

3/21/83

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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ELF AQUITAINE NORGE A/S
EXPLORATION
1/3-3

NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 2196, UP STREAM CHOKE MANIFOLD PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.000	424.0	11:28	12/ 3/83 OPENED APR"N" AND
0.004	655.0	11:28	BUBBLE HOSE
0.008	796.0	11:28	
0.012	872.0	11:28	
0.017	936.0	11:29	
0.021	978.0	11:29	
0.025	1015.0	11:29	
0.029	1035.0	11:29	
0.033	1096.0	11:30	
0.038	1166.0	11:30	
0.042	1238.0	11:30	
0.046	1295.0	11:30	
0.050	1344.0	11:31	
0.054	1382.0	11:31	
0.058	1420.0	11:31	
0.062	1437.0	11:31	
0.067	1462.0	11:32	
0.071	1496.0	11:32	
0.075	1575.0	11:32	CLOSED BUBBLE HOSE
0.079	1647.0	11:32	
0.083	1704.0	11:33	
0.087	1750.0	11:33	
0.092	1778.0	11:33	
0.096	1808.0	11:33	CLOSED APR"N"

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EXPLORATION
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 2196, UP STREAM CHOKE MANIFOLD PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.000	1846.0	12:37	12/ 3/83 OPENED APR"N"
0.008	2126.0	12:37	
0.017	820.0	12:38	OPENED C/M ON 1/4" FIXED CHOKE
0.025	172.0	12:38	
0.033	86.0	12:39	
0.042	72.0	12:39	
0.050	66.0	12:40	
0.058	61.0	12:40	
0.067	61.0	12:41	
0.075	60.0	12:41	
0.083	58.0	12:42	
0.092	57.0	12:42	
0.100	56.0	12:43	
0.108	55.0	12:43	
0.117	54.0	12:44	
0.125	53.0	12:44	
0.133	52.0	12:45	
0.142	54.0	12:45	
0.150	51.0	12:46	
0.158	50.0	12:46	
0.167	50.0	12:47	
0.175	51.0	12:47	
0.183	50.0	12:48	
0.192	49.0	12:48	
0.200	49.0	12:49	
0.208	51.0	12:49	
0.217	48.0	12:50	
0.225	48.0	12:50	
0.233	48.0	12:51	
0.242	49.0	12:51	
0.250	47.0	12:52	
0.258	46.0	12:52	
0.267	48.0	12:53	
0.275	47.0	12:53	
0.292	49.0	12:54	
0.308	46.0	12:55	
0.325	47.0	12:56	
0.342	46.0	12:57	
0.358	46.0	12:58	
0.375	46.0	12:59	
0.392	46.0	13: 0	
0.408	46.0	13: 1	
0.425	46.0	13: 2	
0.442	45.0	13: 3	
0.458	47.0	13: 4	
0.475	46.0	13: 5	
0.492	45.0	13: 6	
0.508	46.0	13: 7	
0.525	45.0	13: 8	
0.542	45.0	13: 9	

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ELF AQUITAINE NORGE A/S
EXPLORATION
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 2196, UP STREAM CHOKE MANIFOLD PRESSURE.

DELTA TIME GAUGE TIME
HOURS PRESSURE
 (PSI)

0.642	47.0	13:15	12/ 3/83
0.808	43.0	13:25	
0.975	47.0	13:35	
1.142	48.0	13:45	
1.308	53.0	13:55	
1.475	53.0	14: 5	
1.642	59.0	14:15	
1.808	64.0	14:25	
1.975	69.0	14:35	
2.142	75.0	14:45	
2.308	81.0	14:55	
2.475	91.0	15: 5	
2.642	100.0	15:15	
2.725	108.0	15:20	
2.808	116.0	15:25	
2.892	127.0	15:30	
2.975	141.0	15:35	
3.058	159.0	15:40	
3.142	188.0	15:45	
3.225	237.0	15:50	
3.308	305.0	15:55	
3.392	386.0	16: 0	
3.475	461.0	16: 5	
3.558	547.0	16:10	
3.642	648.0	16:15	
3.725	667.0	16:20	
3.808	641.0	16:25	
3.892	618.0	16:30	
3.975	673.0	16:35	
4.058	724.0	16:40	
4.142	740.0	16:45	
4.225	773.0	16:50	
4.308	773.0	16:55	
4.392	819.0	17: 0	
4.475	849.0	17: 5	
4.558	870.0	17:10	
4.642	904.0	17:15	
4.725	653.0	17:20	
4.808	569.0	17:25	
4.892	511.0	17:30	
4.975	503.0	17:35	
5.058	494.0	17:40	
5.142	468.0	17:45	
5.225	441.0	17:50	
5.308	467.0	17:55	
5.392	446.0	18: 0	
5.475	478.0	18: 5	
5.558	468.0	18:10	
5.642	489.0	18:15	
5.725	445.0	18:20	

INCREASED TO 3/8" ADJ CHOKE

CHANGED TO 3/8" FIXED CHOKE
CHANGED TO 3/8" ADJ CHOKE

INCREASED TO 1/2" FIXED CHOKE

FLOWED THROUGH HEATER

3/21/83

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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ELF AQUITAINE NORGE A/S
EXPLORATION
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 2196, UP STREAM CHOKE MANIFOLD PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
5.808	353.0	18:25	12/ 3/83
5.892	367.0	18:30	
5.975	388.0	18:35	
6.058	326.0	18:40	
6.142	499.0	18:45	
6.225	463.0	18:50	
6.308	337.0	18:55	
6.392	373.0	19: 0	
6.475	481.0	19: 5	
6.558	494.0	19:10	
6.642	508.0	19:15	
6.725	516.0	19:20	
6.808	504.0	19:25	
6.892	517.0	19:30	
6.975	517.0	19:35	
7.058	489.0	19:40	
7.142	498.0	19:45	
7.225	502.0	19:50	
7.308	503.0	19:55	
7.392	481.0	20: 0	
7.475	515.0	20: 5	
7.558	528.0	20:10	
7.642	523.0	20:15	
7.725	521.0	20:20	
7.808	459.0	20:25	
7.892	476.0	20:30	
7.975	536.0	20:35	
8.058	521.0	20:40	
8.142	518.0	20:45	
8.225	515.0	20:50	
8.308	526.0	20:55	
8.392	527.0	21: 0	
8.475	534.0	21: 5	
8.558	534.0	21:10	
8.642	528.0	21:15	
8.725	534.0	21:20	
8.808	519.0	21:25	
8.892	555.0	21:30	
8.975	542.0	21:35	
9.058	527.0	21:40	
9.142	515.0	21:45	
9.225	537.0	21:50	
9.308	532.0	21:55	
9.392	535.0	22: 0	
9.475	536.0	22: 5	
9.558	514.0	22:10	
9.642	539.0	22:15	
9.725	509.0	22:20	
9.808	545.0	22:25	
9.892	507.0	22:30	

FLOWED THROUGH SEPERATOR

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SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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EXPLORATION
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 2196, UP STREAM CHOKE MANIFOLD PRESSURE.

DELTA TIME GAUGE TIME
HOURS PRESSURE
 (PSI)

10.142	547.0	22:45	12/ 3/83
10.308	551.0	22:55	
10.392	555.0	23: 0	
10.475	499.0	23: 5	
10.558	552.0	23:10	
10.642	556.0	23:15	
10.725	557.0	23:20	
10.808	564.0	23:25	
10.892	563.0	23:30	
10.975	642.0	23:35	
11.058	772.0	23:40	
11.142	930.0	23:45	
11.225	1018.0	23:50	
11.308	1088.0	23:55	
11.392	1153.0	0: 0	13/ 3/83
11.475	1205.0	0: 5	
11.558	1243.0	0:10	
11.642	1269.0	0:15	
11.725	1301.0	0:20	
11.808	1322.0	0:25	
11.892	1336.0	0:30	
11.975	1340.0	0:35	
12.058	1359.0	0:40	
12.142	1370.0	0:45	
12.225	1374.0	0:50	
12.308	1378.0	0:55	
12.392	1386.0	1: 0	
12.475	1387.0	1: 5	
12.558	1390.0	1:10	
12.642	1391.0	1:15	
12.725	1393.0	1:20	
12.808	1393.0	1:25	
12.892	1395.0	1:30	
12.975	1398.0	1:35	
13.058	1400.0	1:40	
13.142	1400.0	1:45	
13.225	1401.0	1:50	
13.308	1401.0	1:55	
13.392	1402.0	2: 0	
13.475	1402.0	2: 5	
13.558	1400.0	2:10	
13.642	1400.0	2:15	
13.725	1401.0	2:20	
13.808	1400.0	2:25	
13.892	1403.0	2:30	
13.975	1405.0	2:35	
14.058	1407.0	2:40	
14.142	1407.0	2:45	
14.225	1409.0	2:50	
14.308	1411.0	2:55	

DECREASED TO 1/4" ADJ CHOKE

CHANGED TO 1/4" FIXED CHOKE

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SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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ELF AQUITAINE NORGE A/S
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 2196, UP STREAM CHOKE MANIFOLD PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
14.392	1414.0	3: 0	13/ 3/83
14.475	1417.0	3: 5	
14.558	1419.0	3:10	
14.642	1418.0	3:15	
14.725	1422.0	3:20	
14.808	1423.0	3:25	
14.892	1427.0	3:30	
14.975	1433.0	3:35	
15.058	1434.0	3:40	
15.175	1436.0	3:47	
15.225	1436.0	3:50	
15.308	1436.0	3:55	
15.392	1438.0	4: 0	
15.475	1437.0	4: 5	
15.558	1438.0	4:10	
15.642	1437.0	4:15	
15.725	1440.0	4:20	
15.808	1440.0	4:25	
15.892	1440.0	4:30	
15.975	1439.0	4:35	
16.058	1439.0	4:40	
16.142	1439.0	4:45	
16.225	1449.0	4:50	
16.308	1453.0	4:55	
16.392	1454.0	5: 0	
16.475	1457.0	5: 5	
16.558	1457.0	5:10	
16.725	1458.0	5:20	
16.808	1459.0	5:25	
16.892	1460.0	5:30	
16.975	1463.0	5:35	
17.058	1461.0	5:40	
17.142	1462.0	5:45	
17.225	1466.0	5:50	
17.308	1465.0	5:55	
17.392	1463.0	6: 0	

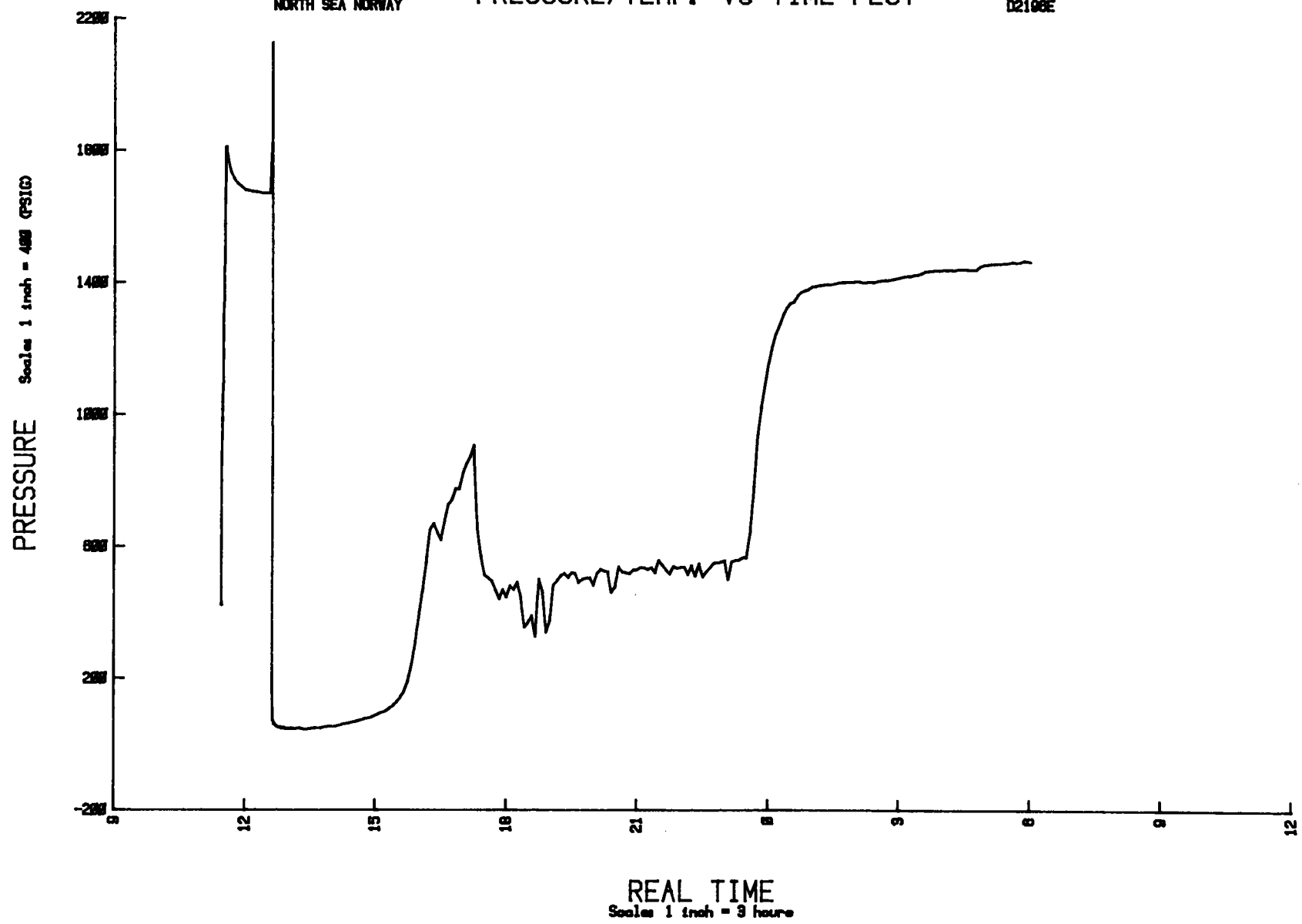
CLOSED APR"N" & CHOKE MANIFOLD

ELF AQUITANE NORGE A/S
1/9-3
D. S. T. NO 38
NORTH SEA NORWAY

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

12TH MARCH 1983
NR-XS-38888
SURFACE PROBE NO 2188
02188E



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SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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ELF AQUITAINE NORGE A/S
EXPLORATION
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 1534, ANNULUS PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.000	1771.0	11:28	12/ 3/83 APR"N" OPENED FOR
0.017	1939.0	11:29	INITIAL FLOW
0.033	1935.0	11:30	
0.050	1937.0	11:31	
0.067	1937.0	11:32	
0.083	1401.0	11:33	
0.100	4.0	11:34	APR"N" CLOSED FOR
0.200	4.0	11:40	INITIAL BUILD UP
0.350	6.0	11:49	
0.517	6.0	11:59	
0.683	6.0	12: 9	
1.100	7.0	12:34	
1.150	1013.0	12:37	APR"N" OPENED FOR
1.167	1758.0	12:38	MAIN FLOW
1.183	1737.0	12:39	
1.283	1741.0	12:45	
1.383	1764.0	12:51	
1.450	1778.0	12:55	
1.550	1804.0	13: 1	
1.617	1822.0	13: 5	
1.683	1839.0	13: 9	
1.783	1863.0	13:15	
1.867	1883.0	13:20	
1.950	1902.0	13:25	
2.033	1921.0	13:30	
2.117	1938.0	13:35	
2.200	1956.0	13:40	
2.283	1974.0	13:45	
2.367	1693.0	13:50	
2.450	1713.0	13:55	
2.533	1724.0	14: 0	
2.617	1742.0	14: 5	
2.700	1757.0	14:10	
2.783	1772.0	14:15	
2.867	1793.0	14:20	
2.950	1810.0	14:25	
3.033	1846.0	14:30	
3.117	1838.0	14:35	
3.200	1851.0	14:40	
3.283	1863.0	14:45	
3.367	1880.0	14:50	
3.450	1894.0	14:55	
3.533	1910.0	15: 0	
3.617	1926.0	15: 5	
3.700	1945.0	15:10	
3.783	1958.0	15:15	
3.867	1966.0	15:20	
3.950	1688.0	15:25	
4.033	1698.0	15:30	
4.117	1717.0	15:35	

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SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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ELF AQUITAINE NORGE A/S
EXPLORATION
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 1534, ANNULUS PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
4.200	1751.0	15:40	12/ 3/83
4.283	1752.0	15:45	
4.367	1756.0	15:50	
4.533	1780.0	16: 0	
4.700	1805.0	16:10	
4.867	1817.0	16:20	
5.033	1866.0	16:30	
5.200	1868.0	16:40	
5.367	1882.0	16:50	
5.533	1916.0	17: 0	
5.617	1850.0	17: 5	
5.700	1749.0	17:10	
5.867	1768.0	17:20	
6.033	1799.0	17:30	
6.200	1846.0	17:40	
6.367	1893.0	17:50	
6.533	1941.0	18: 0	
6.617	1688.0	18: 5	
6.700	1701.0	18:10	
6.867	1766.0	18:20	
7.033	1790.0	18:30	
7.200	1845.0	18:40	
7.367	1900.0	18:50	
7.533	1662.0	19: 0	
7.700	1699.0	19:10	
7.867	1746.0	19:20	
8.033	1792.0	19:30	
8.200	1839.0	19:40	
8.367	1882.0	19:50	
8.533	1923.0	20: 0	
8.700	1696.0	20:10	
8.867	1725.0	20:20	
9.033	1764.0	20:30	
9.200	1800.0	20:40	
9.367	1837.0	20:50	
9.533	1873.0	21: 0	
9.700	1912.0	21:10	
9.867	1953.0	21:20	
10.033	1707.0	21:30	
10.200	1734.0	21:40	
10.367	1765.0	21:50	
10.533	1800.0	22: 0	
10.700	1835.0	22:10	
10.867	1868.0	22:20	
11.033	1898.0	22:30	
11.283	1706.0	22:45	
11.533	1734.0	23: 0	
11.700	1760.0	23:10	
11.867	1790.0	23:20	
12.033	1821.0	23:30	

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EXPLORATION
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NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 38; SURFACE PROBE NO 1534; ANNULUS PRESSURE.

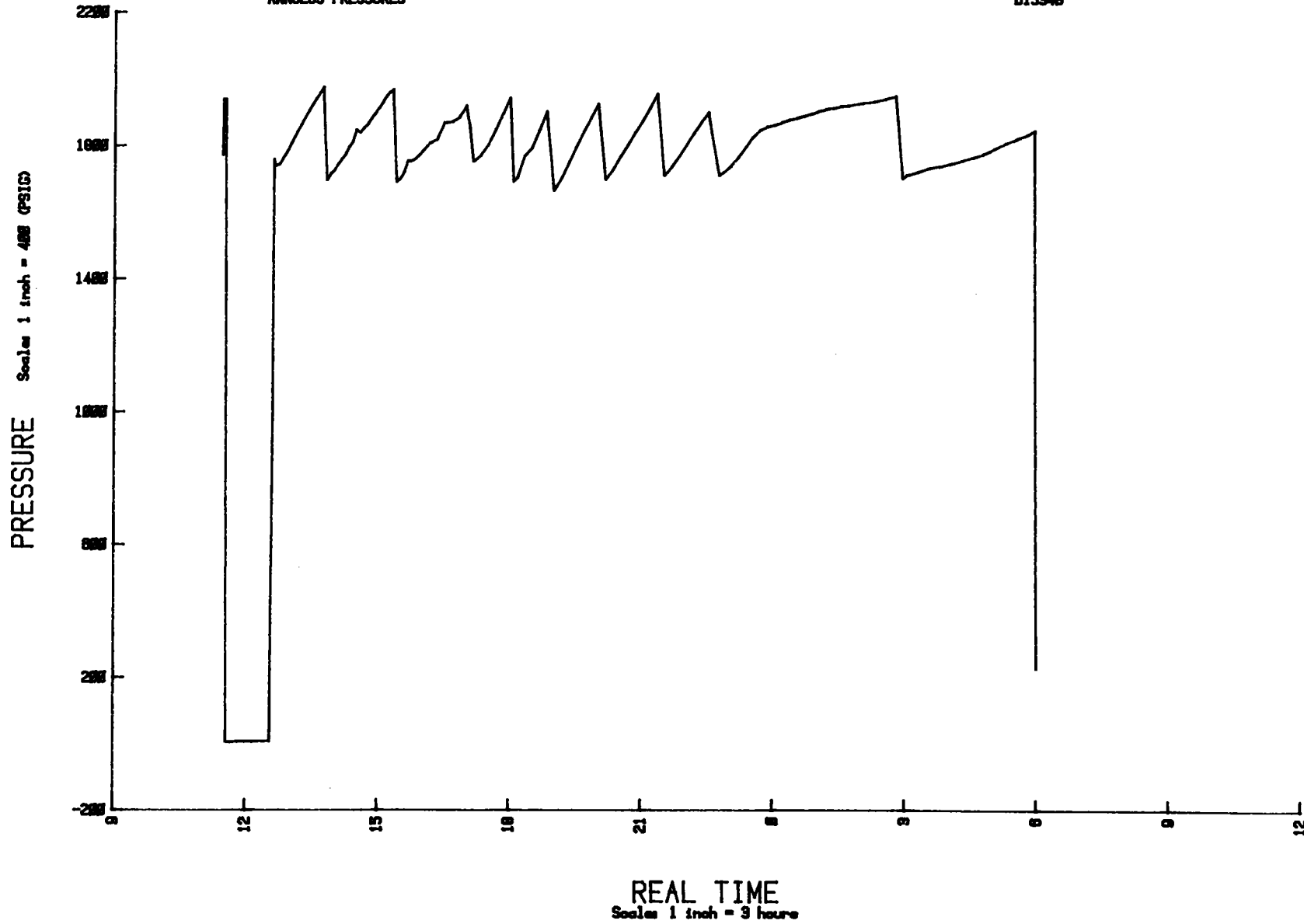
DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
12.200	1844.0	23:40	12/ 3/83
12.367	1855.0	23:50	
12.533	1860.0	0: 0	13/ 3/83
12.700	1868.0	0:10	
12.867	1876.0	0:20	
13.033	1881.0	0:30	
13.200	1887.0	0:40	
13.367	1894.0	0:50	
13.533	1901.0	1: 0	
13.700	1908.0	1:10	
13.867	1912.0	1:20	
14.033	1916.0	1:30	
14.200	1918.0	1:40	
14.533	1926.0	2: 0	
14.783	1930.0	2:15	
15.033	1937.0	2:30	
15.283	1947.0	2:45	
15.450	1698.0	2:55	
15.533	1708.0	3: 0	
15.783	1718.0	3:15	
16.033	1729.0	3:30	
16.283	1735.0	3:45	
16.533	1742.0	4: 0	
16.783	1752.0	4:15	
17.033	1761.0	4:30	
17.283	1772.0	4:45	
17.533	1788.0	5: 0	
17.783	1805.0	5:15	
18.033	1818.0	5:30	
18.283	1832.0	5:45	
18.450	1843.0	5:55	
18.533	227.0	6: 0	

APR"N" CLOSED FOR
MAIN BUILD UP

ELF AQUITANE NORGE A/S
1/3-9
D.S.T. NO 38
ANNULUS PRESSURES

NL Sperry-Sun, Inc.
PRESSURE/TEMP. Vs TIME PLOT

12TH MARCH 1983
NR-XS-30000
SURFACE PROBE NO 1534
01534B





PRESSURE TEST DATA SUMMARY

COMPANY: ELF AQUITAINE NORGE A/S DATE: 3 March 1983
 FIELD: EXPLORATION WELL NO: 1/3 - 3 JOB NO: NR-XS-30009
NR-MS-30008
 TEST TYPE: DST TEST NO: 3 RUN NO: A MAX B.H.T. 315.7 °F
 PERFORATION INTERVAL: 4202.5 - 4208 METRES ZONE: _____

	TOP	MIDDLE	BOTTOM
GAUGE TYPE/NO.	<u>MK I NO. 0184</u>	_____	<u>MK III NO. 0119</u>
PRESSURE SENSING DEPTH	<u>4151.81 METRES</u>	_____	<u>4195.63 METRES</u>
ELEMENT SIZE	<u>10,000 PSI</u>	_____	<u>10,000 PSI</u>
TIME MODE	<u>4 MIN. + 17 HR. DELAY</u>	_____	<u>4 MIN. + 17 HR. DELAY</u>
BATTERY TYPE	<u>SILVER OXIDE</u> (VARTA)	_____	<u>SILVER OXIDE</u> (MALLORY)
EVENT	<u>MK I: 0075 ± 7.5 PSI</u>	SURFACE TIMES & DATES	TEMP. °F

OPENED APR 'N' & BUBBLE HOSE	16:19	4 March 1983
CLOSED APR 'N'	16:23	
OPENED APR 'N' & CHOKE MANIFOLD	17:29	
ON 1/8" ADJ CHOKE		
CHANGED TO 1/4" ADJ CHOKE	17:34	
CHANGED TO 1/4" FIXED CHOKE	17:50	
CHANGED TO 1/8" FIXED CHOKE	18:00	
CHANGED TO 2" ADJ CHOKE	19:37	
SHUT IN AT CHOKE MAINFOLD	22:36	
OPENED CHOKE MANIFOLD 2" ADJ CHOKE	23:35	
CLOSED APR 'N'	03:30	5 March 1983
CLOSED CHOKE MANIFOLD	03:35	
SHEARED APR 'M' & REVERSE CIRCULATED	08:03	6 March 1983

M.R.P.G. PRESSURES ARE RELATIVE TO GAUGE CLOCK TIMES.
 S.P.G. PRESSURES ARE RELATIVE TO TIME GRADIENT CALCULATED FROM SURFACE TIMES.

ELF ADUITANE NORGE A/S
1/3-3
D.S.T. NO 9A
NORTH SEA NORWAY

Oil Sperry-Sun, Inc.
PRESSURE/TEMP. VS TIME PLOT

3RD MARCH 1983
NR-MS-20000
GAUGE NO 0184
010170

