

Denne rapport
tilhører



L&U DOK. SENTER

L. NR. 20088390061

KODE Well 31/2-2 nr 43

Returneres etter bruk

Sperry

International, Inc.

PRESSURE SURVEY REPORT

for

NORSKE SHELL A/S

WELL NO. 31/2-2

DATE: 21 SEPTEMBER 1980

TEST NO. 4



(A Sperry-Sun Company)

Precision Instruments / Professional Service



PRESSURE TEST DATA SUMMARY

COMPANY: NORSKE SHELL A/S DATE: 21 SEPT. 1980
 FIELD: WILDCAT WELL NO: 31/2-2 JOB NO: MRPG-691-NOR
 TEST TYPE: FLOW/BUILD-UP TEST NO: 4 RUN NO: 1 MAX B.H.T. 154 °F
 CLEAN SAND
 PERFORATION INTERVAL: _____ ZONE: GAS

	TOP	MIDDLE	BOTTOM
GAUGE TYPE/NO.	<u>MRPG NO: 0067</u>	<u>MRPG NO: 0009</u>	<u>AMERADA</u>
PRESSURE SENSING DEPTH	<u>1510.5 M.</u>	<u>1513.45 M.</u>	
ELEMENT SIZE	<u>4000 PSI.</u>	<u>4000 PSI.</u>	
TIME MODE	<u>1 MIN.</u>	<u>2 MIN.</u>	
BATTERY TYPE	<u>ALKALINE</u>	<u>ALKALINE</u>	

EVENT	SURFACE TIMES & DATES		TEMP. °F
GAUGES SEATED IN NIPPLE	02.18	21.9.80	147
WELL OPEN ON 22/64" ADJ. CHOKE	04.16	"	147
CHANGE TO 24/64" FIXED CHOKE	04.17	"	148
CHANGE TO 24/64" ADJ. CHOKE AND			
COMMENCE BEANING WELL UP	06.21	"	154
46/64" FIXED CHOKE	06.28	"	152
CHANGE TO 46/64" ADJ. CHOKE AND			
COMMENCE BEANING WELL UP	08.28	"	151
64/64" FIXED CHOKE	08.36	"	150
CHANGE TO 46/64" ADJ. CHOKE	10.37	"	150
CHANGE TO 46/64" FIXED CHOKE	10.56	"	151
WELL SHUT IN	18.06	"	152
WELL OPEN ON 12/64" ADJ. CHOKE AND			
COMMENCE BEANING WELL UP	19.30	"	150
64/64" FIXED CHOKE	19.46	"	152
CHANGE TO 64/64" ADJ. CHOKE AND			
COMMENCE BEANING WELL UP	21.10	"	150
96/64" FIXED CHOKE	21.33	"	146
CHANGE TO 96/64" ADJ. CHOKE AND			
COMMENCE BEANING WELL UP TO MAX	22.23	"	145
128/64" + 128/64" MAX. CHOKE	22.36	"	145
WELL SHUT IN	02.01	22.9.80	145
GAUGES OFF BOTTOM	06.58	"	147

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

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

NB: GAUGE 0067 FAILED WHEN SEATED IN NIPPLE.

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE	
0.000	2263.445	2:17	21- 9-80	GAUGE SEATED IN NIPPLE
0.033	2263.445	2:19		AT 02:18
0.067	2263.840	2:21		
0.100	2264.038	2:23		
0.133	2264.235	2:25		
0.167	2264.235	2:27		
0.200	2263.642	2:29		
0.233	2263.840	2:31		
0.267	2263.445	2:33		
0.300	2263.445	2:35		
0.333	2263.642	2:37		
0.367	2263.840	2:39		
0.400	2263.642	2:41		
0.433	2263.247	2:43		
0.467	2263.247	2:45		
0.500	2263.247	2:47		
0.533	2263.840	2:49		
0.567	2263.642	2:51		
0.600	2263.642	2:53		
0.633	2263.840	2:55		
0.667	2263.445	2:57		
0.700	2263.445	2:59		
0.733	2263.840	3: 1		
0.767	2263.642	3: 3		
0.800	2263.642	3: 5		
0.833	2263.642	3: 7		
0.867	2263.445	3: 9		
0.900	2263.445	3:11		
0.933	2263.445	3:13		
0.967	2263.840	3:15		
1.000	2264.235	3:17		
1.033	2263.642	3:19		
1.067	2263.642	3:21		
1.100	2264.038	3:23		
1.133	2263.445	3:25		
1.167	2263.642	3:27		
1.200	2263.445	3:29		
1.233	2263.445	3:31		
1.267	2264.038	3:33		
1.300	2263.840	3:35		
1.333	2263.445	3:37		
1.367	2263.247	3:39		
1.400	2263.445	3:41		
1.433	2263.840	3:43		
1.467	2263.642	3:45		
1.500	2264.235	3:47		

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
1.533	2263.445	3:49	21- 9-80
1.567	2263.642	3:51	
1.600	2263.445	3:53	
1.633	2263.642	3:55	
1.667	2264.038	3:57	
1.733	2263.840	4: 1	
1.767	2263.642	4: 3	
1.800	2263.050	4: 5	
1.833	2263.050	4: 7	
1.867	2263.642	4: 9	
1.900	2263.642	4:11	
1.933	2264.235	4:13	
1.967	2263.840	4:15	

OPEN WELL AT 04:16

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
0.000	2263.840	4:15	21- 9-80
0.033	2219.769	4:17	OPEN WELL AT 04:16
0.057	2199.216	4:19	ON 22/64" ADJ CHOKE
0.100	2201.982	4:21	FIXED CHOKE 24/64" AT 04:17
0.133	2204.947	4:23	
0.167	2206.923	4:25	
0.200	2207.318	4:27	
0.233	2208.307	4:29	
0.267	2209.097	4:31	
0.300	2209.492	4:33	
0.333	2210.876	4:35	
0.367	2213.643	4:37	
0.400	2215.026	4:39	
0.433	2216.805	4:41	
0.467	2217.595	4:43	
0.500	2217.990	4:45	
0.533	2218.978	4:47	
0.567	2218.978	4:49	
0.600	2219.374	4:51	
0.633	2219.967	4:53	
0.667	2219.967	4:55	
0.700	2220.362	4:57	
0.733	2219.967	4:59	
0.767	2220.559	5: 1	
0.800	2220.955	5: 3	
0.833	2220.955	5: 5	
0.867	2221.943	5: 7	
0.900	2221.152	5: 9	
0.933	2222.141	5:11	
0.967	2222.141	5:13	
1.000	2221.350	5:15	
1.033	2221.745	5:17	
1.067	2222.141	5:19	
1.100	2222.733	5:21	
1.133	2223.129	5:23	
1.167	2223.524	5:25	
1.200	2222.931	5:27	
1.233	2222.338	5:29	
1.267	2222.141	5:31	
1.300	2222.141	5:33	
1.333	2223.326	5:35	
1.367	2223.722	5:37	
1.400	2223.129	5:39	
1.433	2221.152	5:41	
1.467	2218.781	5:43	
1.500	2219.769	5:45	

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CLEAN SAND GAS PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
1.533	2219.176	5:47	21- 9-80
1.567	2219.571	5:49	
1.600	2220.559	5:51	
1.633	2220.164	5:53	
1.667	2219.571	5:55	
1.700	2219.176	5:57	
1.733	2219.967	5:59	
1.767	2219.967	6: 1	
1.800	2220.559	6: 3	
1.833	2220.955	6: 5	
1.867	2220.955	6: 7	
1.900	2220.362	6: 9	
1.933	2219.967	6:11	
1.967	2220.757	6:13	
2.000	2220.955	6:15	
2.033	2221.152	6:17	
2.067	2221.350	6:19	
2.100	2197.437	6:21	
2.133	2107.121	6:23	
2.167	2090.916	6:25	
2.200	2103.168	6:27	
2.233	2110.283	6:29	
2.267	2110.085	6:31	
2.300	2107.714	6:33	
2.333	2105.342	6:35	
2.367	2106.528	6:37	
2.400	2104.947	6:39	
2.433	2101.983	6:41	
2.467	2103.761	6:43	
2.500	2102.576	6:45	
2.533	2100.797	6:47	
2.567	2100.599	6:49	
2.600	2101.192	6:51	
2.633	2101.390	6:53	
2.667	2103.761	6:55	
2.700	2105.145	6:57	
2.733	2102.773	6:59	
2.767	2103.366	7: 1	
2.800	2103.564	7: 3	
2.833	2105.145	7: 5	
2.867	2104.947	7: 7	
2.900	2105.342	7: 9	
2.933	2105.738	7:11	
2.967	2105.935	7:13	
3.000	2107.121	7:15	
3.033	2106.133	7:17	
3.067	2104.354	7:19	

CHOKE CHANGE TO 24/64" ADJ AND
 COMMENCE BEARING WELL UP
 AT 06:21

FIXED CHOKE 46/64" AT 06:28

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
3.100	2106.528	7:21	21- 9-80
3.133	2106.923	7:23	
3.167	2107.516	7:25	
3.200	2105.935	7:27	
3.233	2108.307	7:29	
3.267	2105.738	7:31	
3.300	2108.504	7:33	
3.333	2108.109	7:35	
3.367	2107.516	7:37	
3.400	2107.319	7:39	
3.433	2107.912	7:41	
3.467	2110.085	7:43	
3.500	2109.690	7:45	
3.533	2107.714	7:47	
3.567	2108.307	7:49	
3.600	2108.900	7:51	
3.633	2109.097	7:53	
3.667	2109.097	7:55	
3.700	2107.912	7:57	
3.733	2106.528	7:59	
3.767	2108.702	8: 1	
3.800	2110.678	8: 3	
3.833	2109.097	8: 5	
3.867	2109.888	8: 7	
3.900	2109.493	8: 9	
3.933	2110.481	8:11	
3.967	2108.702	8:13	
4.000	2109.888	8:15	
4.033	2110.678	8:17	
4.067	2109.295	8:19	
4.100	2108.900	8:21	
4.133	2110.283	8:23	
4.167	2111.864	8:25	
4.200	2113.445	8:27	
4.233	2088.939	8:29	
4.267	2037.754	8:31	
4.300	2036.370	8:33	
4.333	2041.509	8:35	
4.367	2056.331	8:37	
4.400	2060.481	8:39	
4.433	2059.888	8:41	
4.467	2059.888	8:43	
4.500	2058.307	8:45	
4.533	2058.307	8:47	
4.567	2060.086	8:49	
4.600	2060.481	8:51	
4.633	2059.097	8:53	

CHOKE CHANGE TO 46/64" ADJ AND
 COMMENCE BEANING WELL UP
 AT 08:28

FIXED CHOKE 64/64" AT 08:36

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
4.667	2058.109	8:55	21- 9-80
4.700	2058.702	8:57	
4.733	2060.086	8:59	
4.767	2058.702	9: 1	
4.800	2059.295	9: 3	
4.833	2060.086	9: 5	
4.867	2059.295	9: 7	
4.900	2059.097	9: 9	
4.933	2058.505	9:11	
4.967	2059.295	9:13	
5.000	2059.295	9:15	
5.033	2060.086	9:17	
5.067	2059.888	9:19	
5.100	2061.074	9:21	
5.133	2059.690	9:23	
5.167	2060.086	9:25	
5.200	2068.979	9:27	
5.233	2065.224	9:29	
5.267	2064.829	9:31	
5.300	2066.014	9:33	
5.333	2064.829	9:35	
5.367	2064.038	9:37	
5.400	2065.026	9:39	
5.433	2065.224	9:41	
5.467	2066.212	9:43	
5.500	2067.003	9:45	
5.533	2066.014	9:47	
5.567	2065.817	9:49	
5.600	2065.619	9:51	
5.633	2066.014	9:53	
5.667	2065.619	9:55	
5.700	2066.410	9:57	
5.733	2067.595	9:59	
5.767	2066.805	10: 1	
5.800	2067.003	10: 3	
5.833	2066.212	10: 5	
5.867	2066.410	10: 7	
5.900	2066.410	10: 9	
5.933	2066.014	10:11	
5.967	2065.026	10:13	
6.000	2067.200	10:15	
6.033	2068.386	10:17	
6.067	2067.398	10:19	
6.100	2067.003	10:21	
6.133	2067.398	10:23	
6.167	2067.595	10:25	
6.200	2063.445	10:27	

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
6.233	2063.445	10:29	21- 9-80
6.267	2063.050	10:31	
6.300	2063.050	10:33	
6.333	2063.643	10:35	
6.367	2087.556	10:37	CHOKE CHANGE TO 46/64" ADJ AT 10:37
6.400	2121.153	10:39	
6.433	2120.757	10:41	
6.467	2117.991	10:43	
6.500	2114.631	10:45	
6.533	2115.817	10:47	
6.567	2118.188	10:49	
6.600	2114.829	10:51	
6.633	2116.805	10:53	
6.667	2103.761	10:55	
6.700	2127.674	10:57	CHOKE CHANGE TO 46/64" FIXED AT 10:56
6.733	2125.896	10:59	
6.767	2126.686	11: 1	
6.800	2127.279	11: 3	
6.833	2128.070	11: 5	
6.867	2127.279	11: 7	
6.900	2127.081	11: 9	
6.933	2126.489	11:11	
6.967	2127.872	11:13	
7.000	2128.267	11:15	
7.033	2126.884	11:17	
7.067	2128.465	11:19	
7.100	2127.872	11:21	
7.133	2129.058	11:23	
7.167	2127.872	11:25	
7.200	2127.081	11:27	
7.233	2127.872	11:29	
7.267	2127.674	11:31	
7.300	2126.884	11:33	
7.333	2127.279	11:35	
7.367	2126.884	11:37	
7.400	2127.872	11:39	
7.433	2127.674	11:41	
7.467	2128.662	11:43	
7.500	2127.477	11:45	
7.533	2129.058	11:47	
7.567	2127.081	11:49	
7.600	2126.686	11:51	
7.633	2126.686	11:53	
7.667	2128.070	11:55	
7.700	2127.477	11:57	
7.733	2128.267	11:59	
7.767	2127.279	12: 1	

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
7.800	2126.686	12: 3	21- 9-80
7.833	2128.070	12: 5	
7.867	2127.872	12: 7	
7.900	2126.489	12: 9	
7.933	2127.672	12:11	
7.967	2128.267	12:13	
8.000	2128.267	12:15	
8.033	2127.279	12:17	
8.067	2128.465	12:19	
8.100	2126.291	12:21	
8.133	2127.674	12:23	
8.167	2128.070	12:25	
8.200	2125.500	12:27	
8.233	2127.674	12:29	
8.267	2129.058	12:31	
8.300	2128.070	12:33	
8.333	2128.860	12:35	
8.367	2127.081	12:37	
8.400	2126.489	12:39	
8.433	2127.081	12:41	
8.467	2129.255	12:43	
8.500	2127.279	12:45	
8.533	2129.058	12:47	
8.567	2128.267	12:49	
8.600	2127.674	12:51	
8.633	2128.662	12:53	
8.667	2129.453	12:55	
8.700	2128.070	12:57	
8.733	2129.058	12:59	
8.767	2127.674	13: 1	
8.800	2127.872	13: 3	
8.833	2128.860	13: 5	
8.867	2128.662	13: 7	
8.900	2128.267	13: 9	
8.933	2128.465	13:11	
8.967	2127.872	13:13	
9.000	2129.453	13:15	
9.033	2129.651	13:17	
9.067	2130.639	13:19	
9.100	2128.070	13:21	
9.133	2126.686	13:23	
9.167	2129.058	13:25	
9.200	2129.453	13:27	
9.233	2128.267	13:29	
9.267	2128.465	13:31	
9.300	2129.255	13:33	
9.333	2128.070	13:35	

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
9.367	2129.651	13:37	21- 9-80
9.400	2128.662	13:39	
9.433	2128.267	13:41	
9.467	2129.058	13:43	
9.500	2130.441	13:45	
9.533	2129.453	13:47	
9.567	2127.872	13:49	
9.600	2128.662	13:51	
9.633	2127.872	13:53	
9.667	2127.279	13:55	
9.700	2127.279	13:57	
9.767	2127.872	14: 1	
9.800	2128.465	14: 3	
9.833	2128.465	14: 5	
9.867	2128.860	14: 7	
9.900	2128.465	14: 9	
9.933	2127.674	14:11	
9.967	2126.267	14:13	
10.000	2127.872	14:15	
10.033	2128.860	14:17	
10.067	2127.674	14:19	
10.100	2128.662	14:21	
10.133	2128.662	14:23	
10.167	2127.081	14:25	
10.200	2129.453	14:27	
10.233	2128.267	14:29	
10.267	2129.651	14:31	
10.300	2129.058	14:33	
10.333	2128.662	14:35	
10.367	2128.465	14:37	
10.400	2128.070	14:39	
10.433	2129.058	14:41	
10.467	2129.651	14:43	
10.500	2129.651	14:45	
10.533	2128.860	14:47	
10.567	2128.465	14:49	
10.600	2129.255	14:51	
10.633	2128.465	14:53	
10.667	2127.279	14:55	
10.700	2128.662	14:57	
10.733	2127.674	14:59	
10.767	2128.662	15: 1	
10.800	2128.465	15: 3	
10.833	2129.255	15: 5	
10.867	2129.848	15: 7	
10.900	2129.058	15: 9	
10.933	2127.872	15:11	

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
10.967	2128.662	15:13	21-9-80
11.000	2129.453	15:15	
11.033	2129.058	15:17	
11.067	2129.453	15:19	
11.100	2129.058	15:21	
11.133	2129.651	15:23	
11.167	2129.058	15:25	
11.200	2131.034	15:27	
11.233	2128.465	15:29	
11.267	2130.639	15:31	
11.300	2130.046	15:33	
11.333	2129.058	15:35	
11.367	2129.058	15:37	
11.400	2128.860	15:39	
11.467	2129.848	15:43	
11.500	2127.872	15:45	
11.533	2128.070	15:47	
11.567	2128.465	15:49	
11.600	2129.848	15:51	
11.633	2128.267	15:53	
11.667	2130.441	15:55	
11.700	2131.429	15:57	
11.733	2130.441	15:59	
11.767	2131.627	16: 1	
11.800	2128.662	16: 3	
11.833	2129.255	16: 5	
11.867	2128.662	16: 7	
11.900	2130.639	16: 9	
11.933	2129.255	16:11	
11.967	2130.243	16:13	
12.000	2130.441	16:15	
12.033	2130.441	16:17	
12.067	2129.058	16:19	
12.100	2130.243	16:21	
12.133	2128.267	16:23	
12.167	2130.441	16:25	
12.200	2129.651	16:27	
12.233	2131.429	16:29	
12.267	2130.441	16:31	
12.300	2129.848	16:33	
12.333	2133.998	16:35	
12.367	2133.406	16:37	
12.400	2130.243	16:39	
12.433	2129.848	16:41	
12.467	2129.255	16:43	
12.500	2130.441	16:45	
12.533	2130.836	16:47	

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DELTA TIME	PRESSURE	TIME	DATE
12.567	2129.651	16:49	21- 9-80
12.600	2129.058	16:51	
12.633	2130.836	16:53	
12.667	2129.651	16:55	
12.700	2131.232	16:57	
12.733	2130.243	16:59	
12.767	2130.046	17: 1	
12.800	2131.034	17: 3	
12.833	2131.825	17: 5	
12.867	2130.046	17: 7	
12.900	2131.034	17: 9	
12.933	2130.639	17:11	
12.967	2129.848	17:13	
13.000	2129.058	17:15	
13.033	2130.639	17:17	
13.067	2129.255	17:19	
13.100	2132.022	17:21	
13.133	2131.627	17:23	
13.167	2130.639	17:25	
13.200	2130.836	17:27	
13.233	2131.232	17:29	
13.267	2128.662	17:31	
13.300	2128.465	17:33	
13.333	2129.651	17:35	
13.367	2129.453	17:37	
13.400	2129.848	17:39	
13.433	2129.848	17:41	
13.467	2129.453	17:43	
13.500	2129.651	17:45	
13.533	2131.034	17:47	
13.567	2131.232	17:49	
13.600	2131.429	17:51	
13.633	2130.441	17:53	
13.667	2133.406	17:55	
13.700	2133.801	17:57	
13.733	2130.836	17:59	
13.767	2132.220	18: 1	

WELL SHUT IN AT 18:06

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DELTA TIME	PRESSURE	TIME	DATE
0.000	2132.220	18: 1	21- 9-80 WELL SHUT IN AT 18:06
0.033	2259.492	18: 3	
0.067	2261.666	18: 5	
0.100	2262.259	18: 7	
0.133	2262.061	18: 9	
0.167	2261.864	18:11	
0.200	2261.271	18:13	
0.233	2262.061	18:15	
0.267	2261.666	18:17	
0.300	2262.061	18:19	
0.333	2262.457	18:21	
0.367	2262.654	18:23	
0.400	2262.457	18:25	
0.433	2261.666	18:27	
0.467	2261.666	18:29	
0.500	2262.061	18:31	
0.533	2262.061	18:33	
0.567	2262.061	18:35	
0.600	2262.457	18:37	
0.633	2262.259	18:39	
0.667	2262.061	18:41	
0.700	2262.061	18:43	
0.733	2261.864	18:45	
0.767	2262.259	18:47	
0.800	2262.457	18:49	
0.833	2262.852	18:51	
0.867	2262.654	18:53	
0.900	2261.666	18:55	
0.933	2262.061	18:57	
0.967	2262.061	18:59	
1.000	2261.864	19: 1	
1.033	2262.457	19: 3	
1.067	2262.457	19: 5	
1.100	2262.457	19: 7	
1.133	2262.259	19: 9	
1.167	2261.864	19:11	
1.200	2261.864	19:13	
1.233	2262.457	19:15	
1.267	2262.259	19:17	
1.300	2262.061	19:19	
1.333	2262.654	19:21	
1.367	2262.654	19:23	
1.400	2262.259	19:25	
1.433	2261.666	19:27	
1.467	2262.457	19:29	
1.500	2261.271	19:31	

WELL OPEN ON 12/64" CHOKE

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE	
0.000	2261.271	19:31	21- 9-80	WELL OPEN ON 12/64" CHOKE
0.033	2260.876	19:33		AND COMMENCE BEANING WELL UP
0.067	2252.180	19:35		AT 19:30
0.100	2225.500	19:37		
0.133	2154.156	19:39		
0.167	2150.402	19:41		
0.200	2136.370	19:43		
0.233	2095.856	19:45		
0.267	2060.678	19:47		FIXED CHOKE 64/64" AT 19:47
0.300	2063.445	19:49		
0.333	2063.248	19:51		
0.367	2063.248	19:53		
0.400	2067.793	19:55		
0.433	2067.793	19:57		
0.467	2065.422	19:59		
0.500	2065.422	20: 1		
0.533	2065.817	20: 3		
0.567	2066.607	20: 5		
0.600	2066.410	20: 7		
0.633	2066.607	20: 9		
0.667	2067.793	20:11		
0.700	2065.817	20:13		
0.733	2064.829	20:15		
0.767	2065.619	20:17		
0.800	2066.014	20:19		
0.833	2063.840	20:21		
0.867	2065.026	20:23		
0.900	2062.852	20:25		
0.933	2064.631	20:27		
0.967	2061.864	20:29		
1.000	2064.433	20:31		
1.033	2065.026	20:33		
1.067	2065.026	20:35		
1.100	2065.224	20:37		
1.133	2063.840	20:39		
1.167	2065.224	20:41		
1.200	2062.852	20:43		
1.233	2064.631	20:45		
1.267	2065.817	20:47		
1.300	2064.631	20:49		
1.333	2064.631	20:51		
1.367	2063.840	20:53		
1.400	2065.026	20:55		
1.433	2065.026	20:57		
1.467	2066.805	20:59		
1.500	2066.014	21: 1		

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DELTA TIME	PRESSURE	TIME	DATE
1.533	2066.410	21: 3	21- 9-80
1.567	2065.619	21: 5	
1.600	2065.619	21: 7	
1.633	2066.410	21: 9	
1.667	2050.402	21:11	CHOKE CHANGE TO 64/64" ADJ AND COMMENCE BEANING WELL UP AT 21:10
1.700	2051.192	21:13	
1.733	2051.192	21:15	
1.767	2046.844	21:17	
1.800	2043.287	21:19	
1.833	2040.323	21:21	
1.867	2040.916	21:23	
1.900	1919.177	21:25	
1.933	1913.446	21:27	
1.967	1902.971	21:29	
2.000	1888.742	21:31	
2.033	1902.576	21:33	FIXED CHOKE 96/64" AT 21:33
2.067	1902.971	21:35	
2.100	1904.750	21:37	
2.133	1902.971	21:39	
2.167	1902.576	21:41	
2.200	1903.169	21:43	
2.233	1901.193	21:45	
2.267	1904.157	21:47	
2.300	1903.169	21:49	
2.333	1903.564	21:51	
2.400	1905.343	21:55	
2.433	1902.378	21:57	
2.467	1904.948	21:59	
2.500	1902.971	22: 1	
2.533	1903.959	22: 3	
2.567	1902.774	22: 5	
2.600	1903.762	22: 7	
2.633	1903.959	22: 9	
2.667	1904.355	22:11	
2.700	1903.762	22:13	
2.733	1905.145	22:15	
2.767	1904.355	22:17	
2.800	1904.157	22:19	
2.833	1903.367	22:21	
2.867	1902.576	22:23	
2.900	1886.173	22:25	CHOKE CHANGE TO 96/64" ADJ AND COMMENCE BEANING WELL UP AT 22:23
2.933	1885.185	22:27	
2.967	1881.035	22:29	
3.000	1877.082	22:31	
3.033	1878.070	22:33	
3.067	1872.734	22:35	MAX CHOKE 128/64" + 128/64" AT 22:36
3.100	1868.189	22:37	

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
3.133	1866.608	22:39	21- 9-80
3.167	1866.212	22:41	
3.200	1866.212	22:43	
3.233	1864.236	22:45	
3.267	1866.805	22:47	
3.300	1867.398	22:49	
3.333	1865.620	22:51	
3.367	1866.805	22:53	
3.400	1865.422	22:55	
3.433	1866.015	22:57	
3.467	1865.620	22:59	
3.500	1867.794	23: 1	
3.533	1866.608	23: 3	
3.567	1866.410	23: 5	
3.600	1867.003	23: 7	
3.633	1865.817	23: 9	
3.667	1866.212	23:11	
3.700	1868.979	23:13	
3.733	1864.631	23:15	
3.767	1868.782	23:17	
3.800	1869.177	23:19	
3.833	1867.991	23:21	
3.867	1869.177	23:23	
3.900	1867.794	23:25	
3.933	1868.189	23:27	
3.967	1865.224	23:29	
4.000	1867.398	23:31	
4.033	1867.003	23:33	
4.067	1867.991	23:35	
4.100	1867.596	23:37	
4.133	1868.189	23:39	
4.167	1868.386	23:41	
4.200	1866.608	23:43	
4.233	1867.794	23:45	
4.267	1867.003	23:47	
4.300	1866.608	23:49	
4.333	1870.165	23:51	
4.367	1867.794	23:53	
4.400	1868.979	23:55	
4.433	1868.782	23:57	
4.467	1866.410	23:59	
4.500	1867.794	0: 1	22- 9-80
4.533	1867.201	0: 3	
4.567	1867.398	0: 5	
4.600	1869.375	0: 7	
4.633	1867.003	0: 9	
4.667	1866.805	0:11	

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CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
4.700	1868.584	0:13	22- 9-80
4.733	1868.189	0:15	
4.767	1866.015	0:17	
4.800	1867.201	0:19	
4.833	1868.386	0:21	
4.867	1869.177	0:23	
4.900	1867.596	0:25	
4.933	1867.003	0:27	
4.967	1868.584	0:29	
5.000	1867.003	0:31	
5.033	1867.201	0:33	
5.067	1868.189	0:35	
5.100	1869.375	0:37	
5.133	1867.596	0:39	
5.167	1867.398	0:41	
5.200	1869.967	0:43	
5.233	1867.596	0:45	
5.267	1868.979	0:47	
5.300	1869.572	0:49	
5.333	1867.991	0:51	
5.367	1867.991	0:53	
5.400	1869.375	0:55	
5.433	1869.572	0:57	
5.467	1868.189	0:59	
5.500	1868.782	1: 1	
5.533	1866.805	1: 3	
5.567	1868.584	1: 5	
5.600	1866.410	1: 7	
5.633	1867.596	1: 9	
5.667	1869.770	1:11	
5.700	1868.386	1:13	
5.733	1869.572	1:15	
5.767	1868.782	1:17	
5.800	1867.794	1:19	
5.833	1867.991	1:21	
5.867	1868.189	1:23	
5.900	1869.177	1:25	
5.933	1870.560	1:27	
5.967	1868.979	1:29	
6.000	1867.991	1:31	
6.033	1868.386	1:33	
6.067	1868.584	1:35	
6.100	1868.782	1:37	
6.133	1868.782	1:39	
6.167	1868.189	1:41	
6.200	1868.584	1:43	
6.233	1871.351	1:45	

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DELTA TIME	PRESSURE	TIME	DATE
6.267	1868.189	1:47	22- 9-80
6.300	1869.967	1:49	
6.333	1867.003	1:51	
6.367	1868.782	1:53	
6.400	1867.794	1:55	
6.433	1868.584	1:57	
6.467	1867.398	1:59	
6.500	1868.782	2: 1	

WELL SHUT IN AT 02:01

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DELTA TIME	PRESSURE	TIME	DATE
0.000	1868.782	2: 1	22- 9-80 WELL SHUT IN AT 02:01
0.033	2150.994	2: 3	
0.067	2261.468	2: 5	
0.100	2262.061	2: 7	
0.133	2262.852	2: 9	
0.167	2262.259	2:11	
0.200	2262.259	2:13	
0.233	2261.666	2:15	
0.267	2261.666	2:17	
0.300	2262.061	2:19	
0.333	2261.864	2:21	
0.367	2262.259	2:23	
0.400	2262.259	2:25	
0.433	2262.259	2:27	
0.467	2262.061	2:29	
0.500	2262.061	2:31	
0.533	2262.259	2:33	
0.567	2263.247	2:35	
0.600	2261.864	2:37	
0.633	2262.061	2:39	
0.667	2262.259	2:41	
0.700	2262.457	2:43	
0.733	2262.061	2:45	
0.767	2262.061	2:47	
0.800	2262.852	2:49	
0.833	2262.654	2:51	
0.867	2262.654	2:53	
0.900	2262.457	2:55	
0.933	2262.457	2:57	
0.967	2261.864	2:59	
1.000	2262.457	3: 1	
1.033	2262.852	3: 3	
1.067	2263.050	3: 5	
1.100	2263.050	3: 7	
1.133	2262.061	3: 9	
1.167	2262.259	3:11	
1.200	2262.061	3:13	
1.233	2262.852	3:15	
1.267	2263.050	3:17	
1.300	2263.050	3:19	
1.333	2262.457	3:21	
1.367	2262.457	3:23	
1.400	2262.852	3:25	
1.433	2262.852	3:27	
1.467	2262.852	3:29	
1.500	2262.259	3:31	

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DELTA TIME	PRESSURE	TIME	DATE
1.533	2262.259	3:33	22- 9-80
1.567	2262.457	3:35	
1.600	2262.259	3:37	
1.633	2262.457	3:39	
1.667	2262.654	3:41	
1.700	2262.654	3:43	
1.733	2262.654	3:45	
1.767	2262.852	3:47	
1.800	2262.061	3:49	
1.833	2262.259	3:51	
1.867	2262.259	3:53	
1.900	2262.259	3:55	
1.933	2263.445	3:57	
1.967	2262.654	3:59	
2.000	2262.654	4: 1	
2.033	2262.654	4: 3	
2.067	2262.457	4: 5	
2.100	2262.457	4: 7	
2.133	2262.259	4: 9	
2.167	2262.852	4:11	
2.200	2262.654	4:13	
2.233	2262.654	4:15	
2.267	2262.457	4:17	
2.300	2261.864	4:19	
2.333	2262.061	4:21	
2.367	2262.457	4:23	
2.400	2262.852	4:25	
2.433	2262.654	4:27	
2.467	2262.457	4:29	
2.500	2261.864	4:31	
2.533	2262.061	4:33	
2.567	2262.259	4:35	
2.600	2262.457	4:37	
2.633	2263.247	4:39	
2.667	2263.247	4:41	
2.700	2262.457	4:43	
2.733	2262.852	4:45	
2.767	2262.259	4:47	
2.800	2262.654	4:49	
2.833	2262.654	4:51	
2.867	2262.259	4:53	
2.900	2262.852	4:55	
2.933	2262.654	4:57	
2.967	2262.457	4:59	
3.000	2262.061	5: 1	
3.033	2262.259	5: 3	
3.067	2262.259	5: 5	

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DELTA TIME	PRESSURE	TIME	DATE
3.100	2262.654	5: 7	22- 9-80
3.133	2262.852	5: 9	
3.167	2262.852	5:11	
3.200	2262.654	5:13	
3.233	2262.457	5:15	
3.267	2262.457	5:17	
3.300	2262.259	5:19	
3.333	2262.852	5:21	
3.367	2262.852	5:23	
3.400	2262.852	5:25	
3.433	2262.061	5:27	
3.467	2262.259	5:29	
3.500	2262.061	5:31	
3.533	2262.457	5:33	
3.567	2262.654	5:35	
3.600	2262.654	5:37	
3.633	2263.050	5:39	
3.667	2262.852	5:41	
3.700	2262.654	5:43	
3.733	2262.457	5:45	
3.767	2262.852	5:47	
3.800	2262.654	5:49	
3.833	2263.840	5:51	
3.867	2262.852	5:53	
3.900	2262.654	5:55	
3.933	2262.259	5:57	
3.967	2262.061	5:59	
4.000	2262.654	6: 1	
4.033	2262.457	6: 3	
4.067	2263.642	6: 5	
4.100	2263.642	6: 7	
4.133	2262.654	6: 9	
4.167	2262.259	6:11	
4.200	2262.061	6:13	
4.233	2262.852	6:15	
4.267	2262.852	6:17	
4.300	2262.852	6:19	
4.333	2263.050	6:21	
4.367	2263.050	6:23	
4.400	2262.259	6:25	
4.433	2262.259	6:27	
4.467	2262.654	6:29	
4.500	2263.050	6:31	
4.533	2263.445	6:33	
4.567	2262.654	6:35	
4.600	2263.247	6:37	
4.633	2262.259	6:39	

SPEERY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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NORSKE SHELL
WILDCAT
31/2-2

OFFSHORE NORWAY
21 SEPTEMBER 1980
MRPG-691-NOR

CLEAN SAND GAS, PRESSURE TEST 4, GAUGE 0009, SENSING DEPTH AT 1513.45 M

DELTA TIME	PRESSURE	TIME	DATE
4.667	2262.457	6:41	22- 9-80
4.700	2262.852	6:43	
4.733	2263.247	6:45	
4.767	2263.050	6:47	
4.800	2263.050	6:49	
4.867	2262.457	6:53	
4.933	2263.247	6:57	
4.967	2262.852	6:59	

GAUGES OFF BOTTOM AT 06:58