

Denne rapport
tilhører

STATOIL

L&U DOK. SENTER

L. NR. 200 88390063

KODE Well 31/2-2

nr 35

Returneres etter bruk

sperry-

tal, inc.

PRESSURE SURVEY REPORT

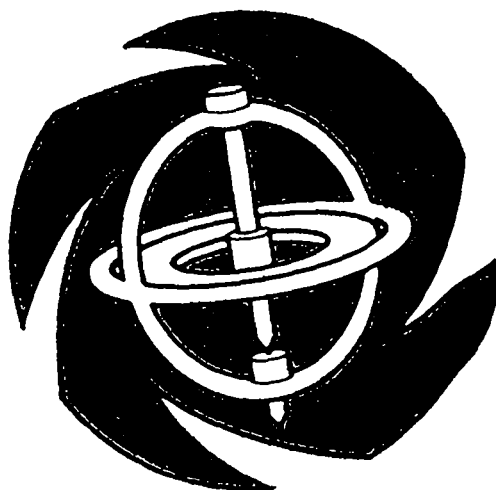
for

NORSKE SHELL A/S

WELL NO. 31/2-2

DATE: 1 SEPTEMBER 1980

TEST NO. 3, RUN no.1



(A Sperry-Sun Company)

Precision Instruments / Professional Service



PRESSURE TEST DATA SUMMARY

COMPANY: NORSKE SHELL DATE: 1 SEPTEMBER, 1980

FIELD: WILDCAT WELL NO: 31/2-2 JOB NO: MRPG-668-NOR

TEST TYPE: FLOW/BUILD UPTTEST NO: 3 RUN NO: 1 MAX B.H.T. 156 °F

PERFORATION INTERVAL: 1570 - 1575 M ; 1586.5 - 1588.5 M. ZONE: SAND GAS.
MISCASEOUS

	TOP	MIDDLE	BOTTOM
GAUGE TYPE/NO.	MRPG NO. 0016		
PRESSURE SENSING DEPTH	1572.8 M		
ELEMENT SIZE	4000 PSI		
TIME MODE	2 MIN.		
BATTERY TYPE	ALKALINE		

EVENT	SURFACE TIMES & DATES		TEMP.	°F
GAUGE SEATED IN NIPPLE	18.05	1.9.80	153	
OPEN WELL ON 16/64" CHOKE	19.52	"	153	
CHOKE CHANGE TO 30/64"	20.07	"	153	
CHOKE CHANGE TO 14/64" AND FLOW TO TANK	20.12	"	153	
FLOW WELL TO BURNER	20.17	"	153	
CHOKE CHANGE TO 16/64"	20.19	"	154	
CHOKE CHANGE TO 20/64"	21.45	"	155	
CHOKE CHANGE TO 28/64"	21.52	"	155	
CHOKE CHANGE TO 32/64"	22.25	"	155	
CHOKE CHANGE TO 36/64"	22.54	"	154	
CHOKE CHANGE TO 35/64"	01.36	2.9.80	156	
CHOKE CHANGE TO 32/64"	03.20	"	155	
CHOKE CHANGE TO 34/64"	06.02	"	156	
CHOKE CHANGE TO 50/64"	06.05	"	153	
CHOKE CHANGE TO 48/64"	07.15	"	155	
CHOKE CHANGE TO 120/64"	12.20	"	-	
CHOKE CHANGE TO 128/64"	12.22	"	-	
CHOKE CHANGE TO 64/64"	12.42	"	151	
GAUGE CEASED TO FUNCTION DUE TO VIBRATION FROM HIGH FLOW RATE	13.52	"		

M.R.P.G. PRESSURES ARE RELATIVE TO GAUGE CLOCK TIMES.

S.P.G. PRESSURES ARE RELATIVE TO TIME GRADIENT CALCULATED FROM SURFACE TIMES.

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MISCASEOUS SAND, PRESSURE TEST 3, RUN 1, GAUGE 0016, SENSING DEPTH AT 1572.8 M

DELTA TIME	PRESSURE	TIME	DATE
0.000	2269.779	18: 6	1- 9-80 GAUGE SEATED IN NIPPLE
0.033	2269.585	18: 8	AT 18:05.
0.067	2270.747	18:10	
0.100	2270.554	18:12	
0.133	2270.747	18:14	
0.167	2270.941	18:16	
0.200	2270.941	18:18	
0.233	2271.135	18:20	
0.267	2264.357	18:22	
0.300	2268.230	18:24	
0.333	2268.617	18:26	
0.367	2269.198	18:28	
0.400	2269.585	18:30	
0.433	2274.427	18:32	
0.467	2268.424	18:34	
0.500	2270.747	18:36	
0.533	2274.427	18:38	
0.567	2271.909	18:40	
0.600	2274.039	18:42	
0.633	2271.716	18:44	
0.667	2270.554	18:46	
0.700	2270.747	18:48	
0.733	2276.750	18:50	
0.767	2456.649	18:52	
0.800	2444.837	18:54	
0.833	2441.158	18:56	
0.867	2441.158	18:58	
0.900	2444.062	19: 0	
0.933	2443.869	19: 2	
0.967	2443.481	19: 4	
1.000	2443.481	19: 6	
1.033	2443.675	19: 8	
1.067	2443.288	19:10	
1.100	2444.643	19:12	
1.133	2446.386	19:14	
1.167	2451.615	19:16	
1.200	2452.389	19:18	
1.233	2457.230	19:20	
1.267	2457.811	19:22	
1.300	2459.360	19:24	
1.333	2459.748	19:26	
1.367	2460.135	19:28	
1.400	2453.938	19:30	
1.433	2442.513	19:32	
1.467	2439.608	19:34	
1.500	2427.602	19:36	

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DELTA TIME	PRESSURE	TIME	DATE
1.533	2417.145	19:38	1- 9-80
1.567	2409.593	19:40	
1.600	2402.622	19:42	
1.633	2393.907	19:44	
1.667	2384.806	19:46	
1.700	2370.089	19:48	
1.733	2362.924	19:50	
1.767	2360.213	19:52	
1.800	2358.470	19:54	OPEN WELL AT 19:52

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DELTA TIME	PRESSURE	TIME	DATE
0.000	2358.470	19:54	1- 9-80 OPEN WELL AT 19:52
0.033	2274.620	19:56	ON 16/64" CHOKE.
0.067	2230.856	19:58	
0.100	2214.396	20: 0	
0.133	2215.558	20: 2	
0.167	2214.977	20: 4	
0.200	2215.558	20: 6	
0.233	2215.558	20: 8	CHOKE CHANGE TO 30/64"
0.267	2188.060	20:10	AT 20:07.
0.300	2194.837	20:12	CHOKE CHANGE TO 14/64"
0.333	2197.161	20:14	AND FLOW TO TANK AT 20:12.
0.367	2241.119	20:16	FLOW TO BURNER AT 20:17.
0.400	2243.443	20:18	CHOKE CHANGE TO 16/64 AT 20:19
0.433	2243.637	20:20	
0.467	2239.183	20:22	
0.500	2231.049	20:24	
0.533	2229.694	20:26	
0.567	2227.951	20:28	
0.600	2226.015	20:30	
0.633	2225.434	20:32	
0.667	2224.659	20:34	
0.700	2223.497	20:36	
0.733	2222.529	20:38	
0.767	2221.367	20:40	
0.800	2220.592	20:42	
0.833	2219.624	20:44	
0.867	2218.850	20:46	
0.900	2217.688	20:48	
0.933	2216.913	20:50	
0.967	2216.332	20:52	
1.000	2215.364	20:54	
1.033	2215.558	20:56	
1.067	2215.170	20:58	
1.100	2214.396	21: 0	
1.133	2214.783	21: 2	
1.167	2213.234	21: 4	
1.200	2211.878	21: 6	
1.233	2211.491	21: 8	
1.267	2210.523	21:10	
1.300	2209.555	21:12	
1.333	2207.037	21:14	
1.367	2206.456	21:16	
1.400	2207.037	21:18	
1.433	2210.135	21:20	
1.467	2217.688	21:22	
1.500	2221.754	21:24	

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DELTA TIME	PRESSURE	TIME	DATE
1.533	2219.818	21:26	1- 9-80
1.567	2220.205	21:28	
1.600	2222.142	21:30	
1.633	2229.307	21:32	
1.667	2232.599	21:34	
1.700	2232.599	21:36	
1.733	2235.891	21:38	
1.767	2240.538	21:40	
1.800	2242.281	21:42	
1.833	2256.224	21:44	CHOKER CHANGE TO 28/64 AT 20:45
1.867	2237.440	21:46	
1.900	2234.729	21:48	
1.933	2240.345	21:50	
1.967	2215.751	21:52	CHOKER CHANGE TO 28/64 AT 21:52
2.000	2201.615	21:54	
2.033	2196.193	21:56	
2.067	2188.834	21:58	
2.100	2182.637	22: 0	
2.133	2194.450	22: 2	
2.167	2204.713	22: 4	
2.200	2225.046	22: 6	
2.233	2232.599	22: 8	
2.267	2228.919	22:10	
2.300	2230.856	22:12	
2.333	2245.767	22:14	
2.367	2249.252	22:16	
2.400	2250.027	22:18	
2.433	2251.770	22:20	
2.467	2252.157	22:22	
2.500	2253.125	22:24	CHOKER CHANGE TO 32/64 AT 22:25
2.533	2254.481	22:26	
2.567	2238.989	22:28	
2.600	2242.475	22:30	
2.633	2246.348	22:32	
2.667	2247.703	22:34	
2.700	2248.090	22:36	
2.733	2191.545	22:38	
2.767	2157.657	22:40	
2.800	2172.955	22:42	
2.833	2122.413	22:44	
2.867	2059.865	22:46	
2.900	2100.143	22:48	
2.933	2209.167	22:50	
2.967	2248.671	22:52	CHOKER CHANGE TO 36/64 AT 22:54
3.000	2252.544	22:54	
3.033	2213.621	22:56	
3.067	2129.191	22:58	

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DELTA TIME	PRESSURE	TIME	DATE
3.100	2106.146	23: 0	1- 9-80
3.133	2063.738	23: 2	
3.167	2057.347	23: 4	
3.200	2044.373	23: 6	
3.233	2107.308	23: 8	
3.267	2097.045	23:10	
3.300	2092.204	23:12	
3.333	2090.848	23:14	
3.367	2094.915	23:16	
3.400	2094.334	23:18	
3.433	2093.366	23:20	
3.467	2099.175	23:22	
3.500	2096.270	23:24	
3.533	2095.883	23:26	
3.567	2094.528	23:28	
3.600	2095.302	23:30	
3.633	2096.658	23:32	
3.667	2095.883	23:34	
3.700	2096.270	23:36	
3.733	2095.883	23:38	
3.767	2096.077	23:40	
3.800	2094.140	23:42	
3.833	2093.172	23:44	
3.867	2094.721	23:46	
3.900	2090.074	23:48	
3.933	2089.105	23:50	
3.967	2090.461	23:52	
4.000	2087.169	23:54	
4.033	2091.817	23:56	
4.067	2091.429	23:58	
4.100	2092.978	0: 0	2- 9-80
4.133	2094.140	0: 2	
4.167	2096.077	0: 4	
4.200	2096.270	0: 6	
4.233	2097.820	0: 8	
4.267	2097.045	0:10	
4.300	2099.756	0:12	
4.333	2100.531	0:14	
4.367	2102.274	0:16	
4.400	2103.823	0:18	
4.433	2104.985	0:20	
4.467	2107.502	0:22	
4.500	2107.696	0:24	
4.533	2108.664	0:26	
4.567	2107.696	0:28	
4.600	2109.438	0:30	
4.633	2109.826	0:32	

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DELTA TIME	PRESSURE	TIME	DATE
4.667	2111.375	0:34	2- 9-80
4.700	2110.794	0:36	
4.733	2110.407	0:38	
4.767	2111.375	0:40	
4.800	2112.150	0:42	
4.833	2111.569	0:44	
4.867	2111.762	0:46	
4.900	2109.438	0:48	
4.933	2108.858	0:50	
4.967	2110.407	0:52	
5.000	2107.115	0:54	
5.033	2110.988	0:56	
5.067	2108.664	0:58	
5.100	2109.632	1: 0	
5.133	2111.181	1: 2	
5.167	2110.407	1: 4	
5.200	2110.019	1: 6	
5.233	2114.569	1: 8	
5.267	2122.413	1:10	
5.300	2127.254	1:12	
5.333	2128.997	1:14	
5.367	2129.578	1:16	
5.400	2128.416	1:18	
5.433	2130.352	1:20	
5.467	2132.870	1:22	
5.500	2130.159	1:24	
5.533	2130.546	1:26	
5.567	2131.708	1:28	
5.600	2131.902	1:30	
5.633	2133.451	1:32	
5.667	2136.549	1:34	
5.700	2131.902	1:36	
5.733	2139.067	1:38	
5.767	2152.041	1:40	
5.800	2157.270	1:42	
5.833	2160.755	1:44	
5.867	2162.885	1:46	
5.900	2165.403	1:48	
5.933	2152.235	1:50	
5.967	2149.911	1:52	
6.000	2156.495	1:54	
6.033	2159.206	1:56	
6.067	2167.727	1:58	
6.100	2172.761	2: 0	
6.133	2175.860	2: 2	
6.167	2176.053	2: 4	
6.200	2169.276	2: 6	

CHOKER CHANGE TO 35/64 AT 01:36

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DELTA TIME	PRESSURE	TIME	DATE
6.233	2170.244	2: 8	2- 9-80
6.267	2171.019	2:10	
6.300	2177.215	2:12	
6.333	2177.022	2:14	
6.367	2170.244	2:16	
6.400	2180.895	2:18	
6.433	2182.831	2:20	
6.467	2178.377	2:22	
6.500	2176.441	2:24	
6.533	2175.860	2:26	
6.567	2186.123	2:28	
6.600	2177.022	2:30	
6.633	2178.958	2:32	
6.667	2195.999	2:34	
6.700	2188.447	2:36	
6.733	2173.536	2:38	
6.767	2161.530	2:40	
6.800	2165.790	2:42	
6.833	2180.507	2:44	
6.867	2167.920	2:46	
6.900	2164.628	2:48	
6.933	2170.438	2:50	
6.967	2174.504	2:52	
7.000	2177.603	2:54	
7.033	2172.955	2:56	
7.067	2163.854	2:58	
7.133	2165.790	3: 2	
7.167	2159.981	3: 4	
7.200	2165.984	3: 6	
7.233	2174.504	3: 8	
7.267	2167.533	3:10	
7.300	2167.533	3:12	
7.333	2153.009	3:14	
7.367	2116.797	3:16	
7.400	2110.794	3:18	
7.433	2109.632	3:20	
7.467	2122.994	3:22	
7.500	2149.524	3:24	
7.533	2156.495	3:26	
7.567	2154.752	3:28	
7.600	2147.006	3:30	
7.633	2144.101	3:32	
7.667	2149.911	3:34	
7.700	2159.012	3:36	
7.733	2163.273	3:38	
7.767	2153.590	3:40	
7.800	2165.209	3:42	

CHOKER CHANGE TO 32/64 AT 03:20

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DELTA TIME	PRESSURE	TIME	DATE
7.833	2163.660	3:44	2-9-80
7.867	2163.079	3:46	
7.900	2163.079	3:48	
7.933	2154.558	3:50	
7.967	2143.521	3:52	
8.000	2150.298	3:54	
8.033	2159.787	3:56	
8.067	2170.438	3:58	
8.100	2155.333	4:0	
8.133	2160.368	4:2	
8.167	2145.651	4:4	
8.200	2151.266	4:6	
8.233	2142.746	4:8	
8.267	2140.035	4:10	
8.300	2141.003	4:12	
8.333	2152.041	4:14	
8.367	2153.397	4:16	
8.400	2153.686	4:18	
8.433	2161.917	4:20	
8.467	2159.012	4:22	
8.500	2156.882	4:24	
8.533	2152.816	4:26	
8.567	2158.431	4:28	
8.600	2165.984	4:30	
8.633	2170.825	4:32	
8.667	2168.114	4:34	
8.700	2163.854	4:36	
8.733	2162.692	4:38	
8.767	2173.923	4:40	
8.800	2163.466	4:42	
8.833	2168.307	4:44	
8.867	2180.314	4:46	
8.900	2165.596	4:48	
8.933	2174.892	4:50	
8.967	2191.158	4:52	
9.000	2162.111	4:54	
9.033	2170.825	4:56	
9.067	2179.926	4:58	
9.100	2181.476	5:0	
9.133	2168.114	5:2	
9.167	2164.435	5:4	
9.200	2151.654	5:6	
9.233	2156.108	5:8	
9.267	2160.562	5:10	
9.300	2166.177	5:12	
9.333	2179.152	5:14	
9.367	2171.212	5:16	

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DELTA TIME	PRESSURE	TIME	DATE
9.400	2157.076	5:18	2- 9-80
9.433	2169.663	5:20	
9.467	2175.860	5:22	
9.500	2181.669	5:24	
9.533	2166.177	5:26	
9.567	2158.625	5:28	
9.600	2163.273	5:30	
9.633	2168.114	5:32	
9.667	2176.828	5:34	
9.700	2171.987	5:36	
9.733	2179.152	5:38	
9.767	2184.961	5:40	
9.800	2174.311	5:42	
9.833	2181.863	5:44	
9.867	2187.479	5:46	
9.900	2167.920	5:48	
9.933	2171.987	5:50	
9.967	2176.053	5:52	
10.000	2174.117	5:54	
10.033	2177.603	5:56	
10.067	2174.892	5:58	
10.100	2170.825	6: 0	CHOKE CHANGE TO 34/64 AT 06:02
10.133	2166.952	6: 2	
10.167	2160.562	6: 4	CHOKE CHANGE TO 50/64 AT 06:05
10.200	2149.524	6: 6	
10.233	2146.619	6: 8	
10.267	2127.254	6:10	
10.300	2079.036	6:12	
10.333	2050.375	6:14	
10.367	2054.830	6:16	
10.400	1999.253	6:18	
10.433	1994.605	6:20	
10.467	1982.599	6:22	
10.500	1983.180	6:24	
10.567	1981.631	6:28	
10.600	1976.209	6:30	
10.633	1970.980	6:32	
10.667	1968.656	6:34	
10.700	1965.558	6:36	
10.733	1972.723	6:38	
10.767	1974.853	6:40	
10.800	2015.519	6:42	
10.833	2015.326	6:44	
10.867	2021.135	6:46	
10.933	2029.075	6:50	
10.967	2036.046	6:52	
11.000	2035.078	6:54	

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MISCASEOUS SAND, PRESSURE TEST 3, RUN 1, GAUGE 0016, SENSING DEPTH 1572.8 M

DELTA TIME	PRESSURE	TIME	DATE
11.033	2040.306	6:56	2- 9-80
11.067	2039.144	6:58	
11.100	2041.468	7: 0	
11.133	2041.468	7: 2	
11.333	2062.188	7:14	
11.667	2089.105	7:34	
11.700	2092.591	7:36	
11.733	2083.683	7:38	
11.800	2092.010	7:42	
11.833	2093.172	7:44	
11.867	2088.912	7:46	
11.900	2088.137	7:48	
11.933	2088.137	7:50	
12.033	2091.042	7:56	
12.067	2091.236	7:58	
12.133	2088.718	8: 2	
12.200	2069.934	8: 6	
12.233	2061.166	8: 8	
12.333	2089.525	8:14	
12.400	2216.139	8:18	
12.433	2093.947	8:20	
12.467	2095.109	8:22	
12.500	2094.140	8:24	
12.533	2095.689	8:26	
12.567	2095.689	8:28	
12.600	2098.207	8:30	
12.633	2099.175	8:32	
12.667	2099.175	8:34	
12.700	2096.270	8:36	
12.800	2085.232	8:42	
12.867	2085.426	8:46	
12.900	2090.461	8:48	
12.933	2087.944	8:50	
12.967	2093.559	8:52	
13.000	2086.975	8:54	
13.067	2089.299	8:58	
13.100	2092.591	9: 0	
13.133	2092.785	9: 2	
13.167	2092.591	9: 4	
13.200	2093.172	9: 6	
13.267	2095.496	9:10	
13.300	2095.689	9:12	
13.333	2098.788	9:14	
13.367	2094.915	9:16	
13.400	2094.528	9:18	
13.433	2095.109	9:20	
13.533	2095.496	9:26	

CHOKE CHANGE TO 48/64 AT 07:15

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OFFSHORE NORWAY
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MISCASEOUS SAND, PRESSURE TEST 3, RUN 1, GAUGE 0016, SENSING DEPTH 1572.8 M

DELTA TIME	PRESSURE	TIME	DATE
13.567	2099.175	9:28	2- 9-80
13.600	2099.175	9:30	
13.700	2099.562	9:36	
13.733	2101.112	9:38	
13.767	2092.591	9:40	
13.800	2097.820	9:42	
13.867	2093.753	9:46	
13.900	2093.172	9:48	
14.000	2096.464	9:54	
14.033	2098.207	9:56	
14.067	2099.950	9:58	
14.100	2097.239	10: 0	
14.133	2099.950	10: 2	
14.233	2105.953	10: 8	
14.267	2094.721	10:10	
14.300	2096.658	10:12	
14.333	2097.432	10:14	
14.467	2104.597	10:22	
14.500	2104.016	10:24	
14.533	2104.016	10:26	
14.567	2100.337	10:28	
14.600	2104.016	10:30	
14.667	2098.013	10:34	
14.700	2097.239	10:36	
14.733	2100.337	10:38	
14.767	2100.913	10:40	
14.800	2098.594	10:42	
14.833	2088.331	10:44	
14.900	2101.305	10:48	
15.033	2100.143	10:56	
15.067	2097.045	10:58	
15.100	2097.820	11: 0	
15.133	2095.689	11: 2	
15.167	2096.077	11: 4	
15.200	2099.562	11: 6	
15.233	2099.369	11: 8	
15.267	2098.982	11:10	
15.300	2102.274	11:12	
15.333	2103.048	11:14	
15.367	2104.210	11:16	
15.400	2102.274	11:18	
15.433	2105.759	11:20	
15.600	2104.210	11:30	
15.633	2101.499	11:32	
15.667	2103.823	11:34	
15.700	2105.372	11:36	
15.733	2105.566	11:38	

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NORSKE SHELL
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OFFSHORE NORWAY
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MISCASEOUS SAND, PRESSURE TEST 3, RUN 1, GAUGE 0016, SENSING DEPTH 1572.8 M

DELTA TIME	PRESSURE	TIME	DATE
15.833	2103.242	11:44	2-9-80
15.933	2111.569	11:50	
16.000	2112.537	11:54	
16.033	2112.343	11:56	
16.067	2114.861	11:58	
16.133	2112.537	12: 2	
16.167	2114.280	12: 4	
16.233	2105.178	12: 8	
16.267	2113.699	12:10	
16.300	2116.023	12:12	
16.333	2118.346	12:14	
16.367	2093.753	12:16	
17.067	2059.865	12:58	
17.100	2057.734	13: 0	
17.200	2065.868	13: 6	
17.267	2062.382	13:10	
17.300	2058.896	13:12	
17.333	2063.544	13:14	
17.367	2062.963	13:16	
17.400	2062.963	13:18	
17.433	2058.896	13:20	
17.467	2061.995	13:22	
17.500	2064.899	13:24	
17.533	2062.382	13:26	
17.567	2063.157	13:28	
17.600	2066.449	13:30	
17.633	2055.992	13:32	
17.667	2067.223	13:34	
17.700	2063.350	13:36	
17.733	2067.804	13:38	
17.767	2064.319	13:40	
17.800	2060.446	13:42	
17.833	2062.963	13:44	
17.867	2062.963	13:46	
17.900	2066.836	13:48	
17.933	2063.738	13:50	
17.967	1986.472	13:52	

INCREASE TO 128/64 CHOKE
LOSS OF READINGS DUE TO
VIBRATION
CHOKE CHANGE TO 64/64 AT 12:42

GAUGE CEASED TO FUNCTION
DUE TO VIBRATION