

WELL NAME: Staudinger #1
COMPANY: Maxwell Operating Co., Inc.
LOCATION: 9-16S-12W
Barton County, Kansas
DATE: 12/18/97

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Operating Co.

DATE 12-15-97

WELL NAME: Staudinger #1

KB 1873.00 ft

TICKET NO: 10884

DST #1

LOCATION : 9-16s-12w

GR 1868.00 ft

FORMATION: K.C.

INTERVAL : 3052.00 To 3090.00 ft

TD 3090.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	3027	10270	10270			PF Fr. 0002 to 0032 hr
SI 30 Range(Psi)	4995.0	4150.0	4150.0	0.0	0.0	IS Fr. 0032 to 0102 hr
SF 30 Clock(hrs)	elec.	12hr.	12 hr			SF Fr. 0102 to 0132 hr
FS 30 Depth(ft)	3057.0	3065.0	3065.0	0.0	0.0	FS Fr. 0132 to 0202 hr

	Field	1	2	3	4	
A. Init Hydro	1514.0	1527.0	1505.0	0.0	0.0	T STARTED 2310 hr
B. First Flow	15.0	52.0	52.0	0.0	0.0	T ON BOTM 0000 hr
B1. Final Flow	17.0	52.0	52.0	0.0	0.0	T OPEN 0002 hr
C. In Shut-in	42.0	72.0	59.0	0.0	0.0	T PULLED 0202 hr
D. Init Flow	17.0	52.0	43.0	0.0	0.0	T OUT 0401 hr
E. Final Flow	19.0	52.0	43.0	0.0	0.0	
F. Fl Shut-in	36.0	52.0	46.0	0.0	0.0	
G. Final Hydro	1469.0	1527.0	1501.0	0.0	0.0	
Inside/Outside	i	o	o			

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP
 5.00 ft of Slightly oil cut mud 4%oil 96%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: Weak Blow Throughout
 1/2" Blow.

Initial Shutin: No Blow.

Final Flow: Weak surface blow died
 in 15 minutes.

Final Shutin: No blow.

SAMPLES:

SENT TO:

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.60 lb/
Vis.	48.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased N	
Tester	Ray Schwager
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

*** TOOL DIAGRAM *** CONV.

WELL NAME: Staudinger #1

LOCATION : 9-16s-12w

TICKET No. 10884 D.S.T. No. 1 DATE 12-15-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 38

TOTAL TOOL 58

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.Stands Single 1 Total 30

D.P. ABOVE TOOLS.Stands48 Single 1 Total 3008

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3096

TOTAL DEPTH 3090

TOTAL DRILL PIPE ABOVE K.B. 6

REMARKS:

P.O. SUB	
C.O. SUB	3032
S.I. TOOL	3037
HMV	3042
JARS	
SAFETY JOINT	
PACKER	3047
PACKER	3052
DEPTH	
STUBB	
ANCHOR	
Alpine rec @3057	
Ak-1 rec @3065	
T.C.	
DEPTH	
1'perf	3053
4'perf	3057
1' "	3058
5' "	3063
5'perf	3068
5' "	3073
5' "	3078
5' "	3083
5' "	3088
BULLNOSE	
T.D. 2'Bullplug	3090

 ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING
 TEST: Tkt#10884 DST#1 Staudinger #1 Maxwell Oper.Co. Inc.
 DATE: 12/15/97 TIME: 23:11:22

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	68.50	1514.8	0.0	92.69		
***** Start Flow 1	0.00	15.9	0.0	92.90		
	0.50	17.3	1.4	93.11		
	1.00	17.6	1.7	93.24		
	1.50	17.8	1.9	93.34		
	2.00	18.0	2.1	93.41		
	2.50	18.3	2.3	93.50		
	3.00	18.4	2.5	93.57		
	3.50	18.6	2.6	93.64		
	4.00	18.7	2.8	93.68		
	4.50	18.8	2.9	93.73		
	5.00	19.0	3.1	93.76		
	5.50	19.0	3.1	93.76		
	6.00	19.0	3.0	93.78		
	6.50	18.9	2.9	93.80		
	7.00	19.0	3.1	93.82		
	7.50	19.2	3.2	93.82		
	8.00	19.2	3.2	93.84		
	8.50	19.2	3.3	93.85		
	9.00	19.3	3.4	93.84		
	9.50	19.4	3.5	93.84		
	10.00	19.5	3.6	93.84		
	10.50	19.6	3.7	93.84		
	11.00	20.0	4.0	93.84		
	11.50	20.0	4.1	93.83		
	12.00	20.1	4.1	93.84		
	12.50	20.3	4.3	93.83		
	13.00	20.3	4.4	93.83		
	13.50	20.4	4.5	93.81		
	14.00	20.6	4.7	93.82		
	14.50	17.9	2.0	93.83		
	15.00	18.7	2.8	93.82		
	15.50	17.0	1.1	93.81		
	16.00	18.0	2.1	93.83		
	16.50	18.9	3.0	93.83		
	17.00	18.3	2.4	93.82		
	17.50	19.1	3.2	93.83		
	18.00	19.9	3.9	93.83		
	18.50	19.9	4.0	93.83		
	19.00	17.6	1.7	93.84		
	19.50	18.5	2.6	93.83		
	20.00	19.1	3.2	93.86		
	20.50	19.4	3.5	93.85		
	21.00	20.0	4.1	93.88		
	21.50	19.4	3.4	93.87		
	22.00	19.9	3.9	93.87		
	22.50	20.4	4.5	93.87		
	23.00	20.5	4.6	93.89		
	23.50	17.9	1.9	93.92		
	24.00	18.4	2.5	93.93		
	24.50	19.2	3.2	93.94		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10884 DST#1 Staudinger #1 Maxwell Oper.Co. Inc.

DATE: 12/15/97

TIME: 23:11:22

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	25.00	19.9	3.9	93.97		
	25.50	19.0	3.0	93.97		
	26.00	17.8	1.8	93.97		
	26.50	18.4	2.5	93.97		
	27.00	19.1	3.1	93.97		
	27.50	19.7	3.7	93.97		
	28.00	18.7	2.8	93.97		
	28.50	19.4	3.5	94.00		
	29.00	19.8	3.9	93.98		
	29.50	19.1	3.2	94.03		
	30.00	19.7	3.8	94.05		
	30.50	20.1	4.2	94.06		
***** End Flow 1	31.00	17.8	1.9	94.08		
***** Start Shutin 1	0.00	17.8	0.0	94.08	0.0000	0.000
	0.50	18.5	0.7	94.10	63.0000	0.000
	1.00	18.9	1.1	94.12	32.0000	0.000
	1.50	19.4	1.6	94.13	21.6667	0.000
	2.00	20.1	2.2	94.15	16.5000	0.000
	2.50	20.7	2.9	94.16	13.4000	0.000
	3.00	21.2	3.3	94.19	11.3333	0.000
	3.50	21.6	3.7	94.21	9.8571	0.000
	4.00	22.1	4.3	94.23	8.7500	0.000
	4.50	22.5	4.7	94.24	7.8889	0.001
	5.00	22.7	4.9	94.26	7.2000	0.001
	5.50	23.1	5.3	94.28	6.6364	0.001
	6.00	23.4	5.5	94.32	6.1667	0.001
	6.50	23.8	5.9	94.33	5.7692	0.001
	7.00	24.1	6.3	94.35	5.4286	0.001
	7.50	24.7	6.9	94.37	5.1333	0.001
	8.00	25.2	7.4	94.39	4.8750	0.001
	8.50	25.7	7.9	94.41	4.6471	0.001
	9.00	26.1	8.3	94.43	4.4444	0.001
	9.50	26.5	8.7	94.46	4.2632	0.001
	10.00	26.8	9.0	94.46	4.1000	0.001
	10.50	26.9	9.1	94.50	3.9524	0.001
	11.00	27.1	9.3	94.52	3.8182	0.001
	11.50	27.7	9.9	94.54	3.6957	0.001
	12.00	28.1	10.3	94.55	3.5833	0.001
	12.50	28.5	10.7	94.59	3.4800	0.001
	13.00	28.9	11.1	94.60	3.3846	0.001
	13.50	29.3	11.5	94.64	3.2963	0.001
	14.00	29.8	12.0	94.66	3.2143	0.001
	14.50	30.2	12.4	94.67	3.1379	0.001
	15.00	30.5	12.7	94.68	3.0667	0.001
	15.50	30.9	13.1	94.71	3.0000	0.001
	16.00	31.3	13.5	94.73	2.9375	0.001
	16.50	31.8	14.0	94.76	2.8788	0.001
	17.00	32.2	14.4	94.78	2.8235	0.001
	17.50	32.6	14.8	94.80	2.7714	0.001
	18.00	32.9	15.1	94.82	2.7222	0.001
	18.50	33.4	15.6	94.87	2.6757	0.001

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	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	19.00	33.8	16.0	94.87	2.6316	0.001
	19.50	34.3	16.4	94.89	2.5897	0.001
	20.00	34.6	16.8	94.93	2.5500	0.001
	20.50	35.0	17.1	94.95	2.5122	0.001
	21.00	35.4	17.6	94.96	2.4762	0.001
	21.50	35.8	18.0	94.99	2.4419	0.001
	22.00	36.2	18.4	95.02	2.4091	0.001
	22.50	36.6	18.8	95.03	2.3778	0.001
	23.00	37.0	19.2	95.06	2.3478	0.001
	23.50	37.5	19.6	95.07	2.3191	0.001
	24.00	37.8	20.0	95.11	2.2917	0.001
	24.50	38.3	20.4	95.13	2.2653	0.001
	25.00	38.7	20.9	95.15	2.2400	0.001
	25.50	39.1	21.3	95.17	2.2157	0.002
	26.00	39.4	21.6	95.20	2.1923	0.002
	26.50	39.9	22.1	95.22	2.1698	0.002
	27.00	40.4	22.6	95.25	2.1481	0.002
	27.50	40.8	23.0	95.28	2.1273	0.002
	28.00	41.2	23.4	95.29	2.1071	0.002
	28.50	41.6	23.8	95.32	2.0877	0.002
***** End Shut-in 1	29.00	42.1	24.3	95.33	2.0690	0.002
	29.50	42.5	24.7	95.37	2.0508	0.002
***** Start Flow 2	0.00	17.3	0.0	95.46		
	0.50	18.1	0.8	95.48		
	1.00	17.8	0.5	95.50		
	1.50	18.4	1.1	95.51		
	2.00	16.6	-0.7	95.54		
	2.50	17.5	0.2	95.56		
	3.00	18.1	0.8	95.59		
	3.50	18.6	1.2	95.62		
	4.00	17.1	-0.2	95.64		
	4.50	17.6	0.2	95.66		
	5.00	18.1	0.8	95.68		
	5.50	18.3	1	95.71		
	6.00	17.8	0.5	95.74		
	6.50	18.3	1.0	95.75		
	7.00	18.8	1.5	95.78		
	7.50	19.4	2.0	95.80		
	8.00	19.9	2.5	95.82		
	8.50	20.3	2.9	95.85		
	9.00	19.2	1.9	95.85		
	9.50	19.6	2.3	95.88		
	10.00	20.1	2.7	95.91		
	10.50	20.5	3.1	95.93		
	11.00	19.4	2.0	95.96		
	11.50	19.8	2.5	95.99		
	12.00	20.3	2.9	96.00		
	12.50	18.5	1.2	96.03		
	13.00	19.0	1.7	96.05		
	13.50	19.6	2.2	96.07		
	14.00	20.1	2.7	96.08		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 12/15/97

TIME: 23:11:22

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	14.50	20.4	3.1	96.12		
	15.00	19.2	1.8	96.14		
	15.50	19.5	2.2	96.16		
	16.00	19.4	2.0	96.18		
	16.50	19.4	2.1	96.21		
	17.00	19.8	2.5	96.23		
	17.50	19.6	2.3	96.24		
	18.00	20.0	2.7	96.29		
	18.50	20.4	3.1	96.30		
	19.00	19.5	2.2	96.32		
	19.50	19.8	2.5	96.36		
	20.00	19.3	2.0	96.40		
	20.50	19.8	2.4	96.44		
	21.00	19.3	1.9	96.44		
	21.50	19.7	2.3	96.45		
	22.00	20.1	2.8	96.45		
	22.50	20.6	3.3	96.45		
***** End Flow 2	23.00	19.4	2.1	96.45		
***** Start Shutin 2	0.00	19.4	0.0	96.45	0.0000	0.000
	0.50	19.7	0.3	96.48	109.0000	0.000
	1.00	20.2	0.8	96.49	55.0000	0.000
	1.50	20.7	1.2	96.51	37.0000	0.000
	2.00	21.0	1.6	96.52	28.0000	0.000
	2.50	19.1	-0.3	96.55	22.6000	0.000
	3.00	19.7	0.3	96.58	19.0000	0.000
	3.50	20.0	0.6	96.60	16.4286	0.000
	4.00	20.5	1.0	96.63	14.5000	0.000
	4.50	18.6	-0.8	96.66	13.0000	0.000
	5.00	19.0	-0.4	96.68	11.8000	0.000
	5.50	19.5	0.1	96.70	10.8182	0.000
	6.00	19.9	0.5	96.71	10.0000	0.000
	6.50	20.5	1.0	96.75	9.3077	0.000
	7.00	20.8	1.4	96.75	8.7143	0.000
	7.50	19.0	-0.4	96.78	8.2000	0.000
	8.00	19.4	-0.0	96.81	7.7500	0.000
	8.50	19.8	0.3	96.83	7.3529	0.000
	9.00	20.1	0.7	96.84	7.0000	0.000
	9.50	20.5	1.1	96.87	6.6842	0.000
	10.00	20.9	1.5	96.89	6.4000	0.000
	10.50	21.3	1.8	96.91	6.1429	0.000
	11.00	21.6	2.2	96.93	5.9091	0.000
	11.50	22.0	2.6	96.96	5.6957	0.000
	12.00	22.4	3.0	96.98	5.5000	0.001
	12.50	22.7	3.2	96.99	5.3200	0.001
	13.00	23.1	3.7	97.02	5.1538	0.001
	13.50	23.4	4.0	97.04	5.0000	0.001
	14.00	23.7	4.3	97.06	4.8571	0.001
	14.50	24.1	4.7	97.06	4.7241	0.001
	15.00	24.3	4.9	97.11	4.6000	0.001
	15.50	24.6	5.2	97.13	4.4839	0.001
	16.00	25.0	5.5	97.13	4.3750	0.001

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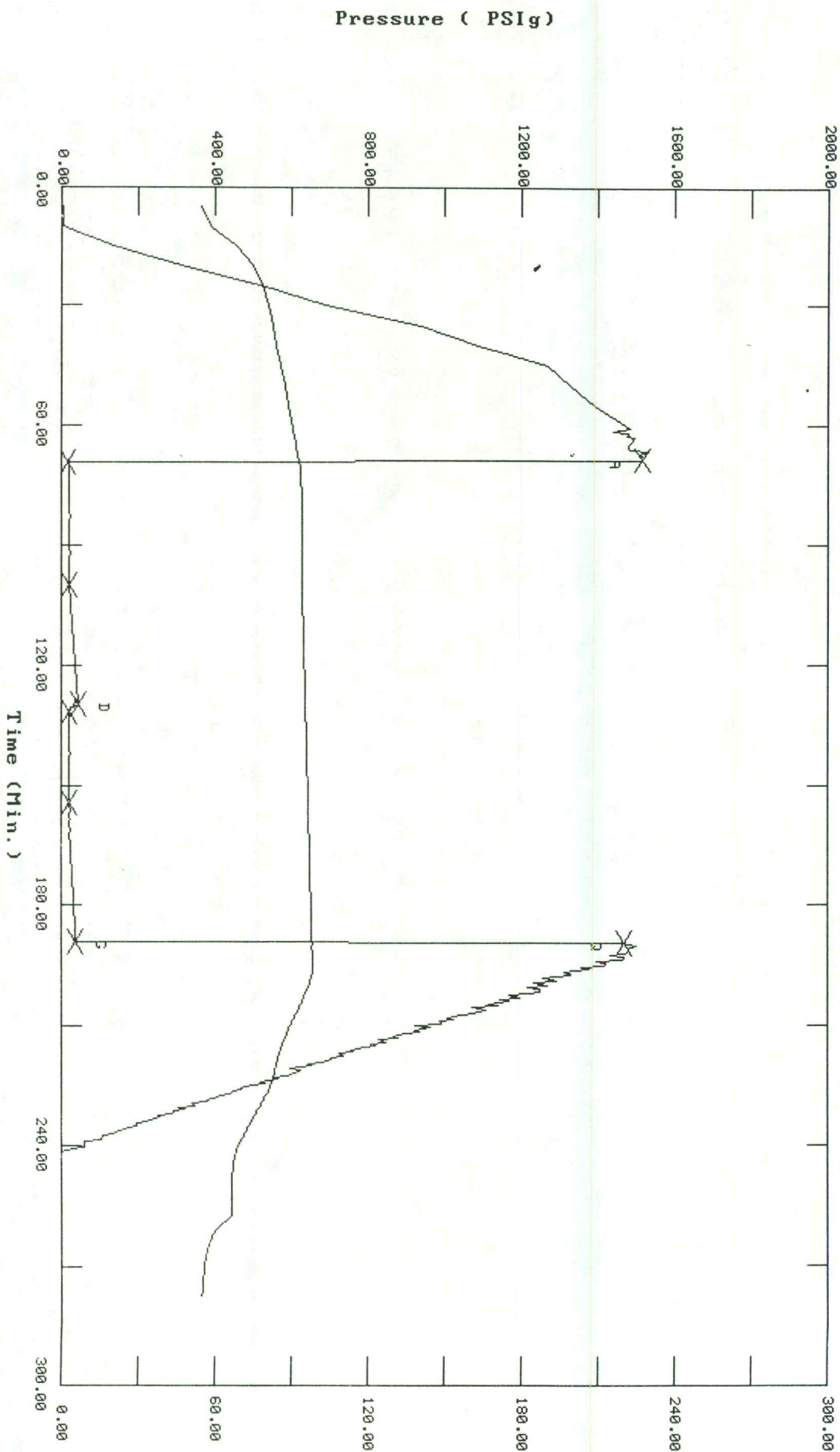
	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	16.50	25.3	5.8	97.16	4.2727	0.001
	17.00	25.7	6.2	97.18	4.1765	0.001
	17.50	26.0	6.6	97.19	4.0857	0.001
	18.00	26.4	7.0	97.20	4.0000	0.001
	18.50	26.7	7.2	97.24	3.9189	0.001
	19.00	26.9	7.5	97.27	3.8421	0.001
	19.50	27.2	7.8	97.27	3.7692	0.001
	20.00	27.6	8.2	97.30	3.7000	0.001
	20.50	27.9	8.5	97.32	3.6341	0.001
	21.00	28.2	8.8	97.34	3.5714	0.001
	21.50	28.5	9.1	97.37	3.5116	0.001
	22.00	28.8	9.4	97.37	3.4545	0.001
	22.50	29.1	9.7	97.39	3.4000	0.001
	23.00	29.4	10.0	97.40	3.3478	0.001
	23.50	29.7	10.3	97.44	3.2979	0.001
	24.00	30.0	10.6	97.46	3.2500	0.001
	24.50	30.3	10.9	97.48	3.2041	0.001
	25.00	30.7	11.3	97.49	3.1600	0.001
	25.50	30.9	11.5	97.52	3.1176	0.001
	26.00	31.2	11.8	97.53	3.0769	0.001
	26.50	31.5	12.1	97.55	3.0377	0.001
	27.00	31.8	12.4	97.58	3.0000	0.001
	27.50	32.1	12.7	97.58	2.9636	0.001
	28.00	32.4	13.0	97.60	2.9286	0.001
	28.50	32.7	13.3	97.62	2.8947	0.001
	29.00	33.0	13.6	97.64	2.8621	0.001
	29.50	33.3	13.9	97.65	2.8305	0.001
	30.00	33.6	14.2	97.68	2.8000	0.001
	30.50	33.9	14.5	97.69	2.7705	0.001
	31.00	34.3	14.9	97.72	2.7419	0.001
	31.50	34.6	15.2	97.73	2.7143	0.001
	32.00	34.9	15.5	97.77	2.6875	0.001
	32.50	35.2	15.7	97.77	2.6615	0.001
	33.00	35.5	16.1	97.80	2.6364	0.001
	33.50	35.8	16.4	97.80	2.6119	0.001
	34.00	36.1	16.6	97.83	2.5882	0.001
	34.50	36.4	17.0	97.86	2.5652	0.001
***** End Shut-in 2						
***** Final Hydro.	189.50	1470.0	0.0	98.08		

Tkt#10884 DST#1 Staudinger #1 Maxwell Oper. Co. Inc.

TEST HISTORY

Flag Points
t(Min.) P(PSig)

A:	0.00	1514.84
B:	0.00	15.93
C:	31.00	17.81
D:	29.50	42.52
E:	0.00	17.33
F:	23.00	19.41
G:	34.50	36.39
H:	0.00	1469.96

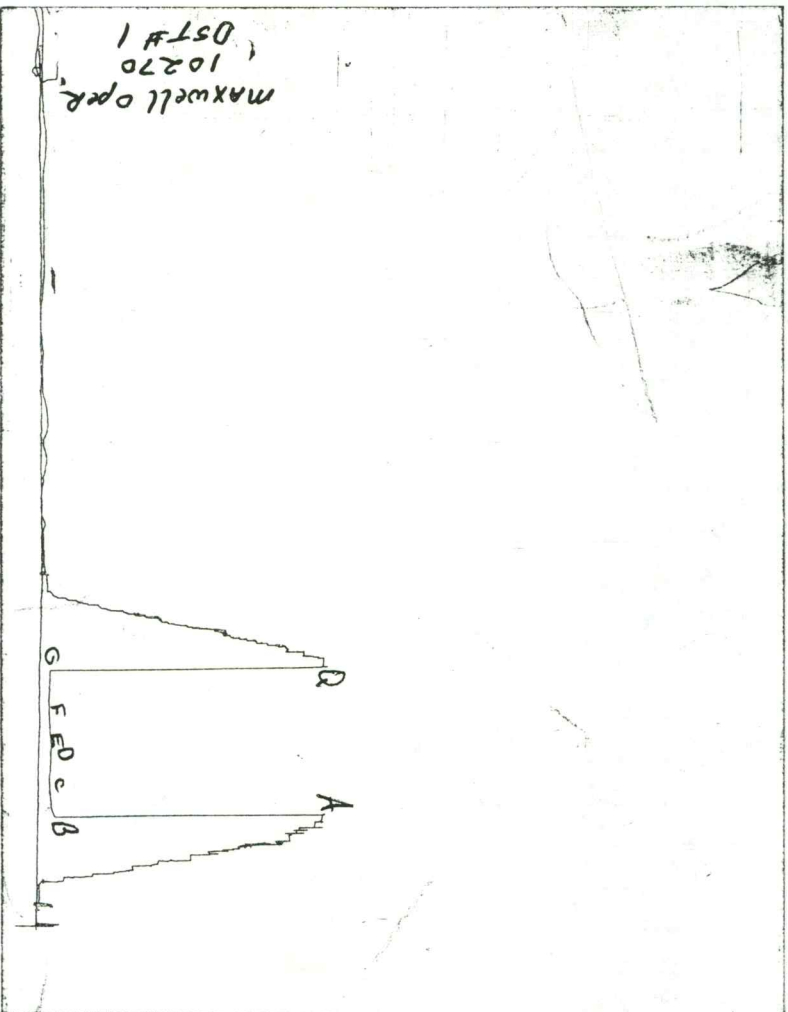


Temperature (DEG F)

Pressure (PSig)

Time (Min.)

CHART PAGE



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

Test Ticket

No 10884

Well Name & No. <u>STAUDINGER #1</u>	Test No. <u>1</u>	Date <u>12-15-97</u>
Company <u>MAXWELL OPERATING Co., Inc</u>	Zone Tested <u>KC</u>	
Address <u>P.O. Box 1213 Hays, Ks 67601</u>	Elevation <u>1873</u> KB <u>1868</u> GL	
Co. Rep / Geo. <u>Ron Nelson</u>	Cont. <u>Discovery Delg</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>9</u> Twp. <u>16^s</u> Rge. <u>12^w</u>	Co. <u>BARTON</u> State <u>Ks</u>	
No. of Copies <u>Reg</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u> </u>	Evaluation (Y, N) <u> </u>

Interval Tested 3052-3090 Initial Str Wt./Lbs. 31000 Unseated Str Wt./Lbs. 31000
 Anchor Length 38 Wt. Set Lbs. 20000 Wt. Pulled Loose/Lbs. 34000
 Top Packer Depth 3047 Tool Weight 2900
 Bottom Packer Depth 3052 Hole Size — 7 7/8" yes Rubber Size — 6 3/4" yes
 Total Depth 3090 Wt. Pipe Run Drill Collar Run 30
 Mud Wt. 9.6 LCM Vis. 48 WL 12 Drill Pipe Size 4 1/2 XH Ft. Run 3022
 Blow Description IFP- WEAK Blow throughout 1/2" Blow
FFP- WEAK surface Blow died in 15 min

Recovery — Total Feet 5 GIP Ft. in DC 5 Ft. in DP
 Rec. 5 Feet Of 510 CM — %gas 4 %oil %water 96 %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 BHT 98 °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 6000 ppm System
 (A) Initial Hydrostatic Mud 1514 PSI Recorder No. 3027 T-Started 11:15 pm
 (B) First Initial Flow Pressure 15 PSI (depth) 3057 T-Open 12:25 AM
 (C) First Final Flow Pressure 17 PSI Recorder No. 10270 T-Pulled 2:25 AM
 (D) Initial Shut-in Pressure 42 PSI (depth) 3065 T-Out 4:15 AM
 (E) Second Initial Flow Pressure 17 PSI Recorder No.
 (F) Second Final Flow Pressure 19 PSI (depth)
 (G) Final Shut-in Pressure 36 PSI Initial Opening 30 Test ✓ 600
 (H) Final Hydrostatic Mud 1469 PSI Initial Shut-in 30 Jars

Final Flow 30 Safety Joint
 Final Shut-in 30 Straddle
 Circ. Sub
 Sampler

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
 Our Representative Ray Schwager Thank you

Extra Packer
 Elect. Rec. ✓ 150
 Other
 TOTAL PRICE \$ ✓ 750

TRILOBITE TESTING L.L.C.

OPERATOR : Maxwell Oper.Co.,Inc.

DATE 12-16-97

WELL NAME: Staudinger #1

KB 1873.00 ft

TICKET NO: 10885

DST #2

LOCATION : 9-16s-12w

GR 1868.00 ft

FORMATION: K.C.

INTERVAL : 3088.00 To 3143.00 ft

TD 3143.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 45 Rec.	3027	10270	10270			PF Fr. 1410 to 1455 hr
SI 45 Range(Psi)	4995.0	4150.0	4150.0	0.0	0.0	IS Fr. 1455 to 1540 hr
SF 45 Clock(hrs)	elec.	12hr.	12 hr			SF Fr. 1540 to 1625 hr
FS 45 Depth(ft)	3120.0	3140.0	3140.0	0.0	0.0	FS Fr. 1625 to 1710 hr

	Field	1	2	3	4	
A. Init Hydro	1566.0	1578.0	1567.0	0.0	0.0	T STARTED 1250 hr
B. First Flow	38.0	114.0	109.0	0.0	0.0	T ON BOTM 1405 hr
B1. Final Flow	98.0	124.0	123.0	0.0	0.0	T OPEN 1410 hr
C. In Shut-in	718.0	738.0	715.0	0.0	0.0	T PULLED 1710 hr
D. Init Flow	102.0	166.0	152.0	0.0	0.0	T OUT 1920 hr
E. Final Flow	144.0	177.0	156.0	0.0	0.0	
F. Fl Shut-in	678.0	624.0	611.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	1527.0	1537.0	1515.0	0.0	0.0	Tool Wt. 2900.00 lbs
Inside/Outside	i	o	o			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 40000.00 lbs
						Initial Str Wt 30000.00 lbs
						Unseated Str Wt 32000.00 lbs
						Bot Choke 0.75 in
						Hole Size 7.78 in
						D Col. ID 2.25 in
						D. Pipe ID 3.80 in
						D.C. Length 30.00 ft
						D.P. Length 3038.00 ft

RECOVERY

Tot Fluid 237.00 ft of 30.00 ft in DC and 207.00 ft in DP
 60.00 ft of Gas in pipe.
 1.00 ft of Clean oil 100%oil.
 112.00 ft of Muddy water 55%water 45% mud
 124.00 ft of Muddy water 75%water 25% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

SALINITY 36000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow: Weak building to good
 blow 1/2" to 6 1/2".

Final Flow: Weak blow throughout.
 1\4" to 3"blow.

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.40 lb/
Vis.	46.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	0.00 F
Hole Condition	good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Ray Schwager
Co. Rep.	Ron Nelson
Contr.	Discovery
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Staudinger #1

LOCATION : 9-16s-12w

TICKET No. 10885 D.S.T. No. 2 DATE 12-16-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS 20

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 55

TOTAL TOOL 75

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY 106

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

D.P. ABOVE TOOLS.Stands49 Single Total 3037

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3173

TOTAL DEPTH 3143

TOTAL DRILL PIPE ABOVE K.B. 30

REMARKS:

P.O. SUB	
C.O. SUB	3068
S.I. TOOL	3073
HMV	3078
JARS	
SAFETY JOINT	
PACKER	3083
PACKER	3088
DEPTH	
STUBB	
ANCHOR	
Alpine rec @3120	
AK-1 rec @3140	
T.C.	
DEPTH	
1'perf	3089
31'jt.drill pipe	3120
5'perf	3125
5' "	3130
5'perf	3135
5' "	3140
1' "	3141
BULLNOSE	
T.D. 2'bullplug	3143

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co., Inc.

DATE: 12/16/97

TIME: 12:53:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	60.50	1567.0	0.0	93.27		
***** Start Flow 1	0.00	38.8	0.0	93.42		
	0.50	42.1	3.3	93.50		
	1.00	45.1	6.4	93.56		
	1.50	49.2	10.4	93.58		
	2.00	51.4	12.6	93.63		
	2.50	52.8	14.0	93.66		
	3.00	54.9	16.1	93.67		
	3.50	56.8	18.1	93.67		
	4.00	58.5	19.7	93.69		
	4.50	59.8	21.0	93.71		
	5.00	62.5	23.7	93.71		
	5.50	63.2	24.5	93.73		
	6.00	61.1	22.3	93.73		
	6.50	63.0	24.2	93.73		
	7.00	62.2	23.5	93.73		
	7.50	68.8	30.0	93.72		
	8.00	68.1	29.3	93.71		
	8.50	65.7	27.0	93.71		
	9.00	66.8	28.1	93.73		
	9.50	63.7	25.0	93.72		
	10.00	64.4	25.6	93.71		
	10.50	65.1	26.3	93.71		
	11.00	65.5	26.8	93.72		
	11.50	65.7	26.9	93.71		
	12.00	66.1	27.4	93.72		
	12.50	66.5	27.7	93.72		
	13.00	67.0	28.2	93.71		
	13.50	67.5	28.8	93.72		
	14.00	68.0	29.2	93.73		
	14.50	68.4	29.6	93.74		
	15.00	68.9	30.1	93.73		
	15.50	69.5	30.7	93.75		
	16.00	70.1	31.3	93.76		
	16.50	70.6	31.9	93.78		
	17.00	71.2	32.4	93.80		
	17.50	71.7	33.0	93.81		
	18.00	72.3	33.5	93.82		
	18.50	72.9	34.1	93.86		
	19.00	73.5	34.7	93.87		
	19.50	74.1	35.3	93.90		
	20.00	74.9	36.1	93.93		
	20.50	75.5	36.8	93.96		
	21.00	76.1	37.4	93.96		
	21.50	76.7	37.9	93.97		
	22.00	77.2	38.5	93.97		
	22.50	77.7	39.0	93.97		
	23.00	78.3	39.5	94.01		
	23.50	78.8	40.0	94.05		
	24.00	79.3	40.6	94.09		
	24.50	79.9	41.1	94.11		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co., Inc.

DATE: 12/16/97

TIME: 12:53:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	25.00	80.4	41.6	94.16		
	25.50	80.9	42.1	94.18		
	26.00	81.3	42.5	94.22		
	26.50	81.7	43.0	94.26		
	27.00	82.3	43.5	94.31		
	27.50	82.8	44.1	94.34		
	28.00	83.3	44.6	94.37		
	28.50	83.8	45.0	94.42		
	29.00	84.3	45.5	94.45		
	29.50	84.8	46.0	94.50		
	30.00	85.3	46.5	94.53		
	30.50	85.8	47.0	94.57		
	31.00	86.3	47.5	94.61		
	31.50	86.7	48.0	94.65		
	32.00	87.2	48.4	94.70		
	32.50	87.7	48.9	94.74		
	33.00	88.3	49.5	94.78		
	33.50	89.0	50.2	94.82		
	34.00	89.5	50.8	94.85		
	34.50	90.0	51.3	94.91		
	35.00	90.5	51.8	94.95		
	35.50	91.0	52.3	94.98		
	36.00	91.4	52.7	95.02		
	36.50	91.9	53.2	95.05		
	37.00	92.5	53.7	95.10		
	37.50	92.9	54.2	95.14		
	38.00	93.4	54.7	95.19		
	38.50	93.9	55.1	95.22		
	39.00	94.4	55.6	95.28		
	39.50	94.8	56.0	95.32		
	40.00	95.4	56.6	95.36		
	40.50	95.8	57.0	95.40		
	41.00	96.2	57.5	95.44		
	41.50	96.7	57.9	95.48		
	42.00	97.2	58.4	95.53		
	42.50	97.6	58.8	95.55		
***** End Flow 1	43.00	98.0	59.2	95.61		
***** Start Shutin 1	0.00	98.0	0.0	95.61	0.0000	0.01
	0.50	98.5	0.5	95.66	87.0000	0.01
	1.00	113.9	15.9	95.71	44.0000	0.013
	1.50	248.5	150.5	95.75	29.6667	0.062
	2.00	332.4	234.4	95.78	22.5000	0.110
	2.50	368.1	270.1	95.84	18.2000	0.135
	3.00	390.8	292.8	95.89	15.3333	0.153
	3.50	408.1	310.1	95.94	13.2857	0.167
	4.00	422.5	324.5	96.01	11.7500	0.178
	4.50	434.8	336.8	96.07	10.5556	0.189
	5.00	445.8	347.8	96.14	9.6000	0.199
	5.50	455.8	357.8	96.21	8.8182	0.208
	6.00	464.8	366.8	96.28	8.1667	0.216
	6.50	473.3	375.3	96.34	7.6154	0.224

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

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DATE: 12/16/97

TIME: 12:53:39

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
7.00	481.1	383.1	96.44	7.1429	0.231
7.50	488.5	390.5	96.45	6.7333	0.239
8.00	495.4	397.4	96.48	6.3750	0.245
8.50	502.0	404.0	96.53	6.0588	0.252
9.00	508.2	410.2	96.60	5.7778	0.258
9.50	514.2	416.2	96.68	5.5263	0.264
10.00	519.9	421.9	96.74	5.3000	0.270
10.50	525.4	427.4	96.79	5.0952	0.276
11.00	530.6	432.6	96.85	4.9091	0.282
11.50	535.7	437.7	96.91	4.7391	0.287
12.00	540.6	442.6	96.97	4.5833	0.292
12.50	545.3	447.3	97.02	4.4400	0.297
13.00	549.9	451.9	97.07	4.3077	0.302
13.50	554.3	456.3	97.11	4.1852	0.307
14.00	558.6	460.6	97.18	4.0714	0.312
14.50	562.7	464.7	97.23	3.9655	0.317
15.00	566.8	468.8	97.29	3.8667	0.321
15.50	570.7	472.7	97.34	3.7742	0.326
16.00	574.5	476.5	97.39	3.6875	0.330
16.50	578.3	480.3	97.44	3.6061	0.334
17.00	582.0	484.0	97.49	3.5294	0.339
17.50	585.5	487.5	97.54	3.4571	0.343
18.00	589.0	491.0	97.59	3.3889	0.347
18.50	592.5	494.5	97.64	3.3243	0.351
19.00	595.7	497.7	97.69	3.2632	0.355
19.50	598.9	500.9	97.72	3.2051	0.359
20.00	602.1	504.1	97.78	3.1500	0.362
20.50	605.2	507.2	97.82	3.0976	0.366
21.00	608.3	510.3	97.87	3.0476	0.370
21.50	611.2	513.2	97.92	3.0000	0.374
22.00	614.1	516.1	97.96	2.9545	0.377
22.50	617.0	519.0	97.99	2.9111	0.381
23.00	619.7	521.7	98.05	2.8696	0.384
23.50	622.5	524.5	98.08	2.8298	0.387
24.00	625.2	527.2	98.13	2.7917	0.391
24.50	627.8	529.8	98.17	2.7551	0.394
25.00	630.4	532.4	98.23	2.7200	0.397
25.50	633.0	535.0	98.25	2.6863	0.401
26.00	635.4	537.5	98.28	2.6538	0.404
26.50	637.9	539.9	98.34	2.6226	0.407
27.00	640.3	542.3	98.37	2.5926	0.410
27.50	642.7	544.7	98.41	2.5636	0.413
28.00	645.0	547.0	98.44	2.5357	0.416
28.50	647.2	549.2	98.47	2.5088	0.419
29.00	649.5	551.5	98.51	2.4828	0.422
29.50	651.7	553.7	98.56	2.4576	0.425
30.00	653.9	555.9	98.60	2.4333	0.428
30.50	656.0	558.0	98.63	2.4098	0.430
31.00	658.1	560.1	98.67	2.3871	0.433
31.50	660.2	562.2	98.70	2.3651	0.436
32.00	662.2	564.2	98.76	2.3438	0.439

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co., Inc.

DATE: 12/16/97

TIME: 12:53:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	32.50	664.3	566.3	99.17	2.3231	0.441
	33.00	666.2	568.2	98.81	2.3030	0.444
	33.50	668.2	570.2	98.46	2.2836	0.446
	34.00	670.1	572.1	98.90	2.2647	0.449
	34.50	672.0	574.0	98.94	2.2464	0.452
	35.00	673.9	575.9	98.97	2.2286	0.454
	35.50	675.7	577.7	98.97	2.2113	0.457
	36.00	677.6	579.6	98.97	2.1944	0.459
	36.50	679.4	581.4	99.03	2.1781	0.462
	37.00	681.2	583.2	99.06	2.1622	0.464
	37.50	682.9	584.9	99.10	2.1467	0.466
	38.00	684.5	586.5	99.15	2.1316	0.469
	38.50	686.2	588.2	99.19	2.1169	0.471
	39.00	687.8	589.8	99.22	2.1026	0.473
	39.50	689.5	591.5	99.26	2.0886	0.475
	40.00	691.1	593.1	99.29	2.0750	0.478
	40.50	692.7	594.7	99.33	2.0617	0.480
	41.00	694.3	596.3	99.36	2.0488	0.482
	41.50	695.9	597.9	99.40	2.0361	0.484
	42.00	697.4	599.4	99.44	2.0238	0.486
	42.50	699.0	601.0	99.47	2.0118	0.489
	43.00	700.5	602.5	99.50	2.0000	0.491
	43.50	701.9	603.9	99.53	1.9885	0.493
	44.00	703.4	605.4	99.57	1.9773	0.495
	44.50	704.8	606.8	99.59	1.9663	0.497
	45.00	706.3	608.3	99.64	1.9556	0.499
	45.50	707.7	609.7	99.65	1.9451	0.501
	46.00	709.1	611.1	99.69	1.9348	0.503
	46.50	710.5	612.5	99.72	1.9247	0.505
	47.00	711.9	613.9	99.74	1.9149	0.507
	47.50	713.3	615.3	99.80	1.9053	0.509
	48.00	714.6	616.6	99.80	1.8958	0.511
	48.50	715.9	617.9	99.83	1.8866	0.513
	49.00	717.3	619.3	99.85	1.8776	0.514
***** End Shut-in 1	49.50	718.5	620.5	99.89	1.8687	0.516
***** Start Flow 2	0.00	102.0	0.0	99.97		
	0.50	102.3	0.2	99.98		
	1.00	103.1	1.0	99.93		
	1.50	109.9	7.9	99.85		
	2.00	114.9	12.8	99.75		
	2.50	115.7	13.6	99.61		
	3.00	117.9	15.9	99.50		
	3.50	117.7	15.7	99.39		
	4.00	118.1	16.1	99.28		
	4.50	114.6	12.6	99.18		
	5.00	111.6	9.5	99.10		
	5.50	112.0	10	98.99		
	6.00	112.4	10.4	98.97		
	6.50	118.3	16.3	98.97		
	7.00	116.8	14.8	98.89		
	7.50	118.3	16.3	98.87		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co., Inc.

DATE: 12/16/97

TIME: 12:53:39

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
8.00	119.6	17.6	98.83		
8.50	120.2	18.1	98.83		
9.00	119.8	17.7	98.82		
9.50	121.7	19.7	98.81		
10.00	121.4	19.3	98.83		
10.50	125.0	22.9	98.84		
11.00	125.0	22.9	98.87		
11.50	124.2	22.2	98.88		
12.00	124.3	22.2	98.94		
12.50	128.4	26.4	98.96		
13.00	129.2	27.1	98.97		
13.50	128.3	26.3	98.97		
14.00	126.2	24.2	98.97		
14.50	121.6	19.6	99.04		
15.00	121.7	19.7	99.10		
15.50	122.1	20.0	99.13		
16.00	122.4	20.4	99.20		
16.50	122.8	20.7	99.24		
17.00	123.1	21.0	99.29		
17.50	123.5	21.5	99.32		
18.00	124.1	22.1	99.37		
18.50	124.6	22.5	99.42		
19.00	125.0	23.0	99.47		
19.50	125.5	23.5	99.53		
20.00	125.9	23.9	99.58		
20.50	126.4	24.4	99.62		
21.00	126.8	24.8	99.65		
21.50	127.3	25.3	99.72		
22.00	127.7	25.7	99.77		
22.50	128.2	26.1	99.81		
23.00	128.6	26.6	99.86		
23.50	129.0	27.0	99.91		
24.00	129.4	27.4	99.96		
24.50	129.9	27.8	100.01		
25.00	130.3	28.3	100.06		
25.50	130.8	28.7	100.10		
26.00	131.2	29.2	100.15		
26.50	131.6	29.6	100.20		
27.00	132.0	30.0	100.26		
27.50	132.5	30.5	100.30		
28.00	133.1	31.0	100.35		
28.50	133.6	31.6	100.40		
29.00	134.0	32.0	100.44		
29.50	134.5	32.4	100.48		
30.00	134.9	32.8	100.53		
30.50	135.3	33.3	100.58		
31.00	135.7	33.7	100.61		
31.50	136.1	34.1	100.67		
32.00	136.5	34.5	100.70		
32.50	136.9	34.8	100.75		
33.00	137.3	35.2	100.79		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co., Inc.

DATE: 12/16/97

TIME: 12:53:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	33.50	137.7	35.6	100.84		
	34.00	138.1	36.0	100.87		
	34.50	138.5	36.4	100.91		
	35.00	138.9	36.8	100.95		
	35.50	139.2	37.2	100.99		
	36.00	139.6	37.6	101.03		
	36.50	140.0	38.0	101.08		
	37.00	140.4	38.3	101.11		
	37.50	140.8	38.7	101.15		
	38.00	141.1	39.1	101.17		
	38.50	141.5	39.5	101.22		
	39.00	141.9	39.9	101.25		
	39.50	142.3	40.2	101.29		
	40.00	142.6	40.6	101.34		
	40.50	143.0	41.0	101.39		
	41.00	143.4	41.3	101.43		
	41.50	143.8	41.7	101.46		
	42.00	144.1	42.1	101.46		
***** End Flow 2	42.50	144.5	42.5	101.47		
***** Start Shutin 2	0.00	144.5	0.0	101.47	0.0000	0.021
	0.50	219.8	75.2	101.47	172.0000	0.048
	1.00	325.2	180.7	101.51	86.5000	0.106
	1.50	360.4	215.9	101.56	58.0000	0.130
	2.00	381.3	236.8	101.60	43.7500	0.145
	2.50	397.1	252.5	101.64	35.2000	0.158
	3.00	410.0	265.5	101.68	29.5000	0.168
	3.50	421.1	276.6	101.74	25.4286	0.177
	4.00	431.0	286.4	101.77	22.3750	0.186
	4.50	439.8	295.3	101.82	20.0000	0.193
	5.00	447.9	303.4	101.87	18.1000	0.201
	5.50	455.4	310.9	101.92	16.5455	0.207
	6.00	462.4	317.9	101.96	15.2500	0.214
	6.50	469.0	324.5	102.00	14.1538	0.220
	7.00	475.2	330.7	102.04	13.2143	0.226
	7.50	481.1	336.6	102.09	12.4000	0.231
	8.00	486.7	342.2	102.12	11.6875	0.237
	8.50	492.1	347.6	102.17	11.0588	0.242
	9.00	497.2	352.7	102.22	10.5000	0.247
	9.50	502.1	357.6	102.24	10.0000	0.252
	10.00	506.9	362.4	102.29	9.5500	0.257
	10.50	511.5	367.0	102.32	9.1429	0.262
	11.00	515.9	371.4	102.36	8.7727	0.266
	11.50	520.2	375.7	102.40	8.4348	0.271
	12.00	524.4	379.9	102.43	8.1250	0.275
	12.50	528.4	383.9	102.47	7.8400	0.279
	13.00	532.4	387.8	102.51	7.5769	0.283
	13.50	536.2	391.7	102.54	7.3333	0.287
	14.00	539.9	395.4	102.57	7.1071	0.291
	14.50	543.5	399.0	102.61	6.8966	0.295
	15.00	547.0	402.5	102.63	6.7000	0.299
	15.50	550.5	405.9	102.67	6.5161	0.303

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co., Inc.

DATE: 12/16/97

TIME: 12:53:39

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
16.00	553.8	409.3	102.71	6.3438	0.307
16.50	557.1	412.6	102.73	6.1818	0.310
17.00	560.3	415.8	102.77	6.0294	0.314
17.50	563.5	418.9	102.81	5.8857	0.317
18.00	566.5	422.0	102.83	5.7500	0.321
18.50	569.5	425.0	102.87	5.6216	0.324
19.00	572.5	428.0	102.90	5.5000	0.328
19.50	575.4	430.8	102.93	5.3846	0.331
20.00	578.2	433.7	102.95	5.2750	0.334
20.50	580.9	436.4	102.98	5.1707	0.337
21.00	583.7	439.2	103.02	5.0714	0.341
21.50	586.4	441.8	103.05	4.9767	0.344
22.00	589.0	444.5	103.09	4.8864	0.347
22.50	591.6	447.0	103.12	4.8000	0.350
23.00	594.1	449.6	103.12	4.7174	0.353
23.50	596.6	452.0	103.13	4.6383	0.356
24.00	599.0	454.5	103.18	4.5625	0.359
24.50	601.4	456.9	103.19	4.4898	0.362
25.00	603.8	459.3	103.23	4.4200	0.365
25.50	606.1	461.6	103.26	4.3529	0.367
26.00	608.4	463.9	103.29	4.2885	0.370
26.50	610.7	466.2	103.32	4.2264	0.373
27.00	612.9	468.4	103.35	4.1667	0.376
27.50	615.1	470.6	103.36	4.1091	0.378
28.00	617.2	472.7	103.38	4.0536	0.381
28.50	619.3	474.8	103.42	4.0000	0.384
29.00	621.4	476.9	103.44	3.9483	0.386
29.50	623.5	478.9	103.46	3.8983	0.389
30.00	625.5	481.0	103.50	3.8500	0.391
30.50	627.5	483.0	103.51	3.8033	0.394
31.00	629.5	485.0	103.54	3.7581	0.396
31.50	631.4	486.9	103.56	3.7143	0.399
32.00	633.3	488.8	103.61	3.6719	0.401
32.50	635.2	490.7	103.63	3.6308	0.403
33.00	637.1	492.6	103.65	3.5909	0.406
33.50	639.0	494.4	103.87	3.5522	0.408
34.00	640.7	496.2	103.54	3.5147	0.411
34.50	642.4	497.9	103.23	3.4783	0.413
35.00	644.3	499.7	103.74	3.4429	0.415
35.50	646.0	501.5	103.77	3.4085	0.417
36.00	647.7	503.2	103.81	3.3750	0.420
36.50	649.4	504.9	103.83	3.3425	0.422
37.00	651.1	506.6	103.85	3.3108	0.424
37.50	652.7	508.2	103.89	3.2800	0.426
38.00	654.4	509.9	103.91	3.2500	0.428
38.50	656.0	511.5	103.94	3.2208	0.430
39.00	657.6	513.1	103.94	3.1923	0.432
39.50	659.2	514.7	103.96	3.1646	0.435
40.00	660.7	516.2	103.96	3.1375	0.437
40.50	662.3	517.7	103.96	3.1111	0.439
41.00	663.8	519.3	103.98	3.0854	0.441

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co.,Inc.

DATE: 12/16/97

TIME: 12:53:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P^2/10^6
	41.50	665.3	520.8	104.01	3.0602	0.443
	42.00	666.8	522.3	104.03	3.0357	0.445
	42.50	668.3	523.7	104.05	3.0118	0.447
	43.00	669.7	525.2	104.09	2.9884	0.448
	43.50	671.1	526.6	104.10	2.9655	0.450
	44.00	672.5	528.0	104.13	2.9432	0.452
	44.50	674.0	529.4	104.15	2.9213	0.454
	45.00	675.3	530.8	104.18	2.9000	0.456
	45.50	676.7	532.2	104.20	2.8791	0.458
	46.00	678.1	533.5	104.22	2.8587	0.460
	46.50	679.4	534.9	104.23	2.8387	0.462
	47.00	680.7	536.2	104.26	2.8191	0.463
	47.50	682.1	537.5	104.29	2.8000	0.465
***** End Shut-in 2	48.00	678.7	534.2	104.29	2.7812	0.461
***** Final Hydro.	249.50	1527.4	0.0	105.97		

TEST HISTORY

Tkt#10885 DST#2 Staudinger #1 Maxwell Oper.Co., Inc.

Flag Points
t(Min.) P(PSig)

A:	0.00	1566.96
B:	0.00	38.76
C:	43.00	98.00
D:	49.50	718.48
E:	0.00	102.04
F:	42.50	144.52
G:	48.00	678.69
H:	0.00	1527.38

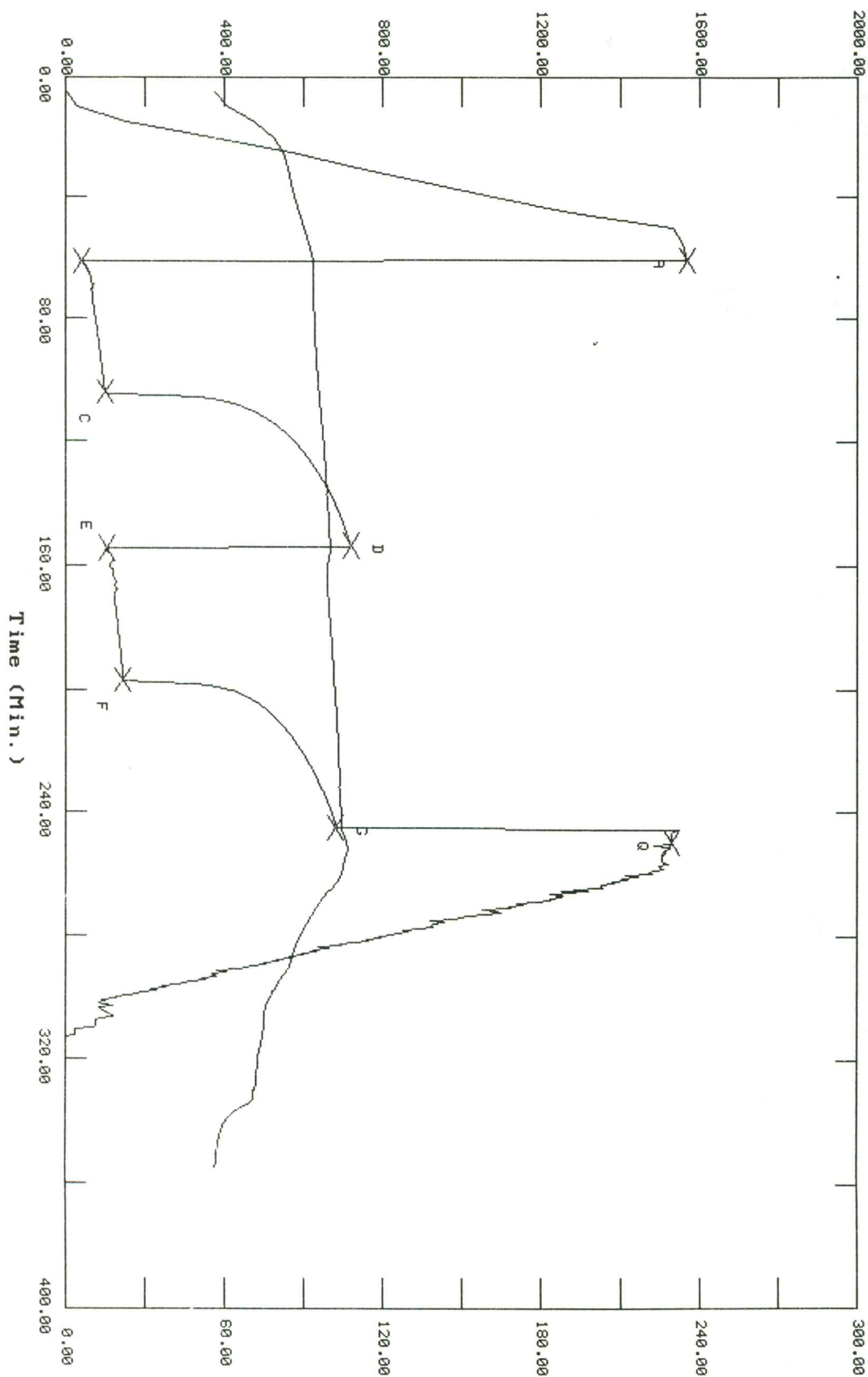
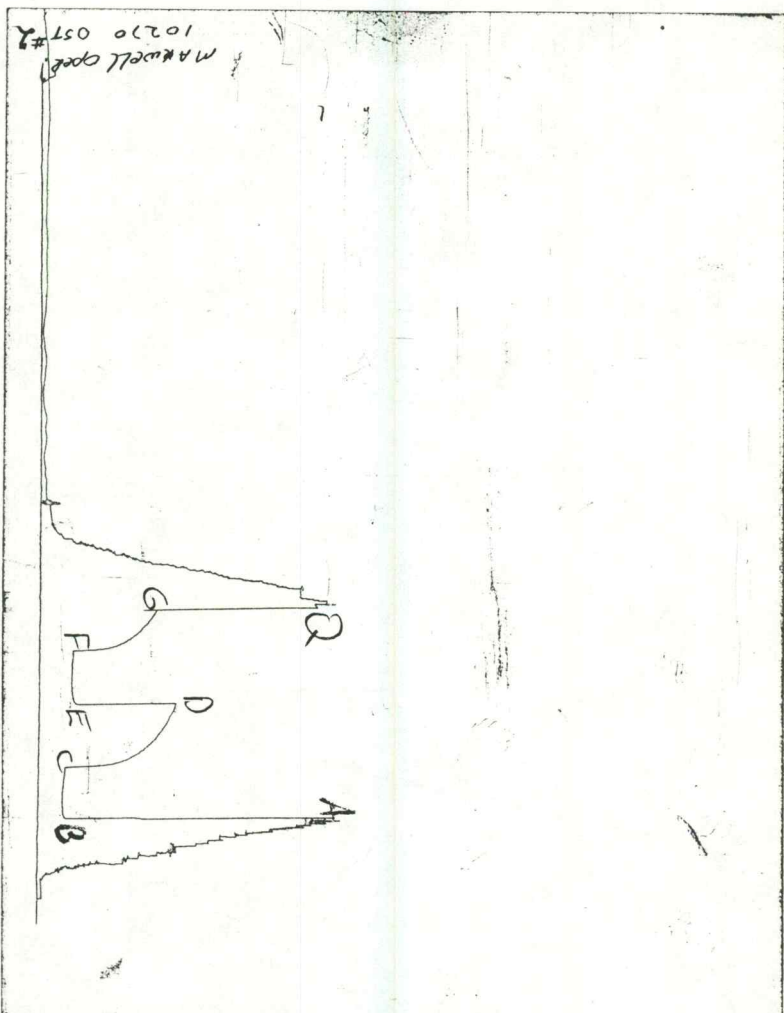


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10885

Well Name & No.	<u>STANDINGER #1</u>	Test No.	<u>2</u>	Date	<u>12-16-97</u>
Company	<u>MAXWELL OPERATING Co., Inc.</u>	Zone Tested	<u>K. C.</u>		
Address	<u>P.O. Box 1213 HAYS, KS 67601</u>	Elevation	<u>1873</u>	KB	<u>1868</u> GL
Co. Rep / Geo.	<u>Ron Nelson</u>	Cont.	<u>Discovery Drllg</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>9</u>	Twp.	<u>16^s</u>	Rge.	<u>12th</u> Co. <u>BARTON</u> State <u>Ks</u>
No. of Copies	<u>Reg</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u>N</u>

Interval Tested	<u>3088-3143</u>	Initial Str Wt./Lbs.	<u>30000</u>	Unseated Str Wt./Lbs.	<u>32000</u>
Anchor Length	<u>55</u>	Wt. Set Lbs.	<u>20000</u>	Wt. Pulled Loose/Lbs.	<u>40000</u>
Top Packer Depth	<u>3083</u>	Tool Weight	<u>2900</u>		
Bottom Packer Depth	<u>3088</u>	Hole Size — 7 7/8" <u>4</u>	Rubber Size — 6 3/4" <u>4</u>		
Total Depth	<u>3143</u>	Wt. Pipe Run	<u> </u>	Drill Collar Run	<u>30</u>
Mud Wt. <u>9.4</u> LCM <u>-</u> Vis. <u>46</u> WL <u>8.8</u>		Drill Pipe Size	<u>4 1/2 X H</u>	Ft. Run	<u>3038</u>
Blow Description	<u>IFP - WEAK building To A Good Blow 1/2" To 6 1/2" Blow</u> <u>FFP - WEAK Blow Throughout 1/4" To 3" Blow</u>				

Recovery — Total Feet	<u>238</u>	GIP	<u>60</u>	Ft. in DC	<u>30</u>	Ft. in DP	<u>208</u>
Rec. <u>1</u>	Feet Of	<u>CLEAN OIL</u>	%gas	%oil	%water	%mud	
Rec. <u>112</u>	Feet Of	<u>Muddy WATER</u>	%gas	%oil	<u>55</u>	%water	<u>45</u> %mud
Rec. <u>124</u>	Feet Of	<u>Muddy WATER</u>	%gas	%oil	<u>75</u>	%water	<u>25</u> %mud
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud	
Rec. <u> </u>	Feet Of	<u> </u>	%gas	%oil	%water	%mud	
BHT <u>106°</u>	°F Gravity	<u>-</u>	°API D@	<u>-</u>	°F Corrected Gravity	<u>-</u>	°API
RW <u>-</u>	@ <u>-</u>	°F Chlorides	<u>36000</u>	ppm Recovery	Chlorides	<u>4000</u>	ppm System
(A) Initial Hydrostatic Mud	<u>1566</u>	PSI	Recorder No.	<u>3027</u>	T-Started	<u>12:55 pm</u>	
(B) First Initial Flow Pressure	<u>38</u>	PSI	(depth)	<u>3120</u>	T-Open	<u>2:00 pm</u>	
(C) First Final Flow Pressure	<u>98</u>	PSI	Recorder No.	<u>10270</u>	T-Pulled	<u>5:00 pm</u>	
(D) Initial Shut-in Pressure	<u>718</u>	PSI	(depth)	<u>3140</u>	T-Out	<u>7:20 pm</u>	
(E) Second Initial Flow Pressure	<u>102</u>	PSI	Recorder No.	<u>-</u>			
(F) Second Final Flow Pressure	<u>144</u>	PSI	(depth)	<u>-</u>			
(G) Final Shut-in Pressure	<u>678</u>	PSI	Initial Opening	<u>45</u>	Test	<u>✓</u>	<u>600</u>
(H) Final Hydrostatic Mud	<u>1527</u>	PSI	Initial Shut-in	<u>45</u>	Jars	<u> </u>	
			Final Flow	<u>45</u>	Safety Joint	<u> </u>	
			Final Shut-in	<u>45</u>	Straddle	<u> </u>	

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
Our Representative Ray Schwager Thank you

Extra Packer
Elect. Recd ✓ 150
Other
TOTAL PRICE ✓ 750