0	0.3	118.35		
	1.50	45.3	0.6	118.38		
	2.00	45.8	1.1	118.40		
	2.50	46.1	1.3	118.42		
	3.00	46.1	1.3	118.43		
	3.50	46.1	1.4	118.46		
	4.00	46.2	1.5	118.48		
	4.50	46.4	1.7	118.50		
	5.00	46.7	1.9	118.52		
	5.50	46.9	2.2	118.54		
	6.00	47.1	2.4	118.56		
	6.50	47.3	2.6	118.58		
	7.00	47.3	2.6	118.60		
	7.50	47.6	2.9	118.62		
	8.00	47.4	2.7	118.64		
	8.50	47.5	2.8	118.66		
	9.00	47.3	2.6	118.68		
	9.50	47.5	2.8	118.70		
	10.00	47.5	2.8	118.72		

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10.50	47.7	2.9	118.74		
11.00	47.9	3.2	118.76		
11.50	48.1	3.4	118.78		
12.00	48.2	3.4	118.80		
12.50	48.4	3.7	118.82		
13.00	48.4	3.7	118.84		
13.50	48.6	3.9	118.86		
14.00	48.8	4.0	118.88		
14.50	48.9	4.2	118.90		
15.00	49.0	4.3	118.92		
15.50	49.2	4.4	118.94		
16.00	49.4	4.7	118.96		
16.50	49.5	4.8	118.98		
17.00	49.8	5.0	118.99		
17.50	49.8	5.1	119.02		
18.00	49.9	5.2	119.03		
18.50	50.3	5.5	119.05		
19.00	50.3	5.6	119.07		
19.50	50.3	5.6	119.09		
20.00	50.4	5.7	119.11		
20.50	50.7	6.0	119.13		
21.00	50.8	6.0	119.16		
21.50	50.9	6.2	119.17		
22.00	51.2	6.5	119.19		
22.50	51.2	6.5	119.21		
23.00	50.9	6.1	119.22		
23.50	51.1	6.4	119.24		
24.00	51.3	6.5	119.26		
24.50	51.4	6.7	119.29		
25.00	51.6	6.9	119.30		
25.50	51.7	7.0	119.32		
26.00	51.8	7.0	119.34		
26.50	51.9	7.1	119.35		
27.00	51.9	7.2	119.38		
27.50	52.1	7.4	119.39		
28.00	52.2	7.5	119.41		
28.50	52.3	7.6	119.43		
29.00	52.4	7.6	119.44		
29.50	52.5	7.8	119.47		
30.00	52.6	7.9	119.48		
30.50	52.8	8.1	119.50		
31.00	52.9	8.1	119.52		
31.50	52.9	8.2	119.53		
32.00	53.1	8.4	119.55		
32.50	53.2	8.5	119.57		
33.00	53.3	8.6	119.59		
33.50	53.4	8.6	119.61		
34.00	53.6	8.9	119.62		
34.50	53.8	9.1	119.64		
35.00	53.9	9.1	119.66		
35.50	54.0	9.2	119.68		

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36.00	53.5	8.7	119.70		
36.50	49.6	4.9	119.71		
37.00	49.2	4.4	119.73		
37.50	49.8	5.0	119.75		
38.00	49.9	5.2	119.77		
38.50	50.1	5.4	119.78		
39.00	50.3	5.5	119.80		
39.50	50.4	5.7	119.82		
40.00	50.6	5.9	119.83		
40.50	50.8	6.0	119.85		
41.00	50.9	6.2	119.87		
41.50	50.9	6.2	119.88		
42.00	51.1	6.4	119.90		
42.50	51.1	6.4	119.92		
43.00	51.1	6.4	119.94		
43.50	51.3	6.5	119.95		
44.00	51.4	6.6	119.97		
44.50	51.5	6.8	119.98		
45.00	51.6	6.9	120.00		
45.50	51.7	7.0	120.02		
46.00	51.9	7.1	120.04		
46.50	51.9	7.2	120.06		
47.00	52.0	7.3	120.07		
47.50	52.3	7.5	120.09		
48.00	52.3	7.5	120.10		
48.50	52.4	7.6	120.12		
49.00	52.4	7.6	120.14		
49.50	52.5	7.8	120.16		
50.00	52.5	7.8	120.17		
50.50	52.8	8.1	120.19		
51.00	52.9	8.1	120.20		
51.50	52.9	8.2	120.22		
52.00	52.9	8.2	120.24		
52.50	53.0	8.3	120.25		
53.00	53.2	8.5	120.27		
53.50	53.2	8.5	120.29		
54.00	53.4	8.6	120.30		
54.50	53.4	8.6	120.32		
55.00	53.4	8.7	120.33		
55.50	53.5	8.8	120.35		
56.00	53.6	8.9	120.36		
56.50	53.7	9.0	120.38		
57.00	53.8	9.1	120.40		
57.50	53.9	9.2	120.41		
58.00	53.9	9.2	120.43		
58.50	53.9	9.1	120.45		
59.00	53.1	8.4	120.47		
59.50	53.5	8.7	120.48		
60.00	53.8	9.1	120.49		
***** End Flow 2					
***** Start Shutin 2	0.00	53.8	0.0	120.49	0.0000 0.003
	0.50	54.0	0.2	120.51	185.0000 0.003

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8580 DST #1 P.W. Smith #1-15 Zinke & Trumbo Inc.

DATE: 01/20/97

TIME: 05:28:57

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
1.00	54.0	0.2	120.52	93.0000	0.003
1.50	54.1	0.3	120.54	62.3333	0.003
2.00	54.2	0.4	120.56	47.0000	0.003
2.50	54.3	0.5	120.57	37.8000	0.003
3.00	54.2	0.4	120.58	31.6667	0.003
3.50	54.4	0.6	120.60	27.2857	0.003
4.00	54.5	0.7	120.62	24.0000	0.003
4.50	54.5	0.8	120.64	21.4444	0.003
5.00	54.6	0.8	120.65	19.4000	0.003
5.50	54.7	0.9	120.67	17.7273	0.003
6.00	54.9	1.1	120.68	16.3333	0.003
6.50	54.9	1.1	120.70	15.1538	0.003
7.00	55.0	1.3	120.71	14.1429	0.003
7.50	55.1	1.3	120.73	13.2667	0.003
8.00	55.3	1.5	120.74	12.5000	0.003
8.50	55.4	1.6	120.76	11.8235	0.003
9.00	55.5	1.7	120.77	11.2222	0.003
9.50	55.5	1.8	120.79	10.6842	0.003
10.00	55.5	1.8	120.80	10.2000	0.003
10.50	55.6	1.8	120.82	9.7619	0.003
11.00	55.8	2.0	120.83	9.3636	0.003
11.50	55.9	2.1	120.85	9.0000	0.003
12.00	56.0	2.2	120.86	8.6667	0.003
12.50	56.1	2.3	120.88	8.3600	0.003
13.00	56.1	2.3	120.89	8.0769	0.003
13.50	56.2	2.4	120.90	7.8148	0.003
14.00	56.4	2.6	120.92	7.5714	0.003
14.50	56.4	2.6	120.94	7.3448	0.003
15.00	56.6	2.8	120.95	7.1333	0.003
15.50	56.6	2.9	120.96	6.9355	0.003
16.00	56.7	2.9	120.98	6.7500	0.003
16.50	56.8	3.0	120.99	6.5758	0.003
17.00	56.8	3.0	121.01	6.4118	0.003
17.50	57.0	3.2	121.03	6.2571	0.003
18.00	57.1	3.3	121.04	6.1111	0.003
18.50	57.1	3.3	121.05	5.9730	0.003
19.00	57.2	3.4	121.07	5.8421	0.003
19.50	57.2	3.4	121.08	5.7179	0.003
20.00	57.5	3.7	121.10	5.6000	0.003
20.50	57.6	3.8	121.11	5.4878	0.003
21.00	57.7	3.9	121.13	5.3810	0.003
21.50	57.7	3.9	121.14	5.2791	0.003
22.00	57.9	4.1	121.16	5.1818	0.003
22.50	58.0	4.2	121.17	5.0889	0.003
23.00	58.0	4.2	121.19	5.0000	0.003
23.50	58.1	4.3	121.20	4.9149	0.003
24.00	58.2	4.4	121.21	4.8333	0.003
24.50	58.2	4.4	121.23	4.7551	0.003
25.00	58.3	4.5	121.25	4.6800	0.003
25.50	58.4	4.6	121.26	4.6078	0.003
26.00	58.4	4.6	121.28	4.5385	0.003

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8580 DST #1 P.W. Smith #1-15 Zinke & Trumbo Inc.

DATE: 01/20/97

TIME: 05:28:57

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
26.50	58.5	4.7	121.29	4.4717	0.003
27.00	58.6	4.8	121.30	4.4074	0.003
27.50	58.7	4.9	121.31	4.3455	0.003
28.00	58.7	4.9	121.33	4.2857	0.003
28.50	58.7	4.9	121.34	4.2281	0.003
29.00	58.8	5.0	121.35	4.1724	0.003
29.50	58.9	5.1	121.37	4.1186	0.003
30.00	59.1	5.3	121.39	4.0667	0.003
30.50	59.1	5.3	121.40	4.0164	0.003
31.00	59.1	5.4	121.42	3.9677	0.003
31.50	59.3	5.5	121.43	3.9206	0.004
32.00	59.4	5.6	121.44	3.8750	0.004
32.50	59.5	5.7	121.46	3.8308	0.004
33.00	59.6	5.8	121.47	3.7879	0.004
33.50	59.6	5.8	121.48	3.7463	0.004
34.00	59.7	5.9	121.50	3.7059	0.004
34.50	59.7	6.0	121.51	3.6667	0.004
35.00	59.8	6.0	121.52	3.6286	0.004
35.50	59.8	6.0	121.54	3.5915	0.004
36.00	60.0	6.2	121.55	3.5556	0.004
36.50	60.1	6.3	121.57	3.5205	0.004
37.00	60.2	6.4	121.58	3.4865	0.004
37.50	60.3	6.5	121.59	3.4533	0.004
38.00	60.3	6.5	121.61	3.4211	0.004
38.50	60.4	6.6	121.62	3.3896	0.004
39.00	60.5	6.7	121.63	3.3590	0.004
39.50	60.7	6.9	121.65	3.3291	0.004
40.00	60.7	6.9	121.66	3.3000	0.004
40.50	60.7	6.9	121.68	3.2716	0.004
41.00	60.8	7.0	121.69	3.2439	0.004
41.50	60.9	7.1	121.70	3.2169	0.004
42.00	60.9	7.1	121.71	3.1905	0.004
42.50	61.0	7.2	121.73	3.1647	0.004
43.00	61.2	7.4	121.74	3.1395	0.004
43.50	61.3	7.5	121.76	3.1149	0.004
44.00	61.3	7.6	121.77	3.0909	0.004
44.50	61.4	7.6	121.78	3.0674	0.004
45.00	61.5	7.7	121.79	3.0444	0.004
45.50	61.6	7.8	121.80	3.0220	0.004
46.00	61.8	8.0	121.82	3.0000	0.004
46.50	61.8	8.0	121.84	2.9785	0.004
47.00	61.9	8.1	121.85	2.9574	0.004
47.50	62.0	8.2	121.86	2.9368	0.004
48.00	62.1	8.3	121.88	2.9167	0.004
48.50	62.2	8.4	121.89	2.8969	0.004
49.00	62.3	8.5	121.90	2.8776	0.004
49.50	62.3	8.6	121.92	2.8586	0.004
50.00	62.4	8.6	121.93	2.8400	0.004
50.50	62.5	8.7	121.94	2.8218	0.004
51.00	62.5	8.7	121.95	2.8039	0.004
51.50	62.6	8.8	121.97	2.7864	0.004

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8580 DST #1 P.W. Smith #1-15 Zinke & Trumbo Inc.

DATE: 01/20/97

TIME: 05:28:57

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
52.00	62.6	8.8	121.98	2.7692	0.004
52.50	62.7	8.9	121.99	2.7524	0.004
53.00	62.9	9.1	122.00	2.7358	0.004
53.50	62.9	9.1	122.02	2.7196	0.004
54.00	63.0	9.2	122.03	2.7037	0.004
54.50	63.0	9.2	122.05	2.6881	0.004
55.00	63.1	9.3	122.05	2.6727	0.004
55.50	63.2	9.4	122.07	2.6577	0.004
56.00	63.3	9.6	122.08	2.6429	0.004
56.50	63.3	9.6	122.09	2.6283	0.004
57.00	63.4	9.6	122.11	2.6140	0.004
57.50	63.5	9.7	122.12	2.6000	0.004
58.00	63.7	9.9	122.13	2.5862	0.004
58.50	63.8	10	122.15	2.5726	0.004
59.00	63.8	10	122.15	2.5593	0.004
59.50	63.8	10.1	122.17	2.5462	0.004
60.00	63.9	10.1	122.18	2.5333	0.004
60.50	63.9	10.1	122.20	2.5207	0.004
61.00	64.0	10.2	122.21	2.5082	0.004
61.50	64.2	10.4	122.22	2.4959	0.004
62.00	64.3	10.5	122.23	2.4839	0.004
62.50	64.4	10.6	122.24	2.4720	0.004
63.00	64.4	10.6	122.26	2.4603	0.004
63.50	64.4	10.6	122.26	2.4488	0.004
64.00	64.5	10.7	122.29	2.4375	0.004
64.50	64.6	10.8	122.29	2.4264	0.004
65.00	64.7	10.9	122.30	2.4154	0.004
65.50	64.7	10.9	122.32	2.4046	0.004
66.00	64.8	11.0	122.33	2.3939	0.004
66.50	64.9	11.1	122.34	2.3835	0.004
67.00	64.9	11.1	122.35	2.3731	0.004
67.50	65.0	11.2	122.37	2.3630	0.004
68.00	65.1	11.3	122.38	2.3529	0.004
68.50	65.1	11.3	122.39	2.3431	0.004
69.00	65.2	11.4	122.41	2.3333	0.004
69.50	65.4	11.7	122.42	2.3237	0.004
70.00	65.4	11.7	122.42	2.3143	0.004
70.50	65.4	11.7	122.44	2.3050	0.004
71.00	65.5	11.7	122.45	2.2958	0.004
71.50	65.6	11.8	122.46	2.2867	0.004
72.00	65.7	11.9	122.48	2.2778	0.004
72.50	65.8	12.0	122.49	2.2690	0.004
73.00	65.9	12.1	122.50	2.2603	0.004
73.50	66.0	12.2	122.51	2.2517	0.004
74.00	66.0	12.2	122.53	2.2432	0.004
74.50	66.1	12.3	122.54	2.2349	0.004
75.00	66.1	12.3	122.55	2.2267	0.004
75.50	66.2	12.4	122.56	2.2185	0.004
76.00	66.3	12.5	122.57	2.2105	0.004
76.50	66.5	12.7	122.58	2.2026	0.004
77.00	66.5	12.8	122.60	2.1948	0.004

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8580 DST #1 P.W. Smith #1-15 Zinke & Trumbo Inc.

DATE: 01/20/97

TIME: 05:28:57

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
77.50	66.6	12.8	122.60	2.1871	0.004
78.00	66.7	12.9	122.61	2.1795	0.004
78.50	66.7	12.9	122.63	2.1720	0.004
79.00	66.8	13.0	122.64	2.1646	0.004
79.50	66.9	13.1	122.66	2.1572	0.004
80.00	66.9	13.1	122.67	2.1500	0.004
80.50	67.0	13.2	122.68	2.1429	0.004
81.00	67.0	13.3	122.69	2.1358	0.004
81.50	67.1	13.3	122.70	2.1288	0.005
82.00	67.2	13.4	122.72	2.1220	0.005
82.50	67.4	13.6	122.73	2.1152	0.005
83.00	67.4	13.6	122.74	2.1084	0.005
83.50	67.5	13.7	122.75	2.1018	0.005
84.00	67.6	13.8	122.76	2.0952	0.005
84.50	67.6	13.8	122.77	2.0888	0.005
85.00	67.7	13.9	122.78	2.0824	0.005
85.50	67.8	14.0	122.80	2.0760	0.005
86.00	68.0	14.2	122.81	2.0698	0.005
86.50	68.0	14.2	122.82	2.0636	0.005
87.00	68.1	14.4	122.83	2.0575	0.005
87.50	68.3	14.5	122.84	2.0514	0.005
88.00	68.4	14.6	122.85	2.0455	0.005
88.50	68.5	14.7	122.86	2.0395	0.005
89.00	68.5	14.8	122.87	2.0337	0.005
89.50	68.5	14.8	122.88	2.0279	0.005
90.00	68.6	14.8	122.89	2.0222	0.005
90.50	68.7	14.9	122.90	2.0166	0.005
91.00	68.7	14.9	122.92	2.0110	0.005
91.50	68.9	15.1	122.93	2.0055	0.005
92.00	68.9	15.1	122.94	2.0000	0.005
92.50	69.0	15.2	122.95	1.9946	0.005
93.00	69.1	15.3	122.96	1.9892	0.005
93.50	69.1	15.4	122.98	1.9840	0.005
94.00	69.2	15.4	122.98	1.9787	0.005
94.50	69.2	15.4	123.00	1.9735	0.005
95.00	69.3	15.5	123.01	1.9684	0.005
95.50	69.3	15.5	123.02	1.9634	0.005
96.00	69.5	15.7	123.03	1.9583	0.005
96.50	69.5	15.7	123.05	1.9534	0.005
97.00	69.6	15.8	123.05	1.9485	0.005
97.50	69.7	15.9	123.07	1.9436	0.005
98.00	69.7	15.9	123.07	1.9388	0.005
98.50	69.8	16.0	123.09	1.9340	0.005
99.00	69.9	16.1	123.10	1.9293	0.005
99.50	69.9	16.1	123.11	1.9246	0.005
100.00	70.0	16.2	123.12	1.9200	0.005
100.50	70.0	16.2	123.13	1.9154	0.005
101.00	70.1	16.3	123.14	1.9109	0.005
101.50	70.2	16.4	123.15	1.9064	0.005
102.00	70.2	16.4	123.17	1.9020	0.005
102.50	70.2	16.4	123.18	1.8976	0.005

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 8580 DST #1 P.W. Smith #1-15 Zinke & Trumbo Inc.

DATE: 01/20/97

TIME: 05:28:57

	Time	Pressure	delta P	Temp.	(T+dT)/dT	P ² /10 ⁶
		PSig	PSig	DEG F		
	103.00	70.3	16.5	123.19	1.8932	0.005
	103.50	70.4	16.6	123.19	1.8889	0.005
	104.00	70.5	16.7	123.21	1.8846	0.005
	104.50	70.6	16.9	123.22	1.8804	0.005
	105.00	70.6	16.9	123.23	1.8762	0.005
	105.50	70.7	16.9	123.24	1.8720	0.005
	106.00	70.7	16.9	123.26	1.8679	0.005
	106.50	70.8	17.0	123.26	1.8638	0.005
	107.00	70.9	17.1	123.27	1.8598	0.005
	107.50	70.9	17.1	123.28	1.8558	0.005
	108.00	71.0	17.2	123.30	1.8519	0.005
	108.50	71.1	17.3	123.30	1.8479	0.005
	109.00	71.1	17.4	123.32	1.8440	0.005
	109.50	71.1	17.4	123.33	1.8402	0.005
	110.00	71.1	17.3	123.34	1.8364	0.005
	110.50	71.2	17.5	123.35	1.8326	0.005
	111.00	71.3	17.5	123.36	1.8288	0.005
	111.50	71.5	17.7	123.37	1.8251	0.005
	112.00	71.5	17.7	123.38	1.8214	0.005
	112.50	71.6	17.8	123.38	1.8178	0.005
	113.00	71.7	17.9	123.40	1.8142	0.005
	113.50	71.8	18.0	123.41	1.8106	0.005
	114.00	71.9	18.1	123.42	1.8070	0.005
	114.50	72.0	18.2	123.44	1.8035	0.005
	115.00	72.0	18.2	123.44	1.8000	0.005
	115.50	72.2	18.4	123.45	1.7965	0.005
	116.00	72.2	18.4	123.47	1.7931	0.005
	116.50	72.3	18.5	123.48	1.7897	0.005
	117.00	72.4	18.6	123.48	1.7863	0.005
	117.50	72.4	18.6	123.50	1.7830	0.005
***** End Shut-in 2	118.00	72.0	18.2	123.51	1.7797	0.005
***** Final Hydro.	494.50	2722.9	0.0	123.76		

TEST HISTORY

8580 DST #1 P.W. Smith #1-15 Zinke & Trumbo Inc.

Flag Points

t (Min.) P (PSig)

A: 0.00 2784.05
 B: 0.00 40.70
 C: 32.00 55.13
 D: 58.00 86.94
 E: 0.00 44.72
 F: 60.00 53.79
 G: 118.00 72.00
 Q: 0.00 2722.95

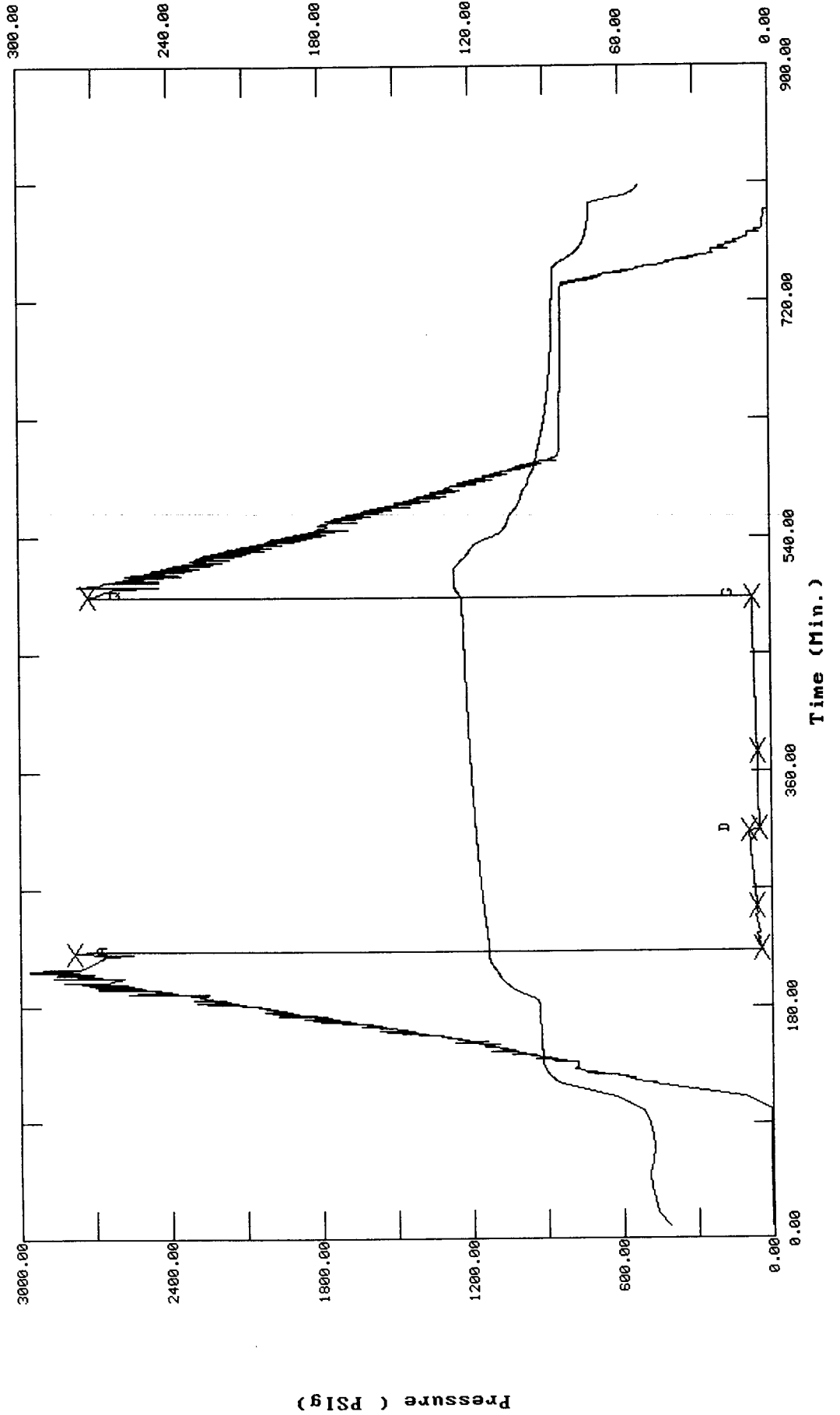
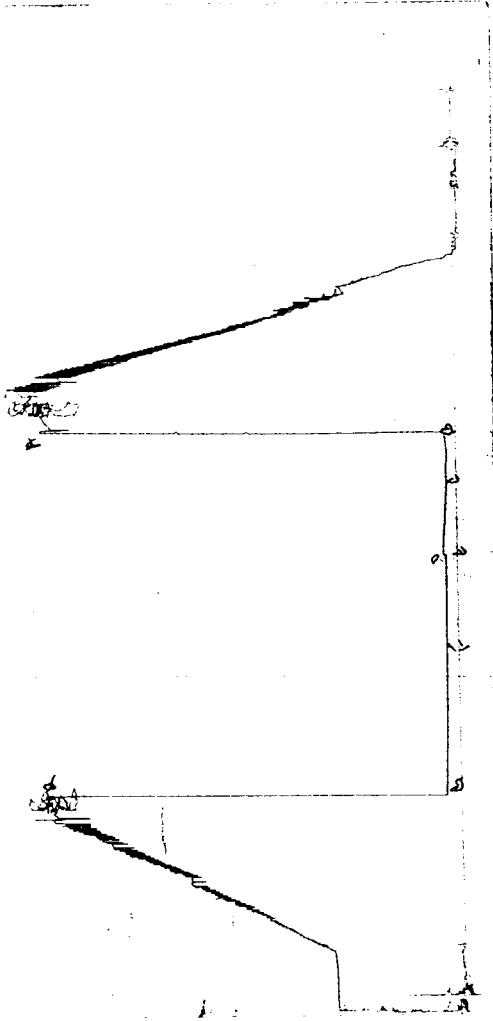


CHART PAGE

~~D5721~~

11038



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. 8580 Date 1-20-97
Company Name Zinke & Trumbo Inc.
Lease P. W. Smith #1-15 Test No. #1
County Grant KS Sec. 15 Twp. 30S Rng. 37W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure 50 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 1,800 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 56
Mud Weight 9.3
Filtrate 7.3
Other LCM 3#

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.