

Denne rapport
tilhører

 **STATOIL**

L&U DOK. SENTER

L. NR. 30284120005

KODE Well 31/2-5 nr 25

Returneres etter bruk

sperry-sun internat

Pressure Survey Report

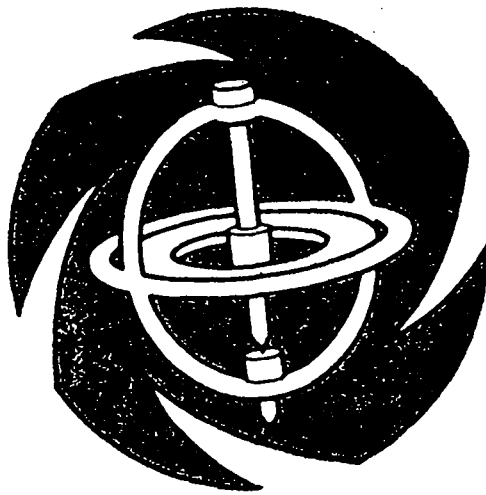
For

NORSKE SHELL A/S

WELL NO: 31/2-5

DATE : 6 JULY 1981

TEST NO: 1 RUN NO. 2



(A Sperry-Sun Company)

Precision Instruments/Professional Service

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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NORSKE SHELL A/S
WILDCAT
31/2-5

OFFSHORE NORWAY
6 JULY 1981
MRPG-903-NOR

TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
0.000	1804.435	15:27	12- 7-81 WELL SHUT IN AT 15:31
0.133	2258.118	15:35	
0.267	2277.021	15:43	
0.400	2278.740	15:51	
0.533	2278.003	15:59	
0.667	2278.740	16: 7	
0.800	2278.985	16:15	
0.933	2278.494	16:23	
1.067	2278.985	16:31	
1.200	2278.985	16:39	
1.333	2278.740	16:47	
1.467	2278.740	16:55	
1.600	2278.985	17: 3	
1.733	2278.985	17:11	
1.867	2279.231	17:19	
2.000	2278.740	17:27	
2.133	2278.494	17:35	
2.267	2278.494	17:43	
2.400	2279.231	17:51	
2.533	2279.722	17:59	
2.667	2279.722	18: 7	GAUGE OFF BOTTOM

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DELTA TIME	PRESSURE	TIME	DATE	
0.000	2281.686	20:55	6- 7-81	SEATED IN NIPPLE AT 20:50
0.133	2281.931	21: 3		
0.267	2282.422	21:11		
0.400	2282.422	21:19		
0.533	2282.668	21:27		
0.667	2273.093	21:35		WELL OPEN TO FLOW

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DELTA TIME	PRESSURE	TIME	DATE	
0.000	2273.093	21:35	6- 7-81	WELL OPEN TO FLOW
0.133	2218.101	21:43		ON 28/64" ADJ CHOKE AT 21:42
0.267	2219.329	21:51		FLOW THROUGH SEPARATOR
0.400	2219.574	21:59		
0.533	2236.023	22: 7		
0.667	2069.574	22:15		CHANGE TO 48/64" ADJ CHOKE
0.800	2039.133	22:23		AT 22:10
0.933	2012.373	22:31		CHANGE TO 64/64" ADJ CHOKE
1.067	1934.059	22:39		AT 22:30
1.200	1917.856	22:47		CHANGE TO 64/64" FIXED CHOKE
1.333	1919.575	22:55		AT 22:40
1.467	1925.221	23: 3		
1.600	1929.149	23:11		
1.733	1930.867	23:19		
1.867	1932.586	23:27		
2.000	1933.322	23:35		
2.133	1934.795	23:43		
2.267	1930.131	23:51		
2.400	1886.678	23:59		CHANGE SAND FILTERS
2.533	1884.468	0: 7	7- 7-81	
2.667	1886.678	0:15		
2.800	1887.414	0:23		
2.933	1888.642	0:31		
3.067	1888.887	0:39		
3.200	1888.396	0:47		
3.333	1887.905	0:55		
3.467	1888.151	1: 3		
3.600	1885.941	1:11		
3.733	1886.187	1:19		
3.867	1886.678	1:27		
4.000	1886.432	1:35		
4.133	1885.696	1:43		
4.267	1886.678	1:51		
4.400	1888.151	1:59		
4.533	1886.432	2: 7		
4.667	1888.642	2:15		
4.800	1888.151	2:23		
4.933	1886.923	2:31		
5.067	1886.187	2:39		
5.200	1887.905	2:47		
5.333	1888.642	2:55		
5.467	1891.588	3: 3		
5.600	1887.414	3:11		
5.733	1889.624	3:19		
5.867	1889.133	3:27		
6.000	1891.097	3:35		

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TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
6.133	1891.588	3:43	7- 7-81
6.267	1888.151	3:51	
6.400	1889.624	3:59	
6.533	1889.869	4: 7	
6.667	1892.324	4:15	
6.800	1889.133	4:23	
6.933	1891.833	4:31	
7.067	1891.097	4:39	
7.200	1892.079	4:47	
7.333	1892.079	4:55	
7.467	1894.043	5: 3	
7.600	1895.516	5:11	
7.733	1896.989	5:19	
7.867	1896.498	5:27	
8.000	1895.761	5:35	
8.133	1895.270	5:43	
8.267	1894.288	5:51	
8.400	1895.761	5:59	
8.533	1896.252	6: 7	
8.667	1896.743	6:15	
8.800	1896.252	6:23	
9.067	1895.270	6:39	
9.200	1895.761	6:47	
9.333	1895.516	6:55	
9.467	1895.761	7: 3	
9.600	1895.025	7:11	
9.733	1895.025	7:19	
9.867	1894.779	7:27	
10.000	1894.043	7:35	
10.267	1894.043	7:51	
10.400	1894.534	7:59	
10.533	1894.043	8: 7	
10.667	1894.288	8:15	
10.800	1892.815	8:23	
10.933	1893.552	8:31	
11.067	1893.797	8:39	
11.200	1893.552	8:47	
11.333	1893.797	8:55	
11.467	1891.833	9: 3	
11.600	1892.079	9:11	
11.733	1893.552	9:19	
11.867	1894.043	9:27	
12.000	1894.534	9:35	
12.133	1894.043	9:43	
12.267	1894.288	9:51	
12.400	1894.043	9:59	
12.533	1884.468	10: 7	

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TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
12.667	1884.223	10:15	7- 7-81
12.800	1884.959	10:23	
12.933	1886.678	10:31	
13.067	1885.941	10:39	
13.200	1886.187	10:47	
13.333	1886.432	10:55	
13.467	1886.678	11: 3	
13.600	1885.205	11:11	
13.733	1887.169	11:19	
13.867	1888.151	11:27	
14.000	1888.396	11:35	
14.133	1888.151	11:43	
14.267	1888.642	11:51	
14.400	1888.642	11:59	
14.533	1887.660	12: 7	
14.667	1887.660	12:15	
14.800	1887.660	12:23	
14.933	1887.169	12:31	
15.067	1888.396	12:39	
15.200	1888.396	12:47	
15.333	1889.133	12:55	
15.467	1888.642	13: 3	
15.600	1888.887	13:11	
15.733	1889.133	13:19	
15.867	1889.378	13:27	
16.000	1888.396	13:35	
16.133	1889.378	13:43	
16.267	1889.133	13:51	
16.400	1888.887	13:59	
16.533	1889.133	14: 7	
16.667	1889.378	14:15	
16.800	1889.378	14:23	
16.933	1889.378	14:31	
17.067	1888.887	14:39	
17.200	1889.624	14:47	
17.333	1889.378	14:55	
17.467	1889.624	15: 3	
17.600	1890.115	15:11	
17.733	1890.360	15:19	
17.867	1890.851	15:27	
18.000	1890.606	15:35	
18.133	1891.097	15:43	
18.267	1890.851	15:51	
18.400	1891.588	15:59	
18.533	1865.565	16: 7	
18.667	1863.846	16:15	
18.800	1863.846	16:23	

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TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
18.933	1865.810	16:31	7- 7-81
19.067	1867.283	16:39	
19.200	1866.792	16:47	
19.333	1868.265	16:55	
19.467	1867.529	17: 3	
19.600	1868.265	17:11	
19.733	1869.247	17:19	
19.867	1869.493	17:27	
20.000	1869.493	17:35	
20.133	1870.475	17:43	
20.267	1870.229	17:51	
20.400	1870.966	17:59	
20.533	1870.229	18: 7	
20.667	1871.457	18:15	
20.800	1870.966	18:23	
20.933	1870.720	18:31	
21.067	1871.211	18:39	
21.200	1871.702	18:47	
21.333	1872.439	18:55	
21.467	1872.193	19: 3	
21.600	1872.930	19:11	
21.733	1873.666	19:19	
21.867	1873.666	19:27	
22.000	1874.157	19:35	
22.133	1873.175	19:43	
22.267	1872.439	19:51	
22.400	1873.666	19:59	
22.533	1872.930	20: 7	
22.667	1873.912	20:15	
22.800	1873.421	20:23	
22.933	1875.139	20:31	
23.067	1872.930	20:39	
23.200	1874.648	20:47	
23.333	1874.403	20:55	
23.467	1875.139	21: 3	
23.600	1874.403	21:11	
23.733	1873.666	21:19	
23.867	1874.403	21:27	
24.000	1873.421	21:35	
24.133	1874.403	21:43	
24.267	1874.894	21:51	
24.400	1874.894	21:59	
24.533	1874.648	22: 7	
24.667	1874.157	22:15	
24.800	1874.648	22:23	
24.933	1874.648	22:31	
25.067	1874.648	22:39	

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TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
25.200	1875.139	22:47	7- 7-81
25.333	1874.403	22:55	
25.467	1874.403	23: 3	
25.600	1874.403	23:11	
25.733	1874.403	23:19	
25.867	1874.157	23:27	
26.000	1874.403	23:35	
26.133	1874.157	23:43	
26.267	1873.666	23:51	
26.400	1874.157	23:59	
26.533	1874.403	0: 7	8- 7-81
26.667	1873.666	0:15	
26.800	1874.403	0:23	
26.933	1872.930	0:31	
27.067	1873.421	0:39	
27.200	1873.421	0:47	
27.333	1873.912	0:55	
27.467	1873.666	1: 3	
27.600	1873.421	1:11	
27.733	1873.175	1:19	
27.867	1874.403	1:27	
28.000	1872.930	1:35	
28.133	1873.421	1:43	
28.267	1873.421	1:51	
28.400	1873.421	1:59	
28.533	1872.930	2: 7	
28.667	1873.175	2:15	
28.800	1873.666	2:23	
28.933	1873.421	2:31	
29.067	1874.403	2:39	
29.200	1874.157	2:47	
29.333	1873.666	2:55	
29.467	1873.175	3: 3	
29.600	1873.421	3:11	
29.733	1874.894	3:19	
29.867	1873.666	3:27	
30.000	1874.648	3:35	
30.133	1874.894	3:43	
30.267	1874.894	3:51	
30.400	1876.121	3:59	
30.533	1874.894	4: 7	
30.667	1875.630	4:15	
30.800	1876.367	4:23	
30.933	1877.103	4:31	
31.067	1877.103	4:39	
31.200	1875.385	4:47	
31.333	1877.349	4:55	

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TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
31.467	1877.103	5: 3	8- 7-81
31.600	1877.349	5:11	
31.733	1875.876	5:19	
31.867	1880.295	5:27	
32.000	1878.822	5:35	
32.133	1877.349	5:43	
32.267	1877.349	5:51	
32.400	1879.558	5:59	
32.533	1880.786	6: 7	
32.667	1885.450	6:15	
32.800	1880.786	6:23	
32.933	1883.732	6:31	
33.067	1882.259	6:39	
33.200	1883.732	6:47	
33.333	1882.013	6:55	
33.467	1882.504	7: 3	
33.600	1881.277	7:11	
33.733	1883.241	7:19	
33.867	1882.259	7:27	
34.000	1881.768	7:35	
34.133	1882.995	7:43	
34.267	1881.031	7:51	
34.400	1882.259	7:59	
34.533	1882.504	8: 7	
34.667	1882.259	8:15	
34.800	1878.331	8:23	
34.933	1879.313	8:31	
35.067	1876.612	8:39	
35.200	1878.576	8:47	
35.333	1877.103	8:55	
35.467	1879.067	9: 3	
35.600	1877.103	9:11	
35.733	1878.576	9:19	
35.867	1875.630	9:27	
36.000	1877.840	9:35	
36.133	1879.067	9:43	
36.267	1877.103	9:51	
36.400	1875.876	9:59	
36.533	1875.876	10: 7	
36.667	1877.103	10:15	
36.800	1875.139	10:23	
36.933	1876.367	10:31	
37.067	1875.876	10:39	
37.200	1876.121	10:47	
37.333	1875.630	10:55	
37.467	1876.121	11: 3	
37.600	1877.103	11:11	

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DELTA TIME	PRESSURE	TIME	DATE
37.733	1876.612	11:19	8- 7-81
37.867	1876.858	11:27	
38.000	1879.558	11:35	
38.133	1879.067	11:43	
38.267	1877.594	11:51	
38.400	1876.612	11:59	
38.533	1877.349	12: 7	
38.667	1876.858	12:15	
38.800	1877.103	12:23	
38.933	1876.858	12:31	
39.067	1876.858	12:39	
39.200	1876.858	12:47	
39.333	1877.103	12:55	
39.467	1878.331	13: 3	
39.600	1878.085	13:11	
39.733	1878.331	13:19	
39.867	1878.331	13:27	
40.000	1879.067	13:35	
40.133	1877.349	13:43	
40.267	1878.822	13:51	
40.400	1879.067	13:59	
40.533	1880.786	14: 7	
40.667	1879.313	14:15	
40.800	1880.540	14:23	
40.933	1880.049	14:31	
41.067	1866.547	14:39	
41.200	1864.828	14:47	
41.333	1866.547	14:55	
41.467	1867.529	15: 3	
41.600	1868.020	15:11	
41.733	1868.511	15:19	
41.867	1868.265	15:27	
42.000	1867.774	15:35	
42.133	1867.774	15:43	
42.267	1867.529	15:51	
42.400	1868.265	15:59	
42.533	1868.265	16: 7	
42.667	1868.756	16:15	
42.800	1869.002	16:23	
42.933	1869.247	16:31	
43.067	1869.002	16:39	
43.200	1870.229	16:47	
43.333	1870.229	16:55	
43.467	1874.157	17: 3	
43.600	1872.930	17:11	
43.733	1873.421	17:19	
43.867	1876.858	17:27	

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DELTA TIME	PRESSURE	TIME	DATE
44.000	1873.666	17:35	8- 7-81
44.133	1875.139	17:43	
44.267	1876.121	17:51	
44.400	1876.121	17:59	
44.533	1877.594	18: 7	
44.667	1877.103	18:15	
44.800	1876.858	18:23	
44.933	1877.349	18:31	
45.067	1877.349	18:39	
45.200	1877.103	18:47	
45.333	1877.103	18:55	
45.467	1877.840	19: 3	
45.600	1876.858	19:11	
45.733	1878.085	19:19	
45.867	1877.594	19:27	
46.000	1877.103	19:35	
46.133	1877.840	19:43	
46.267	1878.331	19:51	
46.400	1879.067	19:59	
46.533	1878.331	20: 7	
46.667	1879.067	20:15	
46.800	1879.558	20:23	
46.933	1879.558	20:31	
47.067	1879.313	20:39	
47.200	1879.804	20:47	
47.333	1880.295	20:55	
47.467	1881.031	21: 3	
47.600	1880.786	21:11	
47.733	1880.540	21:19	
47.867	1881.522	21:27	
48.000	1882.750	21:35	
48.133	1881.768	21:43	
48.267	1882.013	21:51	
48.400	1881.768	21:59	
48.533	1881.522	22: 7	
48.667	1882.504	22:15	
48.800	1882.259	22:23	
48.933	1882.504	22:31	
49.067	1882.995	22:39	
49.200	1883.486	22:47	
49.333	1883.486	22:55	
49.467	1882.750	23: 3	
49.600	1883.241	23:11	
49.733	1883.241	23:19	
49.867	1883.732	23:27	
50.000	1883.486	23:35	
50.133	1883.977	23:43	

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DELTA TIME	PRESSURE	TIME	DATE
50.267	1884.468	23:51	8- 7-81
50.400	1884.468	23:59	
50.533	1884.223	0: 7	9- 7-81
50.667	1884.714	0:15	
50.800	1883.977	0:23	
50.933	1884.223	0:31	
51.067	1884.468	0:39	
51.200	1883.732	0:47	
51.333	1884.468	0:55	
51.467	1885.205	1: 3	
51.600	1884.714	1:11	
51.733	1884.959	1:19	
51.867	1884.959	1:27	
52.000	1884.468	1:35	
52.133	1884.714	1:43	
52.267	1883.977	1:51	
52.400	1884.714	1:59	
52.533	1883.977	2: 7	
52.667	1884.468	2:15	
52.800	1883.732	2:23	
52.933	1883.486	2:31	
53.067	1883.977	2:39	
53.200	1884.959	2:47	
53.333	1883.732	2:55	
53.467	1883.486	3: 3	
53.600	1883.732	3:11	
53.733	1884.468	3:19	
53.867	1884.468	3:27	
54.000	1884.714	3:35	
54.133	1884.223	3:43	
54.267	1884.223	3:51	
54.400	1883.732	3:59	
54.533	1884.468	4: 7	
54.667	1884.468	4:15	
54.800	1884.959	4:23	
54.933	1885.696	4:31	
55.067	1885.941	4:39	
55.200	1885.450	4:47	
55.333	1886.187	4:55	
55.467	1885.941	5: 3	
55.600	1886.187	5:11	
55.733	1885.205	5:19	
55.867	1885.941	5:27	
56.000	1886.432	5:35	
56.133	1887.660	5:43	
56.267	1887.169	5:51	
56.400	1887.169	5:59	

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TEST 1, RUN 2, GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
56.533	1886.678	6: 7	9- 7-81
56.667	1888.151	6:15	
56.800	1887.660	6:23	
56.933	1887.905	6:31	
57.067	1888.642	6:39	
57.200	1888.396	6:47	
57.333	1889.378	6:55	
57.467	1889.133	7: 3	
57.600	1888.642	7:11	
57.733	1889.378	7:19	
57.867	1889.133	7:27	
58.000	1889.869	7:35	
58.133	1890.606	7:43	
58.267	1889.624	7:51	
58.400	1889.624	7:59	
58.533	1889.133	8: 7	
58.667	1889.624	8:15	
58.800	1889.869	8:23	
58.933	1890.851	8:31	
59.067	1889.869	8:39	
59.200	1889.869	8:47	
59.333	1890.115	8:55	
59.467	1889.624	9: 3	
59.600	1890.360	9:11	
59.733	1889.624	9:19	
59.867	1890.115	9:27	
60.000	1889.378	9:35	
60.133	1888.887	9:43	
60.267	1890.115	9:51	
60.400	1888.642	9:59	
60.533	1889.624	10: 7	
60.667	1889.624	10:15	
60.800	1888.887	10:23	
60.933	1889.378	10:31	
61.067	1889.378	10:39	
61.200	1888.887	10:47	
61.333	1889.624	10:55	
61.467	1889.378	11: 3	
61.600	1888.151	11:11	
61.733	1888.642	11:19	
61.867	1888.642	11:27	
62.000	1888.887	11:35	
62.133	1888.887	11:43	
62.267	1887.905	11:51	
62.400	1887.660	11:59	
62.533	1888.151	12: 7	
62.667	1888.396	12:15	

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DELTA TIME	PRESSURE	TIME	DATE
62.800	1888.151	12:23	9- 7-81
62.933	1887.660	12:31	
63.067	1888.151	12:39	
63.200	1888.151	12:47	
63.333	1888.151	12:55	
63.467	1888.151	13: 3	
63.600	1888.396	13:11	
63.733	1888.151	13:19	
63.867	1887.905	13:27	
64.000	1886.432	13:35	
64.133	1887.169	13:43	
64.267	1886.923	13:51	
64.400	1888.151	13:59	
64.533	1887.660	14: 7	
64.667	1888.151	14:15	
64.800	1888.642	14:23	
64.933	1888.396	14:31	
65.067	1887.660	14:39	
65.200	1888.151	14:47	
65.333	1888.151	14:55	
65.467	1888.642	15: 3	
65.600	1888.151	15:11	
65.733	1888.151	15:19	
65.867	1974.812	15:27	
66.000	1870.720	15:35	
66.133	1826.776	15:43	
66.267	1823.093	15:51	
66.400	1839.051	15:59	
66.533	1840.278	16: 7	
66.667	1843.715	16:15	
66.800	1843.224	16:23	
66.933	1843.224	16:31	
67.067	1842.979	16:39	
67.200	1842.733	16:47	
67.333	1843.224	16:55	
67.467	1842.488	17: 3	
67.600	1843.470	17:11	
67.733	1844.452	17:19	
67.867	1845.434	17:27	
68.000	1846.907	17:35	
68.133	1849.853	17:43	
68.267	1850.098	17:51	
68.400	1849.362	17:59	
68.533	1849.853	18: 7	
68.667	1849.853	18:15	
68.800	1850.344	18:23	
68.933	1850.589	18:31	

COMMENCE BEANING WELL UP
AT 15:22
OPEN ON 48/64" + 48/64" ADJ
CHOKES AT 15:35

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DELTA TIME	PRESSURE	TIME	DATE
69.067	1850.344	18:39	9- 7-81
69.200	1851.326	18:47	
69.333	1850.589	18:55	
69.467	1850.344	19: 3	
69.600	1850.835	19:11	
69.733	1850.344	19:19	
69.867	1851.326	19:27	
70.000	1851.817	19:35	
70.133	1851.326	19:43	
70.267	1852.553	19:51	
70.400	1852.062	19:59	
70.533	1853.044	20: 7	
70.667	1852.308	20:15	
70.800	1853.781	20:23	
70.933	1853.290	20:31	
71.067	1853.044	20:39	
71.200	1853.781	20:47	
71.333	1841.260	20:55	BEAN WELL UP AT 21:04
71.467	1826.285	21: 3	
71.600	1792.161	21:11	
71.733	1758.036	21:19	
71.867	1752.635	21:27	
72.000	1741.833	21:35	OPEN ON 64/64" + 64/64" FIXED CHOKES AT 21:27
72.133	1725.630	21:43	BYPASS THORNTON MANIFOLD
72.267	1726.858	21:51	
72.400	1733.732	21:59	
72.533	1733.732	22: 7	
72.667	1734.959	22:15	
72.800	1738.396	22:23	
72.933	1739.624	22:31	
73.067	1741.833	22:39	
73.200	1743.061	22:47	
73.333	1744.288	22:55	
73.467	1742.570	23: 3	
73.600	1674.321	23:11	CHANGE SAND FILTERS
73.733	1676.530	23:19	
73.867	1691.260	23:27	
74.000	1691.506	23:35	
74.133	1691.997	23:43	
74.267	1694.206	23:51	
74.400	1698.380	23:59	
74.533	1700.589	0: 7	10- 7-81
74.667	1698.871	0:15	
74.800	1701.817	0:23	
74.933	1703.044	0:31	
75.067	1703.290	0:39	
75.200	1707.709	0:47	

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DELTA TIME	PRESSURE	TIME	DATE
75.333	1708.936	0:55	10- 7-81
75.467	1709.182	1: 3	
75.600	1708.691	1:11	
75.733	1709.673	1:19	
75.867	1631.113	1:27	CHANGE SAND FILTERS
76.000	1644.125	1:35	
76.133	1654.681	1:43	
76.267	1656.400	1:51	
76.400	1655.418	1:59	
76.533	1656.891	2: 7	
76.667	1658.609	2:15	
76.800	1627.431	2:23	CHANGE SAND FILTERS
76.933	1625.712	2:31	
77.067	1628.167	2:39	
77.200	1629.149	2:47	
77.333	1632.586	2:55	
77.467	1632.095	3: 3	
77.600	1631.113	3:11	
77.733	1641.179	3:19	FLOW THROUGH THORNTON MANIFOLD
77.867	1660.082	3:27	
78.133	1657.382	3:43	
78.267	1659.591	3:51	
78.400	1659.346	3:59	
78.533	1652.963	4: 7	
78.667	1604.599	4:15	CHANGE SAND FILTERS
78.800	1604.845	4:23	
78.933	1609.264	4:31	
79.067	1607.054	4:39	
79.200	1610.491	4:47	
79.333	1613.683	4:55	
79.467	1610.246	5: 3	
79.600	1610.491	5:11	
79.733	1612.946	5:19	
79.867	1611.473	5:27	
80.000	1613.192	5:35	
80.133	1613.437	5:43	
80.267	1613.928	5:51	
80.400	1615.647	5:59	
80.533	1620.066	6: 7	
80.667	1618.593	6:15	
80.800	1616.874	6:23	
80.933	1619.329	6:31	
81.067	1615.156	6:39	
81.200	1595.270	6:47	CHANGE SAND FILTERS
81.333	1590.360	6:55	
81.467	1591.342	7: 3	
81.600	1592.324	7:11	

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DELTA TIME	PRESSURE	TIME	DATE
81.733	1593.061	7:19	10- 7-81
81.867	1592.815	7:27	
82.000	1589.624	7:35	
82.133	1593.552	7:43	
82.267	1592.570	7:51	
82.400	1592.324	7:59	
82.533	1589.869	8: 7	
82.667	1593.797	8:15	
82.800	1592.324	8:23	
82.933	1596.007	8:31	
83.067	1594.779	8:39	
83.200	1594.779	8:47	
83.333	1593.797	8:55	
83.467	1593.306	9: 3	
83.600	1592.570	9:11	
83.733	1596.007	9:19	
83.867	1596.007	9:27	
84.000	1593.797	9:35	
84.133	1595.270	9:43	
84.267	1592.324	9:51	
84.400	1598.707	9:59	
84.533	1597.725	10: 7	
84.667	1593.306	10:15	
84.800	1597.234	10:23	
84.933	1591.833	10:31	
85.067	1597.971	10:39	
85.200	1597.480	10:47	
85.333	1592.815	10:55	
85.467	1599.935	11: 3	
85.600	1600.180	11:11	
85.733	1591.833	11:19	
85.867	1599.935	11:27	
86.000	1598.953	11:35	
86.133	1599.444	11:43	
86.267	1602.144	11:51	
86.400	1598.216	11:59	
86.533	1598.216	12: 7	
86.667	1596.989	12:15	
86.800	1598.953	12:23	
86.933	1596.252	12:31	
87.067	1595.270	12:39	
87.200	1599.198	12:47	
87.333	1598.462	12:55	
87.467	1605.336	13: 3	
87.600	1595.025	13:11	CHANGE SAND FILTERS
87.733	1593.306	13:19	
87.867	1591.342	13:27	

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DELTA TIME	PRESSURE	TIME	DATE
88.000	1591.588	13:35	10- 7-81
88.133	1594.534	13:43	
88.267	1590.851	13:51	
88.400	1591.833	13:59	
88.533	1589.869	14: 7	
88.667	1588.642	14:15	
88.800	1591.097	14:23	
88.933	1587.414	14:31	
89.067	1590.360	14:39	
89.200	1589.869	14:47	
89.333	1591.097	14:55	
89.467	1585.450	15: 3	
89.600	1588.396	15:11	
89.733	1589.133	15:19	
89.867	1587.169	15:27	
90.000	1588.887	15:35	
90.133	1587.169	15:43	
90.267	1585.941	15:51	
90.400	1586.432	15:59	
90.533	1579.067	16: 7	
90.667	1586.923	16:15	
90.800	1584.959	16:23	
90.933	1590.851	16:31	
91.067	1586.923	16:39	
91.200	1588.642	16:47	
91.333	1586.923	16:55	
91.467	1587.414	17: 3	
91.600	1583.241	17:11	
91.733	1586.187	17:19	
91.867	1586.432	17:27	
92.000	1588.396	17:35	
92.133	1589.624	17:43	
92.267	1586.432	17:51	
92.400	1587.660	17:59	
92.533	1586.678	18: 7	
92.667	1588.887	18:15	
92.800	1591.833	18:23	
92.933	1589.624	18:31	
93.067	1588.642	18:39	
93.200	1584.714	18:47	
93.333	1591.588	18:55	
93.467	1588.642	19: 3	
93.600	1586.187	19:11	
93.733	1588.887	19:19	
93.867	1590.115	19:27	
94.000	1586.432	19:35	
94.133	1588.396	19:43	

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DELTA TIME	PRESSURE	TIME	DATE
94.267	1586.678	19:51	10- 7-81
94.400	1590.115	19:59	
94.533	1588.887	20: 7	
94.667	1590.851	20:15	
94.800	1588.887	20:23	
94.933	1585.696	20:31	
95.067	1591.588	20:39	
95.200	1590.851	20:47	
95.333	1587.414	20:55	
95.467	1589.624	21: 3	
95.600	1570.229	21:11	
95.733	1569.984	21:19	
95.867	1578.085	21:27	
96.000	1573.666	21:35	
96.133	1576.612	21:43	
96.267	1573.912	21:51	
96.400	1569.247	21:59	
96.533	1576.612	22: 7	
96.667	1572.193	22:15	
96.800	1575.139	22:23	
96.933	1571.948	22:31	
97.067	1572.684	22:39	
97.200	1550.099	22:47	CHANGE SAND FILTERS
97.333	1548.626	22:55	
97.467	1551.572	23: 3	
97.600	1552.553	23:11	
97.733	1494.616	23:19	OPEN 4" BYPASS
97.867	1499.035	23:27	
98.000	1506.645	23:35	
98.133	1508.118	23:43	
98.267	1513.519	23:51	
98.400	1506.891	23:59	
98.533	1508.364	0: 7	11- 7-81
98.667	1502.963	0:15	
98.800	1515.238	0:23	
98.933	1508.855	0:31	
99.067	1517.693	0:39	
99.200	1511.801	0:47	
99.333	1504.681	0:55	
99.467	1513.765	1: 3	
99.600	1511.555	1:11	
99.733	1518.429	1:19	
99.867	1515.729	1:27	
100.000	1514.501	1:35	
100.133	1513.274	1:43	
100.267	1509.346	1:51	
100.400	1519.902	1:59	

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DELTA TIME	PRESSURE	TIME	DATE
100.533	1522.603	2: 7	11- 7-81
100.667	1519.411	2:15	
100.800	1516.465	2:23	
100.933	1509.591	2:31	
101.067	1517.447	2:39	
101.200	1517.447	2:47	
101.333	1507.382	2:55	
101.467	1518.675	3: 3	
101.600	1517.202	3:11	
101.733	1513.519	3:19	
101.867	1518.184	3:27	
102.000	1512.292	3:35	
102.133	1520.884	3:43	
102.267	1485.532	3:51	
102.400	1493.388	3:59	
102.533	1490.933	4: 7	
102.667	1490.933	4:15	
102.800	1486.760	4:23	
102.933	1490.688	4:31	
103.067	1487.251	4:39	
103.200	1485.778	4:47	
103.333	1484.305	4:55	
103.467	1487.987	5: 3	
103.600	1489.706	5:11	
103.733	1488.233	5:19	
103.867	1487.005	5:27	
104.000	1480.377	5:35	
104.133	1490.197	5:43	
104.267	1489.706	5:51	
104.400	1486.023	5:59	
104.533	1484.796	6: 7	
104.667	1485.287	6:15	
104.800	1476.940	6:23	
104.933	1477.922	6:31	
105.067	1490.933	6:39	
105.200	1492.406	6:47	
105.333	1491.424	6:55	
105.467	1488.478	7: 3	
105.600	1480.377	7:11	
105.733	1482.832	7:19	
105.867	1485.778	7:27	
106.000	1486.760	7:35	
106.267	1485.287	7:51	
106.400	1485.041	7:59	
106.533	1487.005	8: 7	
106.667	1485.287	8:15	
106.800	1483.814	8:23	

CHANGE SAND FILTERS

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DELTA TIME	PRESSURE	TIME	DATE
106.933	1490.933	8:31	11- 7-81
107.067	1486.269	8:39	
107.200	1479.149	8:47	
107.333	1483.323	8:55	
107.467	1483.814	9: 3	
107.600	1484.550	9:11	
107.733	1485.287	9:19	
107.867	1486.514	9:27	
108.000	1482.832	9:35	
108.133	1482.341	9:43	
108.267	1478.904	9:51	
108.400	1486.760	9:59	
108.533	1487.005	10: 7	
108.667	1489.951	10:15	
108.800	1481.359	10:23	
108.933	1487.496	10:31	
109.067	1485.041	10:39	
109.200	1483.568	10:47	
109.333	1484.059	10:55	
109.467	1487.005	11: 3	
109.600	1491.179	11:11	
109.733	1494.861	11:19	
109.867	1484.059	11:27	
110.000	1486.760	11:35	
110.133	1488.969	11:43	
110.267	1488.478	11:51	
110.400	1489.951	11:59	
110.533	1485.041	12: 7	
110.667	1496.334	12:15	
110.800	1489.215	12:23	
110.933	1492.406	12:31	
111.067	1492.406	12:39	
111.200	1493.143	12:47	
111.333	1501.735	12:55	
111.467	1489.706	13: 3	
111.600	1496.334	13:11	
111.733	1485.532	13:19	
111.867	1494.125	13:27	
112.000	1487.251	13:35	
112.133	1494.616	13:43	
112.267	1484.305	13:51	
112.400	1486.514	13:59	
112.533	1490.197	14: 7	
112.667	1486.269	14:15	
112.800	1487.496	14:23	
112.933	1487.251	14:31	
113.067	1495.352	14:39	

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DELTA TIME	PRESSURE	TIME	DATE
113.200	1491.670	14:47	11- 7-81
113.333	1498.298	14:55	
113.467	1643.634	15: 3	CHANGE TO 64/62" FIXED CHOKE
113.600	1721.948	15:11	AT 15:02
113.733	1707.954	15:19	CHANGE SAND FILTERS
113.867	1710.409	15:27	
114.000	1706.727	15:35	
114.133	1743.797	15:43	FLOW THROUGH THORNTON MANIFOLD
114.267	1739.624	15:51	
114.400	1737.169	15:59	
114.533	1739.133	16: 7	
114.667	1734.714	16:15	
114.800	1737.169	16:23	
114.933	1737.905	16:31	
115.067	1735.696	16:39	
115.200	1738.151	16:47	
115.333	1735.941	16:55	
115.467	1735.696	17: 3	
115.600	1736.187	17:11	
115.733	1737.414	17:19	
115.867	1735.941	17:27	
116.000	1734.223	17:35	
116.133	1733.977	17:43	
116.267	1733.486	17:51	
116.400	1733.977	17:59	
116.533	1733.241	18: 7	
116.667	1733.732	18:15	
116.800	1733.241	18:23	
116.933	1732.504	18:31	
117.067	1731.277	18:39	
117.200	1731.277	18:47	
117.333	1731.522	18:55	
117.467	1732.259	19: 3	
117.600	1730.049	19:11	
117.733	1730.295	19:19	
117.867	1731.277	19:27	
118.000	1730.049	19:35	
118.133	1728.822	19:43	
118.267	1730.540	19:51	
118.400	1729.313	19:59	
118.533	1730.049	20: 7	
118.667	1728.822	20:15	
118.800	1729.558	20:23	
118.933	1728.576	20:31	
119.067	1729.313	20:39	
119.200	1730.540	20:47	
119.333	1729.558	20:55	

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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NORSKE SHELL A/S
WILDCAT
31/2-5

OFFSHORE NORWAY
6 JULY 1981
MRPG-903-NOR

TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
119.467	1730.049	21: 3	11- 7-81
119.600	1728.576	21:11	
119.733	1728.576	21:19	
119.867	1730.786	21:27	
120.000	1728.822	21:35	
120.133	1727.840	21:43	
120.267	1728.576	21:51	
120.400	1726.858	21:59	
120.533	1727.103	22: 7	
120.667	1728.576	22:15	
120.800	1728.085	22:23	
120.933	1726.121	22:31	
121.067	1727.594	22:39	
121.200	1727.349	22:47	
121.333	1726.858	22:55	
121.467	1728.085	23: 3	
121.600	1726.858	23:11	
121.733	1726.367	23:19	
121.867	1727.349	23:27	
122.000	1728.085	23:35	
122.133	1727.840	23:43	
122.267	1728.576	23:51	
122.400	1728.085	23:59	
122.533	1728.331	0: 7	12- 7-81
122.667	1728.822	0:15	
122.800	1730.049	0:23	
122.933	1727.349	0:31	
123.067	1728.085	0:39	
123.200	1728.576	0:47	
123.333	1728.576	0:55	
123.467	1729.067	1: 3	
123.600	1728.576	1:11	
123.733	1728.085	1:19	
123.867	1727.840	1:27	
124.000	1729.067	1:35	
124.133	1727.349	1:43	
124.267	1729.313	1:51	
124.400	1727.349	1:59	
124.533	1729.067	2: 7	
124.667	1729.313	2:15	
124.800	1727.840	2:23	
124.933	1729.067	2:31	
125.067	1727.840	2:39	
125.333	1728.331	2:55	
125.467	1728.822	3: 3	
125.600	1728.576	3:11	
125.733	1727.594	3:19	

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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NORSKE SHELL A/S
WILDCAT
31/2-5

OFFSHORE NORWAY
6 JULY 1981
MRPG-903-NOR

TEST 1, RUN 2. GAUGE 0150, SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
125.867	1728.331	3:27	12- 7-81
126.000	1728.576	3:35	.
126.133	1726.367	3:43	
126.267	1727.103	3:51	
126.400	1728.085	3:59	
126.533	1727.103	4: 7	
126.667	1727.840	4:15	
126.800	1727.840	4:23	
126.933	1727.840	4:31	
127.067	1727.349	4:39	
127.200	1725.385	4:47	
127.333	1727.103	4:55	
127.467	1727.349	5: 3	
127.600	1726.121	5:11	
127.733	1726.858	5:19	
127.867	1726.367	5:27	
128.000	1725.630	5:35	
128.133	1727.594	5:43	
128.267	1727.349	5:51	
128.400	1726.121	5:59	
128.533	1727.349	6: 7	
128.667	1726.612	6:15	
128.800	1726.858	6:23	
128.933	1727.103	6:31	
129.067	1727.103	6:39	
129.200	1726.121	6:47	
129.333	1726.612	6:55	
129.467	1725.630	7: 3	
129.600	1726.858	7:11	
129.733	1725.630	7:19	
129.867	1724.648	7:27	
130.000	1726.367	7:35	
130.133	1726.367	7:43	
130.267	1726.612	7:51	
130.400	1726.858	7:59	
130.533	1726.367	8: 7	
130.667	1728.331	8:15	
130.800	1726.612	8:23	
130.933	1727.349	8:31	
131.067	1726.121	8:39	
131.200	1725.876	8:47	
131.333	1726.858	8:55	
131.467	1726.367	9: 3	
131.600	1725.139	9:11	
131.733	1727.103	9:19	
131.867	1726.121	9:27	
132.000	1726.858	9:35	

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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NORSKE SHELL A/S
WILDCAT
31/2-5

OFFSHORE NORWAY
6 JULY 1981
MRPG-903-NOR

TEST 1; RUN 2. GAUGE 0150; SENSING DEPTH 1573.70 M

DELTA TIME	PRESSURE	TIME	DATE
132.133	1727.349	9:43	12- 7-81
132.267	1727.594	9:51	
132.400	1726.367	9:59	
132.533	1727.103	10: 7	
132.667	1728.085	10:15	
132.800	1727.103	10:23	
132.933	1726.612	10:31	
133.067	1817.447	10:39	CHANGE TO 56/64" ADJ CHOKE
133.200	1833.895	10:47	AT 10:35
133.333	1834.877	10:55	
133.467	1837.332	11: 3	
133.600	1811.064	11:11	CHANGE TO 56/64" FIXED CHOKE
133.733	1801.735	11:19	AT 11:05
133.867	1801.489	11:27	
134.000	1802.471	11:35	
134.133	1801.489	11:43	
134.267	1800.753	11:51	
134.400	1801.735	11:59	
134.533	1801.489	12: 7	
134.667	1802.717	12:15	
134.800	1801.980	12:23	
134.933	1802.962	12:31	
135.067	1802.717	12:39	
135.200	1802.962	12:47	
135.333	1802.962	12:55	
135.467	1802.962	13: 3	
135.600	1803.453	13:11	
135.733	1802.717	13:19	
135.867	1803.453	13:27	
136.000	1802.717	13:35	
136.133	1802.717	13:43	
136.267	1802.962	13:51	
136.400	1803.208	13:59	
136.533	1803.453	14: 7	
136.667	1803.944	14:15	
136.800	1803.699	14:23	
136.933	1803.944	14:31	
137.067	1803.699	14:39	
137.200	1803.208	14:47	
137.333	1803.699	14:55	
137.467	1804.926	15: 3	
137.600	1804.190	15:11	
137.733	1805.172	15:19	
137.867	1804.435	15:27	WELL SHUT IN



PRESSURE TEST DATA SUMMARY

COMPANY: NORSKE SHELL A/S DATE: 6 JULY 1981

FIELD: WILDCAT WELL NO: 31/2-5 JOB NO: MRPG-903-NOR

TEST TYPE: PRODUCTION TEST NO: 1 RUN NO: 2 MAX B.H.T. 153 °F

PERFORATION INTERVAL: 1582m - 1588m ZONE: OIL

	TOP	MIDDLE	BOTTOM
GAUGE TYPE/NO.	<u>MRPG/0130</u>	<u>MRPG/0150</u>	<u>AMERADA</u>
PRESSURE SENSING DEPTH	<u>1570.98m</u>	<u>1573.70m</u>	
ELEMENT SIZE	<u>5000 PSI</u>	<u>5000 PSI</u>	
TIME MODE	<u>8 MINUTES</u>	<u>8 MINUTES</u>	
BATTERY TYPE	<u>MERCURY</u>	<u>MERCURY</u>	

EVENT	SURFACE TIMES & DATES	TEMP.	°F
Batteries on gauge 0130	19:46 6/7-81		
" " " 0150	19:47 "		
Gauges seated in nipple	20:50 "	150	
Well opened to flow 28/64" adj.choke	21:42 "	151	
Flow through separator	21:50 "	152	
Change to 48/64" Adj. choke	22:10 "	153	
" " 64/64" Adj. choke	22:30 "	153	
" " 64/64" Fixed choke	22:40 "	153	
Change sand filters	23:51 "	153	
" " "	16:00 7/7-81	153	
" " "	14:33 8/7-81	153	
Commence beaning well up	15:22 9/7-81	153	
48/64" + 48/64" Adj.choke	15:35 "	153	
Bean well up	21:04 "	153	
64/64" + 64/64" fixed choke	21:27 "	153	
Bypass thornton manifold	21:38 "	153	
Change sand filters	23:05 "	153	
" " "	01:25 10/7-81	153	
" " "	02:20 "	153	
Flow through thornton manifold	03:20 "	153	
change sand filters & bypass thorn-			
ton manifold	04:10 "	153	
Change sand filters	06:40 "	152	

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

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



PRESSURE TEST DATA SUMMARY CONTINUATION SHEET

 COMPANY: NORSKE SHELL A/S

 JOB NO: MRPG-903-NOR

EVENT	SURFACE TIMES & DATES		TEMP.	°F
Change sand filters	06:40	10/7-81	151	
Flow through thornton manifold	13:14	"	151	
Open 4" Bypass	23:17	"	150	
Change sand filters	03:45	11/7-81	150	
Change to 64/64" fixed choke	15:02	"	150	
Change sand filters	15:20	"	150	
Flow through thornton manifold	15:37	"	150	
Change to 64/64" adj. choke	10:33	12/7-81	152	
" " 56/64" " "	10:35	"	152	
" " 56/64" Fixed "	11:05	"	152	
Well shut in	15:31	"	153	
Gauges off bottom	18:10	"	151	
Gradient stop at 1279m	18:20-19:00	"	143	
" " " 979m	19:05-19:45	"	133	
" " " 352m	19:55-20:35	"	66	
Lubricator stop	20:45-21:25	"	51	

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

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

