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# Sperry-Sun International, Inc.

## Pressure Survey Report

For

ELF AQUITAINE NORGE A/S

WELL NO: 1/3 - 3

DST NO: 3A

SURFACE & DOWN HOLE PRESSURES

OF NORWAY LTD - FORUS  
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EXPLORATION REPORTS COLLECTION

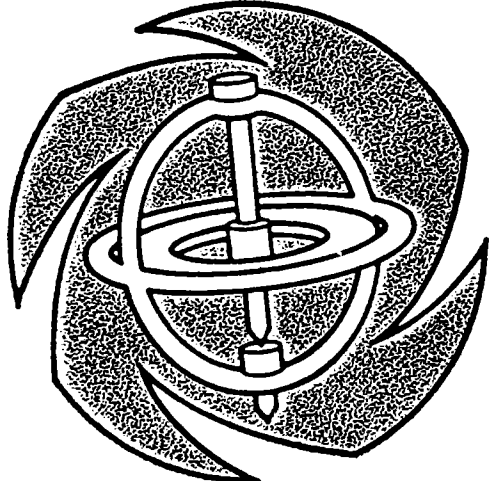
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(A Sperry-Sun Company)

Precision Instruments / Professional Service



**PRESSURE TEST DATA SUMMARY**

COMPANY: ELF AQUITAINE NORGE A/S DATE: 3 March 1983  
 NR-XS-30009  
 FIELD: EXPLORATION WELL NO: 1/3 - 3 JOB NO: 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>	_____	<u>SILVER OXIDE</u>
	<u>(VARTA)</u>	_____	<u>(MALLORY)</u>
EVENT	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.

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ELF AQUITAINE NORGE A/S  
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NORTH SEA NORWAY  
4TH MARCH 1983  
NR-XS-30009

D.S.T. NO 3A, SURFACE PROBE NO 2196, UPSTREAM CHOKE MANIFOLD, INITIAL FLOW.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME
---------------------	----------------------------	------

0.000	4.0	16:19
0.004	4.0	16:19
0.008	14.0	16:19
0.012	31.0	16:19
0.017	81.0	16:20
0.021	113.0	16:20
0.025	123.0	16:20
0.029	146.0	16:20
0.033	153.0	16:21
0.038	164.0	16:21
0.042	175.0	16:21
0.046	185.0	16:21
0.050	190.0	16:22
0.054	190.0	16:22
0.058	191.0	16:22
0.062	190.0	16:22
0.067	204.0	16:23

4/ 3/83 OPENED APR"N" & BUBBLE HOSE

CLOSED APR"N"

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NORTH SEA NORWAY  
4TH MARCH 1983  
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D.S.T. NO 3A, SURFACE PROBE NO 2196, UPSTREAM CHOKE MANIFOLD, SECOND FLOW.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME
---------------------	----------------------------	------

0.000	291.0	17:29
0.008	742.0	17:29
0.017	944.0	17:30
0.025	1150.0	17:30
0.033	1305.0	17:31
0.042	1436.0	17:31
0.050	1552.0	17:32
0.058	1652.0	17:32
0.067	1743.0	17:33
0.075	1824.0	17:33
0.083	1897.0	17:34
0.092	1786.0	17:34
0.100	1028.0	17:35
0.108	508.0	17:35
0.142	183.0	17:37
0.158	274.0	17:38
0.175	302.0	17:39
0.192	326.0	17:40
0.208	341.0	17:41
0.225	299.0	17:42
0.242	238.0	17:43
0.258	253.0	17:44
0.275	267.0	17:45
0.292	271.0	17:46
0.308	269.0	17:47
0.325	276.0	17:48
0.342	248.0	17:49
0.358	261.0	17:50
0.442	194.0	17:55
0.525	276.0	18: 0
0.608	630.0	18: 5
0.692	532.0	18:10
0.775	481.0	18:15
0.858	400.0	18:20
0.942	298.0	18:25
1.025	269.0	18:30
1.108	214.0	18:35
1.192	176.0	18:40
1.275	146.0	18:45
1.358	111.0	18:50
1.442	96.0	18:55
1.525	68.0	19: 0
1.608	56.0	19: 5
1.692	48.0	19:10
1.775	46.0	19:15
1.858	46.0	19:20
1.942	43.0	19:25
2.025	41.0	19:30
2.108	39.0	19:35
2.192	6.0	19:40

4/ 3/83 WELL OPENED ON 1/8" ADJ CHOKE

CHANGED TO 16/64" ADJ CHOKE

CHANGED TO 16/64" FIXED CHOKE

DECREASED TO 1/8" FIXED CHOKE

INCREASED TO 2" CHOKE

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NORTH SEA NORWAY  
4TH MARCH 1983  
NR-XS-30009

D.S.T. NO 3A, SURFACE PROBE NO 2196, UPSTREAM CHOKE MANIFOLD, SECOND FLOW.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
2.275	6.0	19:45	4/ 3/83
2.358	7.0	19:50	
2.525	7.0	20: 0	
2.692	7.0	20:10	
2.858	6.0	20:20	
3.025	6.0	20:30	
3.192	8.0	20:40	
3.358	6.0	20:50	
3.558	6.0	21: 2	
3.775	6.0	21:15	
4.025	6.0	21:30	
4.275	7.0	21:45	
4.525	6.0	22: 0	
4.775	7.0	22:15	
5.025	7.0	22:30	
5.125	7.0	22:36	

SHUT IN AT CHOKE MANIFOLD

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NORTH SEA NORWAY  
4TH MARCH 1983  
NR-XS-30009

D.S.T. NO 3A, SURFACE PROBE NO 2196, UPSTREAM CHOKE MANIFOLD, SECOND BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME	
0.000	7.0	22:36	4/ 3/83 SECOND BUILD UP
0.008	14.0	22:36	
0.017	26.0	22:37	
0.025	39.0	22:37	
0.033	55.0	22:38	
0.042	82.0	22:38	
0.050	118.0	22:39	
0.058	154.0	22:39	
0.067	191.0	22:40	
0.075	226.0	22:40	
0.083	261.0	22:41	
0.092	294.0	22:41	
0.108	326.0	22:42	
0.125	403.0	22:43	
0.142	462.0	22:44	
0.158	519.0	22:45	
0.175	574.0	22:46	
0.192	628.0	22:47	
0.208	678.0	22:48	
0.225	726.0	22:49	
0.242	776.0	22:50	
0.258	819.0	22:51	
0.275	859.0	22:52	
0.292	900.0	22:53	
0.308	940.0	22:54	
0.325	978.0	22:55	
0.342	1015.0	22:56	
0.358	1051.0	22:57	
0.375	1085.0	22:58	
0.392	1119.0	22:59	
0.408	1153.0	23: 0	
0.425	1183.0	23: 1	
0.442	1215.0	23: 2	
0.458	1243.0	23: 3	
0.475	1270.0	23: 4	
0.492	1300.0	23: 5	
0.508	1326.0	23: 6	
0.525	1353.0	23: 7	
0.542	1378.0	23: 8	
0.558	1403.0	23: 9	
0.575	1427.0	23:10	
0.592	1451.0	23:11	
0.608	1471.0	23:12	
0.625	1494.0	23:13	
0.642	1518.0	23:14	
0.658	1537.0	23:15	
0.675	1557.0	23:16	
0.692	1576.0	23:17	
0.708	1596.0	23:18	
0.725	1615.0	23:19	

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NORTH SEA NORWAY  
4TH MARCH 1983  
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D.S.T. NO 3A, SURFACE PROBE NO 2196, UPSTREAM CHOKE MANIFOLD, SECOND BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME
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0.742	1633.0	23:20	4/ 3/83
0.758	1651.0	23:21	
0.775	1667.0	23:22	
0.792	1686.0	23:23	
0.808	1703.0	23:24	
0.825	1718.0	23:25	
0.842	1733.0	23:26	
0.858	1749.0	23:27	
0.875	1763.0	23:28	
0.892	1779.0	23:29	
0.908	1792.0	23:30	
0.925	1807.0	23:31	
0.942	1820.0	23:32	
0.958	1834.0	23:33	
0.975	1847.0	23:34	
0.992	1859.0	23:35	

END OF BUILD UP

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NORTH SEA NORWAY  
4TH MARCH 1983  
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D.S.T. NO 3A, SURFACE PROBE NO 2196, UPSTREAM CHOKE MANIFOLD, THIRD FLOW.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TIME
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0.000	1859.0	23:35	4/ 3/83 OPENED C/M ON 2" ADJ CHOKE
0.017	6.0	23:36	
0.033	7.0	23:37	
0.050	2.0	23:38	
0.067	1.0	23:39	
0.083	1.0	23:40	
0.167	1.0	23:45	
0.250	1.0	23:50	
0.417	1.0	0: 0	5/ 3/83
0.667	2.0	0:15	
0.917	1.0	0:30	
1.167	1.0	0:45	
1.417	1.0	1: 0	
1.667	1.0	1:15	
1.917	1.0	1:30	
2.167	1.0	1:45	
2.417	1.0	2: 0	
2.667	1.0	2:15	
2.917	2.0	2:30	
3.167	1.0	2:45	
3.417	1.0	3: 0	
3.667	5.0	3:15	
3.917	6.0	3:30	

CLOSED APR"N"

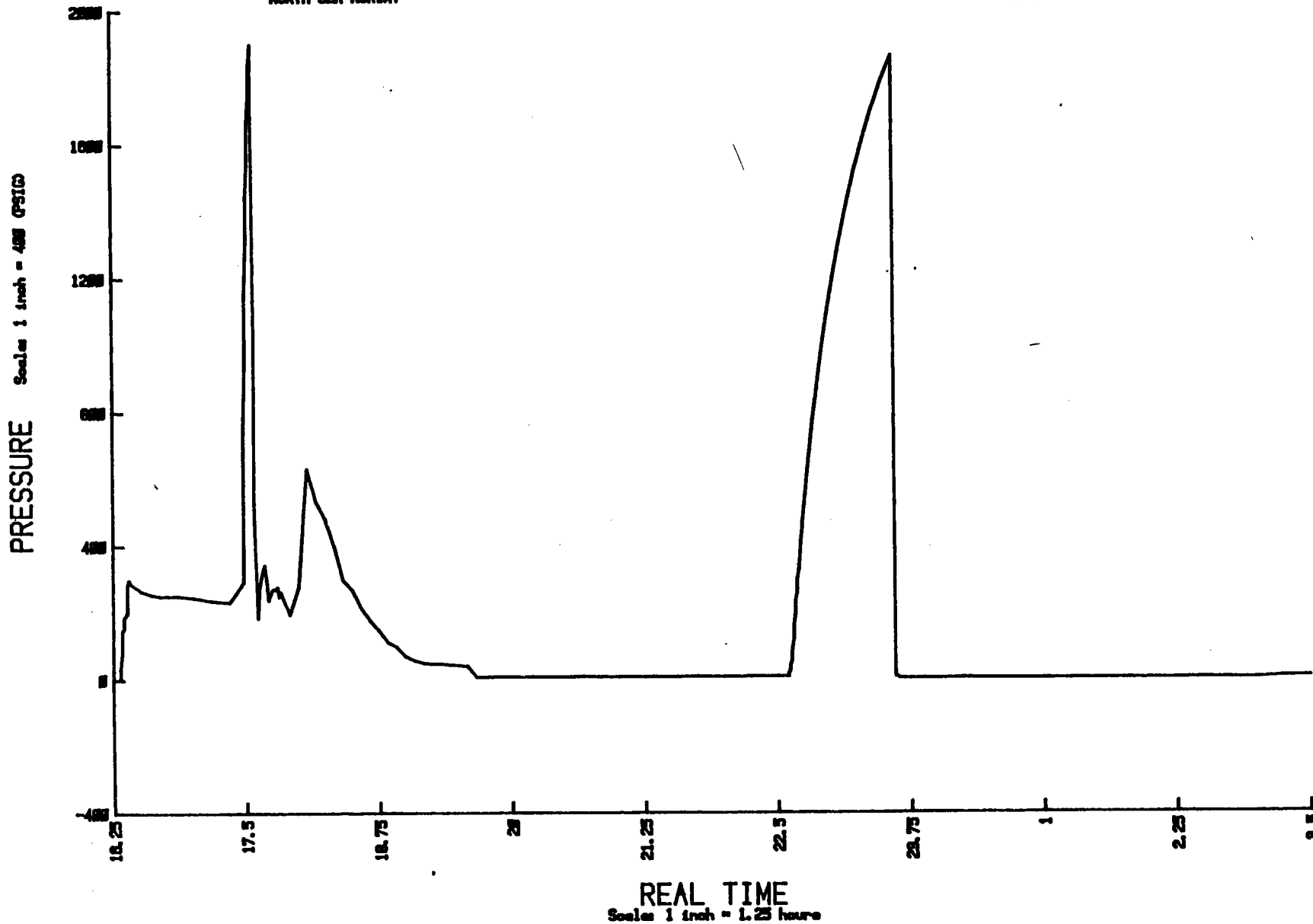


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D.S.T. NO 3A  
NORTH SEA NORWAY

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

4TH MARCH 1983  
NR-MS-30000  
SURFACE PROBE NO 2100  
02100C

HEWLETT  
PACKARD



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3RD MARCH 1983  
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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, INITIAL STATIC.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	8988.208	307.0	15:43	4/ 3/83 INITIAL STATIC
0.07	8983.380	307.0	15:47	
0.13	8978.553	307.0	15:51	
0.20	8973.726	307.0	15:55	
0.27	8969.381	307.0	15:59	
0.33	8963.105	307.0	16: 3	
0.40	8956.347	307.0	16: 7	
0.47	8952.485	307.0	16:11	
0.53	8948.140	307.0	16:15	
0.60	5847.489	307.0	16:19	OPENED APR"N" & BUBBLE HOSE

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NORTH SEA NORWAY  
3RD MARCH 1983  
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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, INITIAL BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	5847.489	307.0	16:19	4/ 3/83 WELL SHUT IN
0.07	6786.472	305.6	16:23	
0.13	8437.399	307.0	16:27	
0.20	8554.223	307.0	16:31	
0.27	8590.911	307.0	16:35	
0.33	8608.773	307.0	16:39	
0.40	8618.910	307.0	16:43	
0.47	8621.324	307.0	16:47	
0.53	8629.531	307.0	16:51	
0.60	8633.392	307.0	16:55	
0.67	8636.289	307.0	16:59	
0.73	8638.703	307.0	17: 3	
0.80	8640.634	307.0	17: 7	
0.87	8642.082	307.0	17:11	
0.93	8643.047	307.0	17:15	
1.00	8644.496	307.0	17:19	
1.07	8641.599	307.0	17:23	
1.13	8645.461	307.0	17:27	END OF BUILD UP

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NORTH SEA NORWAY  
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NR-MS-30008

D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, SECOND FLOW

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	8645.461	307.0	17:27	4/ 3/83 OPENED APR"N" & C/M
0.07	7418.433	307.0	17:31	ON 1/8" ADJ CHOKE
0.13	6239.257	307.0	17:35	INCREASED TO 1/4" ADJ CHOKE
0.20	6283.324	307.7	17:39	
0.27	6212.138	308.4	17:43	
0.33	6240.225	309.2	17:47	
0.40	6108.022	309.9	17:51	CHANGED TO 1/4" FIXED CHOKE
0.47	6167.102	309.9	17:55	
0.53	6167.102	310.6	17:59	
0.60	6610.201	311.3	18: 3	DECREASED TO 1/8" FIXED CHOKE
0.67	6570.007	311.3	18: 7	
0.73	6477.998	311.3	18:11	
0.80	6461.533	311.3	18:15	
0.87	6385.988	311.3	18:19	
0.93	6312.380	311.3	18:23	
1.00	6278.966	311.3	18:27	
1.07	6231.509	311.3	18:31	
1.13	6190.831	311.3	18:35	
1.20	6163.228	311.3	18:39	
1.27	6138.530	311.3	18:43	
1.33	6118.191	311.3	18:47	
1.40	6094.462	311.3	18:51	
1.47	6078.482	311.3	18:55	
1.53	6058.143	310.6	18:59	
1.60	6046.036	310.6	19: 3	
1.67	6042.162	310.6	19: 7	
1.73	6038.772	310.6	19:11	
1.80	6036.351	310.6	19:15	
1.87	6037.804	310.6	19:19	
1.93	6037.320	310.6	19:23	
2.00	6035.383	310.6	19:27	
2.07	6034.898	310.6	19:31	
2.13	6034.898	310.6	19:35	
2.20	6000.516	310.6	19:39	INCREASED TO 2" CHOKE
2.27	6001.000	310.6	19:43	
2.33	6003.421	310.6	19:47	
2.40	6001.484	310.6	19:51	
2.47	6002.453	310.6	19:55	
2.53	6003.421	310.6	19:59	
2.60	6002.937	310.6	20: 3	
2.67	6004.390	310.6	20: 7	
2.73	6003.906	310.6	20:11	
2.80	6005.843	310.6	20:15	
2.87	6004.874	310.6	20:19	
2.93	6006.811	310.6	20:23	
3.00	6006.327	310.6	20:27	
3.07	6004.390	310.6	20:31	
3.13	6007.295	310.6	20:35	
3.20	6008.748	310.6	20:39	
3.27	6008.264	310.6	20:43	

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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, SECOND FLOW

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
3.33	6006.811	310.6	20:47	4/ 3/83
3.40	6006.811	310.6	20:51	
3.47	6008.264	310.6	20:55	
3.53	6010.201	310.6	20:59	
3.60	6009.232	310.6	21: 3	
3.67	6010.201	310.6	21: 7	
3.73	6011.170	310.6	21:11	
3.80	6011.654	310.6	21:15	
3.87	6012.138	310.6	21:19	
3.93	6011.170	310.6	21:23	
4.00	6013.591	310.6	21:27	
4.07	6012.622	310.6	21:31	
4.13	6011.170	310.6	21:35	
4.20	6012.138	310.6	21:39	
4.27	6013.107	310.6	21:43	
4.33	6014.559	310.6	21:47	
4.40	6014.075	310.6	21:51	
4.47	6014.559	310.6	21:55	
4.53	6015.044	310.6	21:59	
4.60	6014.075	310.6	22: 3	
4.67	6016.012	310.6	22: 7	
4.73	6015.528	310.6	22:11	
4.80	6016.981	310.6	22:15	
4.87	6017.465	310.6	22:19	
4.93	6017.465	310.6	22:23	
5.00	6017.949	310.6	22:27	
5.07	6016.981	310.6	22:31	
5.13	6022.792	310.6	22:35	

CLOSED CHOKE MANIFOLD

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NORTH SEA NORWAY  
3RD MARCH 1983  
NR-MS-30008

D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, SECOND BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	6022.792	310.6	22:35	4/ 3/83 WELL SHUT IN
0.07	6215.528	310.6	22:39	
0.13	6475.576	310.6	22:43	
0.20	6693.978	310.6	22:47	
0.27	6876.061	310.6	22:51	
0.33	7032.961	310.6	22:55	
0.40	7170.492	310.6	22:59	
0.47	7290.588	310.6	23: 3	
0.53	7397.126	310.6	23: 7	
0.60	7492.525	310.6	23:11	
0.67	7576.787	310.6	23:15	
0.73	7653.785	309.9	23:19	
0.80	7721.581	309.9	23:23	
0.87	7784.051	309.9	23:27	
0.93	7839.741	309.9	23:31	END OF BUILD UP

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NORTH SEA NORWAY  
3RD MARCH 1983  
NR-MS-30008

D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, THIRD FLOW

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	7839.741	309.9	23:31	4/ 3/83 OPENED CHOKE MANIFOLD
0.07	5996.642	309.9	23:35	ON 2" ADJ CHOKE
0.13	6021.339	309.9	23:39	
0.20	6023.276	309.9	23:43	
0.27	6023.276	309.9	23:47	
0.33	6023.760	309.9	23:51	
0.40	6024.729	309.9	23:55	
0.47	6023.760	309.9	23:59	
0.53	6024.245	310.6	0: 3	5/ 3/83
0.60	6025.697	310.6	0: 7	
0.67	6025.697	310.6	0:11	
0.73	6026.182	310.6	0:15	
0.80	6025.697	310.6	0:19	
0.87	6026.666	310.6	0:23	
0.93	6027.150	310.6	0:27	
1.00	6027.150	310.6	0:31	
1.07	6028.119	310.6	0:35	
1.13	6027.150	310.6	0:39	
1.20	6029.087	310.6	0:43	
1.27	6029.087	310.6	0:47	
1.33	6028.603	310.6	0:51	
1.40	6030.056	310.6	0:55	
1.47	6030.540	310.6	0:59	
1.53	6030.056	310.6	1: 3	
1.60	6030.056	310.6	1: 7	
1.67	6031.024	310.6	1:11	
1.73	6031.993	310.6	1:15	
1.80	6031.993	310.6	1:19	
1.87	6031.509	310.6	1:23	
1.93	6031.993	310.6	1:27	
2.00	6032.961	310.6	1:31	
2.07	6031.993	310.6	1:35	
2.13	6033.446	310.6	1:39	
2.20	6033.446	310.6	1:43	
2.27	6034.414	310.6	1:47	
2.33	6034.414	310.6	1:51	
2.40	6034.898	310.6	1:55	
2.47	6034.898	310.6	1:59	
2.53	6035.383	310.6	2: 3	
2.60	6034.898	310.6	2: 7	
2.67	6035.383	310.6	2:11	
2.73	6036.351	310.6	2:15	
2.80	6035.867	310.6	2:19	
2.87	6035.867	310.6	2:23	
2.93	6036.835	310.6	2:27	
3.00	6036.835	310.6	2:31	
3.07	6036.351	310.6	2:35	
3.13	6037.320	310.6	2:39	
3.20	6037.804	310.6	2:43	
3.27	6037.804	310.6	2:47	

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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, THIRD FLOW

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
3.33	6037.804	310.6	2:51	5/ 3/83
3.40	6038.772	310.6	2:55	
3.47	6038.772	310.6	2:59	
3.53	6041.194	310.6	3: 3	
3.60	6042.162	310.6	3: 7	
3.67	6042.647	310.6	3:11	
3.73	6042.162	310.6	3:15	
3.80	6043.131	310.6	3:19	
3.87	6043.615	310.6	3:23	
3.93	6044.099	310.6	3:27	

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D.S.T. NO 3A, MK 1 GAUGE NO. 0184, SENSING DEPTH 4151.81 METRES, FINAL BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
-0.05	6044.099	310.6	3:27	5/ 3/83 WELL SHUT IN
0.02	6870.734	310.6	3:31	
0.08	7342.404	310.6	3:35	
0.15	7566.133	310.6	3:39	
0.22	7710.927	310.6	3:43	
0.28	7816.981	310.6	3:47	
0.35	7901.242	310.6	3:51	
0.42	7970.976	310.6	3:55	
0.48	8028.517	310.6	3:59	
0.55	8077.756	310.6	4: 3	
0.62	8120.720	310.6	4: 7	
0.68	8157.892	309.9	4:11	
0.75	8190.235	310.6	4:15	
0.82	8220.648	309.9	4:19	
0.88	8245.751	309.9	4:23	
0.95	8268.440	309.9	4:27	
1.02	8288.715	309.9	4:31	
1.08	8307.059	309.9	4:35	
1.15	8324.438	309.9	4:39	
1.22	8338.920	309.9	4:43	
1.28	8352.437	309.9	4:47	
1.35	8364.505	309.9	4:51	
1.42	8376.091	309.9	4:55	
1.55	8394.435	309.9	5: 3	
1.68	8412.779	309.9	5:11	
1.75	8419.538	309.9	5:15	
1.82	8427.262	309.9	5:19	
1.88	8434.503	309.9	5:23	
1.95	8441.261	309.9	5:27	
2.02	8447.054	309.9	5:31	
2.08	8452.847	309.9	5:35	
2.15	8457.674	309.9	5:39	
2.22	8462.985	309.9	5:43	
2.28	8467.812	309.9	5:47	
2.35	8472.157	309.9	5:51	
2.42	8476.984	309.9	5:55	
2.48	8480.363	309.9	5:59	
2.55	8484.225	309.9	6: 3	
2.62	8488.570	309.9	6: 7	
2.68	8491.949	309.9	6:11	
2.75	8495.328	309.9	6:15	
2.82	8498.707	309.9	6:19	
2.88	8502.087	309.9	6:23	
2.95	8505.466	309.9	6:27	
3.02	8507.880	309.9	6:31	
3.08	8510.293	309.9	6:35	
3.15	8513.672	309.9	6:39	
3.22	8516.086	309.9	6:43	
3.28	8518.500	309.9	6:47	
3.35	8520.914	309.9	6:51	

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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, FINAL BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
3.42	8522.845	309.9	6:55	5/ 3/83
3.48	8525.258	309.9	6:59	
3.55	8527.672	309.9	7: 3	
3.62	8530.086	309.9	7: 7	
3.68	8532.017	309.9	7:11	
3.75	8533.948	309.9	7:15	
3.82	8535.396	309.9	7:19	
3.88	8537.810	309.9	7:23	
3.95	8539.258	309.9	7:27	
4.02	8541.189	309.9	7:31	
4.08	8542.637	309.9	7:35	
4.15	8544.568	309.9	7:39	
4.22	8546.016	309.9	7:43	
4.28	8547.464	309.9	7:47	
4.35	8549.395	309.9	7:51	
4.42	8550.844	309.9	7:55	
4.48	8552.292	309.9	7:59	
4.55	8553.740	309.9	8: 3	
4.62	8555.188	309.9	8: 7	
4.68	8556.636	309.9	8:11	
4.75	8558.085	309.9	8:15	
4.82	8559.050	309.9	8:19	
4.88	8560.498	309.9	8:23	
4.95	8561.947	309.9	8:27	
5.02	8562.912	309.9	8:31	
5.08	8564.360	309.9	8:35	
5.55	8571.601	309.9	9: 3	
5.62	8571.601	309.9	9: 7	
5.82	8575.463	309.9	9:19	
5.88	8576.429	309.9	9:23	
5.95	8577.394	309.9	9:27	
6.02	8578.360	309.9	9:31	
6.08	8579.325	309.9	9:35	
6.28	8581.739	309.9	9:47	
6.35	8582.222	309.9	9:51	
6.42	8583.670	309.9	9:55	
6.48	8584.636	309.9	9:59	
6.55	8585.118	309.9	10: 3	
6.62	8586.084	309.9	10: 7	
6.82	8588.015	309.9	10:19	
6.88	8588.980	309.9	10:23	
6.95	8589.463	309.9	10:27	
7.02	8590.428	309.9	10:31	
7.08	8590.911	309.9	10:35	
7.15	8591.877	309.9	10:39	
7.22	8592.359	309.9	10:43	
7.28	8592.842	309.9	10:47	
7.35	8593.325	309.9	10:51	
7.42	8594.290	309.9	10:55	
7.48	8594.773	309.9	10:59	

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DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
7.55	8595.739	309.9	11: 3	5/ 3/83
7.62	8596.221	309.9	11: 7	
7.68	8596.221	309.9	11:11	
7.75	8597.670	309.9	11:15	
7.82	8597.670	309.9	11:19	
7.88	8598.635	309.9	11:23	
7.95	8599.118	309.9	11:27	
8.15	8600.566	309.9	11:39	
8.22	8601.049	309.9	11:43	
8.28	8602.014	309.9	11:47	
8.62	8604.428	309.9	12: 7	
8.68	8604.911	309.9	12:11	
8.75	8605.393	309.9	12:15	
8.82	8605.876	309.9	12:19	
8.88	8606.359	309.9	12:23	
8.95	8606.359	309.9	12:27	
9.02	8607.324	309.9	12:31	
9.08	8607.324	309.9	12:35	
9.15	8608.290	309.9	12:39	
9.22	8608.773	309.9	12:43	
9.28	8608.773	309.9	12:47	
9.35	8609.255	309.9	12:51	
9.42	8609.738	309.9	12:55	
9.48	8610.221	309.9	12:59	
9.55	8610.704	309.9	13: 3	
9.62	8611.186	309.9	13: 7	
9.68	8611.186	309.9	13:11	
9.75	8611.669	309.9	13:15	
9.82	8612.152	309.9	13:19	
9.88	8612.635	309.9	13:23	
9.95	8612.152	309.9	13:27	
10.02	8613.117	309.9	13:31	
10.08	8613.600	309.9	13:35	
10.15	8613.600	309.9	13:39	
10.22	8614.083	309.9	13:43	
10.28	8614.566	309.9	13:47	
10.35	8614.566	309.9	13:51	
10.42	8615.531	309.9	13:55	
10.48	8616.014	309.9	13:59	
10.75	8616.496	309.9	14:15	
10.82	8617.462	309.9	14:19	
10.88	8617.945	309.9	14:23	
10.95	8617.462	309.9	14:27	
11.02	8618.427	309.9	14:31	
11.08	8618.910	309.9	14:35	
11.15	8618.910	309.9	14:39	
11.22	8619.393	309.9	14:43	
11.28	8618.910	309.9	14:47	
11.35	8619.393	309.9	14:51	
11.42	8619.876	309.9	14:55	

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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, FINAL BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
11.95	8622.289	309.9	15:27	5/ 3/83
12.02	8622.289	309.9	15:31	
12.08	8622.772	309.9	15:35	
12.15	8623.255	309.9	15:39	
12.22	8623.255	309.9	15:43	
12.28	8623.738	309.9	15:47	
12.35	8623.738	309.9	15:51	
12.42	8623.738	309.9	15:55	
12.48	8624.703	309.9	15:59	
12.68	8625.186	309.9	16:11	
12.75	8625.186	309.9	16:15	
12.82	8625.669	309.9	16:19	
12.88	8626.151	309.9	16:23	
12.95	8626.151	309.9	16:27	
13.02	8626.634	309.9	16:31	
13.08	8626.634	309.9	16:35	
13.15	8626.634	309.9	16:39	
13.22	8627.117	309.9	16:43	
13.28	8626.634	309.9	16:47	
13.35	8627.600	309.9	16:51	
13.42	8627.600	309.9	16:55	
13.48	8628.082	309.9	16:59	
13.55	8628.565	309.9	17: 3	
13.62	8628.565	309.9	17: 7	
13.82	8629.048	309.9	17:19	
14.02	8630.013	309.9	17:31	
14.08	8630.496	309.9	17:35	
14.15	8630.013	309.9	17:39	
14.22	8630.496	309.9	17:43	
14.28	8630.979	309.9	17:47	
14.35	8630.979	309.9	17:51	
14.42	8630.979	309.9	17:55	
14.48	8631.461	309.9	17:59	
14.55	8631.461	309.9	18: 3	
14.62	8631.461	309.9	18: 7	
14.68	8631.944	309.9	18:11	
14.75	8631.944	309.9	18:15	
14.82	8632.427	309.9	18:19	
14.88	8632.427	309.9	18:23	
14.95	8632.910	309.9	18:27	
15.02	8632.910	309.9	18:31	
15.08	8632.910	309.9	18:35	
15.15	8632.910	309.9	18:39	
15.22	8633.392	309.9	18:43	
15.28	8633.392	309.9	18:47	
15.35	8633.392	309.9	18:51	
15.42	8633.875	309.9	18:55	
15.48	8633.875	309.9	18:59	
15.55	8634.358	309.9	19: 3	
15.62	8634.358	309.9	19: 7	

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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, FINAL BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
15.68	8634.358	309.9	19:11	5/ 3/83
15.75	8634.841	309.9	19:15	
15.82	8634.841	309.9	19:19	
15.88	8634.841	309.9	19:23	
15.95	8635.323	309.9	19:27	
16.02	8635.323	309.9	19:31	
16.42	8636.289	309.9	19:55	
16.48	8636.772	309.9	19:59	
16.55	8636.772	309.9	20: 3	
16.62	8636.772	309.9	20: 7	
16.68	8637.254	309.9	20:11	
16.75	8637.254	309.9	20:15	
16.82	8637.737	309.9	20:19	
16.88	8637.737	309.9	20:23	
16.95	8637.737	309.9	20:27	
17.02	8637.737	309.9	20:31	
17.08	8638.220	309.9	20:35	
17.15	8638.220	309.9	20:39	
17.42	8638.703	309.9	20:55	
17.48	8638.703	309.9	20:59	
17.55	8639.185	309.9	21: 3	
17.62	8639.185	310.6	21: 7	
17.68	8639.185	310.6	21:11	
17.75	8639.185	310.6	21:15	
17.82	8639.185	310.6	21:19	
17.88	8639.668	310.6	21:23	
17.95	8639.668	310.6	21:27	
18.15	8640.151	310.6	21:39	
18.22	8640.151	309.9	21:43	
18.28	8640.151	310.6	21:47	
18.35	8640.634	310.6	21:51	
18.42	8640.634	310.6	21:55	
18.48	8640.634	310.6	21:59	
18.55	8641.116	310.6	22: 3	
18.62	8641.116	310.6	22: 7	
18.68	8641.116	310.6	22:11	
18.75	8641.116	310.6	22:15	
18.82	8641.116	310.6	22:19	
18.88	8641.599	310.6	22:23	
18.95	8641.116	310.6	22:27	
19.02	8641.599	310.6	22:31	
19.08	8642.082	310.6	22:35	
19.15	8641.599	310.6	22:39	
19.22	8642.082	310.6	22:43	
19.28	8642.082	310.6	22:47	
19.35	8642.082	310.6	22:51	
19.42	8642.082	310.6	22:55	
19.48	8642.565	310.6	22:59	
19.55	8642.565	310.6	23: 3	
19.62	8642.565	310.6	23: 7	

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DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
19.68	8643.047	310.6	23:11	5/ 3/83
19.75	8642.565	310.6	23:15	
19.82	8643.047	310.6	23:19	
19.88	8643.047	310.6	23:23	
19.95	8643.047	310.6	23:27	
20.02	8643.530	310.6	23:31	
20.08	8643.530	310.6	23:35	
20.15	8643.530	310.6	23:39	
20.22	8643.530	310.6	23:43	
20.28	8643.530	310.6	23:47	
20.35	8643.047	310.6	23:51	
20.42	8644.013	310.6	23:55	
20.48	8644.013	310.6	23:59	
20.55	8644.013	310.6	0: 3	6/ 3/83
20.62	8644.013	310.6	0: 7	
20.68	8644.013	310.6	0:11	
20.75	8644.013	310.6	0:15	
20.82	8644.496	310.6	0:19	
20.88	8644.496	310.6	0:23	
20.95	8644.496	310.6	0:27	
21.02	8644.496	310.6	0:31	
21.08	8644.978	310.6	0:35	
21.15	8644.978	310.6	0:39	
21.22	8644.978	310.6	0:43	
21.28	8644.978	310.6	0:47	
21.35	8644.978	310.6	0:51	
21.48	8644.496	310.6	0:59	
21.55	8645.461	310.6	1: 3	
21.62	8645.461	310.6	1: 7	
21.68	8645.944	310.6	1:11	
21.75	8645.944	310.6	1:15	
21.82	8645.944	310.6	1:19	
21.95	8644.978	310.6	1:27	
22.02	8646.427	310.6	1:31	
22.08	8645.461	310.6	1:35	
22.15	8646.909	310.6	1:39	
22.22	8646.427	310.6	1:43	
22.28	8646.427	310.6	1:47	
22.35	8646.427	310.6	1:51	
22.42	8646.909	310.6	1:55	
22.48	8646.427	310.6	1:59	
22.55	8646.427	310.6	2: 3	
22.62	8646.909	310.6	2: 7	
22.68	8646.909	310.6	2:11	
22.75	8647.392	310.6	2:15	
22.82	8647.392	310.6	2:19	
22.88	8647.392	310.6	2:23	
22.95	8647.392	310.6	2:27	
23.02	8647.392	310.6	2:31	
23.08	8647.392	310.6	2:35	

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DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
23.15	8647.875	310.6	2:39	6/ 3/83
23.22	8647.875	310.6	2:43	
23.28	8647.875	310.6	2:47	
23.35	8647.875	310.6	2:51	
23.42	8647.875	310.6	2:55	
23.48	8647.875	310.6	2:59	
23.55	8647.875	310.6	3: 3	
23.62	8648.357	310.6	3: 7	
23.68	8647.875	310.6	3:11	
23.75	8647.875	310.6	3:15	
23.82	8648.357	310.6	3:19	
23.88	8647.875	310.6	3:23	
23.95	8647.875	310.6	3:27	
24.02	8648.357	310.6	3:31	
24.08	8648.357	310.6	3:35	
24.15	8647.392	310.6	3:39	
24.22	8648.357	310.6	3:43	
24.28	8648.840	310.6	3:47	
24.35	8648.840	310.6	3:51	
24.42	8648.840	310.6	3:55	
24.48	8648.840	310.6	3:59	
24.55	8649.323	310.6	4: 3	
24.62	8649.323	310.6	4: 7	
24.68	8649.323	310.6	4:11	
24.75	8649.323	310.6	4:15	
24.82	8649.323	310.6	4:19	
24.88	8649.323	310.6	4:23	
24.95	8649.806	310.6	4:27	
25.02	8649.806	310.6	4:31	
25.08	8649.806	310.6	4:35	
25.15	8649.806	310.6	4:39	
25.22	8649.806	310.6	4:43	
25.28	8649.806	310.6	4:47	
25.35	8649.806	310.6	4:51	
25.42	8650.288	310.6	4:55	
25.48	8650.288	310.6	4:59	
25.55	8649.323	310.6	5: 3	
25.62	8650.288	310.6	5: 7	
25.68	8650.288	310.6	5:11	
25.75	8650.288	310.6	5:15	
25.82	8650.288	310.6	5:19	
25.88	8650.771	310.6	5:23	
25.95	8650.288	310.6	5:27	
26.02	8650.771	310.6	5:31	
26.08	8650.771	310.6	5:35	
26.15	8650.771	310.6	5:39	
26.22	8650.771	310.6	5:43	
26.28	8650.771	310.6	5:47	
26.35	8651.254	310.6	5:51	
26.42	8650.771	310.6	5:55	

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ELF AQUITAINE NORGE A/S  
EXPLORATION  
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NORTH SEA NORWAY  
3RD MARCH 1983  
NR-MS-30008

D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, FINAL BUILD UP

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
26.48	8651.254	310.6	5:59	6/ 3/83
26.55	8651.254	310.6	6: 3	
26.62	8651.254	310.6	6: 7	
26.68	8651.254	310.6	6:11	
26.75	8651.737	310.6	6:15	
26.82	8650.771	310.6	6:19	
26.88	8651.254	310.6	6:23	
26.95	8651.737	310.6	6:27	
27.02	8651.737	310.6	6:31	
27.08	8651.737	310.6	6:35	
27.15	8651.737	310.6	6:39	
27.22	8651.737	310.6	6:43	
27.28	8651.737	310.6	6:47	
27.35	8652.219	310.6	6:51	
27.42	8652.219	310.6	6:55	
27.48	8652.219	310.6	6:59	
27.55	8652.702	310.6	7: 3	
27.62	8652.219	310.6	7: 7	
27.68	8652.219	310.6	7:11	
27.75	8652.219	310.6	7:15	
27.82	8652.219	310.6	7:19	
27.88	8652.219	310.6	7:23	
27.95	8652.702	310.6	7:27	
28.02	8652.702	310.6	7:31	
28.08	8652.702	310.6	7:35	
28.15	8652.702	310.6	7:39	
28.22	8652.702	310.6	7:43	
28.28	8652.702	310.6	7:47	
28.35	8652.702	310.6	7:51	
28.42	8653.185	310.6	7:55	

SHEARED APR"M"



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ELF AQUITAINE NORGE A/S  
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NORTH SEA NORWAY  
3RD MARCH 1983  
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D.S.T. NO 3A, MK 1 GAUGE NO 0184, SENSING DEPTH 4151.81 METRES, CIRCULATING

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	8653.185	310.6	7:55	6/ 3/83 REVERSE CIRCULATING
0.07	7025.862	310.6	7:59	
0.13	8275.198	311.3	8: 3	
0.20	8444.158	310.6	8: 7	
0.27	8505.949	310.6	8:11	
0.33	8539.741	310.6	8:15	
0.40	8561.464	310.6	8:19	
0.47	8574.015	310.6	8:23	
0.53	8585.601	310.6	8:27	END OF RECORDINGS

ELF AQUITANE NORGE A/S  
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D.S.T. NO 9A  
NORTH SEA NORWAY

Oil Sperry-Sun, Inc.  
PRESSURE/TEMP. V<sub>s</sub> TIME PLOT

3RD MARCH 1983  
NR-MS-30000  
GAUGE NO 0104  
010170

