



PRESSURE TEST DATA SUMMARY

COMPANY: ELF AQUITAINE NORGE A/S DATE: 3 March 1983

FIELD: EXPLORATION WELL NO: 1/3 - 3 JOB NO: NR-MS-30008
NR-XS-30009

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. MK I NO. 0184 _____ MK III NO. 0119

PRESSURE SENSING DEPTH 4151.81 METRES _____ 4195.63 METRES

ELEMENT SIZE 10,000 PSI _____ 10,000 PSI

TIME MODE 4 MIN. + 17 HR. DELAY _____ 4 MIN. + 17 HR.

BATTERY TYPE SILVER OXIDE _____ DELAY

(VARTA)

(MALLORY)

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

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

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
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0.00	8988.208	307.0	15:43
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

4/ 3/83 INITIAL STATIC

OPENED APR"N" & BUBBLE HOSE

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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
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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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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
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

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CLOSED CHOKE MANIFOLD

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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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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	

CLOSED APR"N"

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NORTH SEA NORWAY
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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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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	
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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3RD MARCH 1983
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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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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; 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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NORTH SEA NORWAY
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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	
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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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	
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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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, 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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SPERRY-SUN INTERNATIONAL INC.
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NORTH SEA NORWAY
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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	

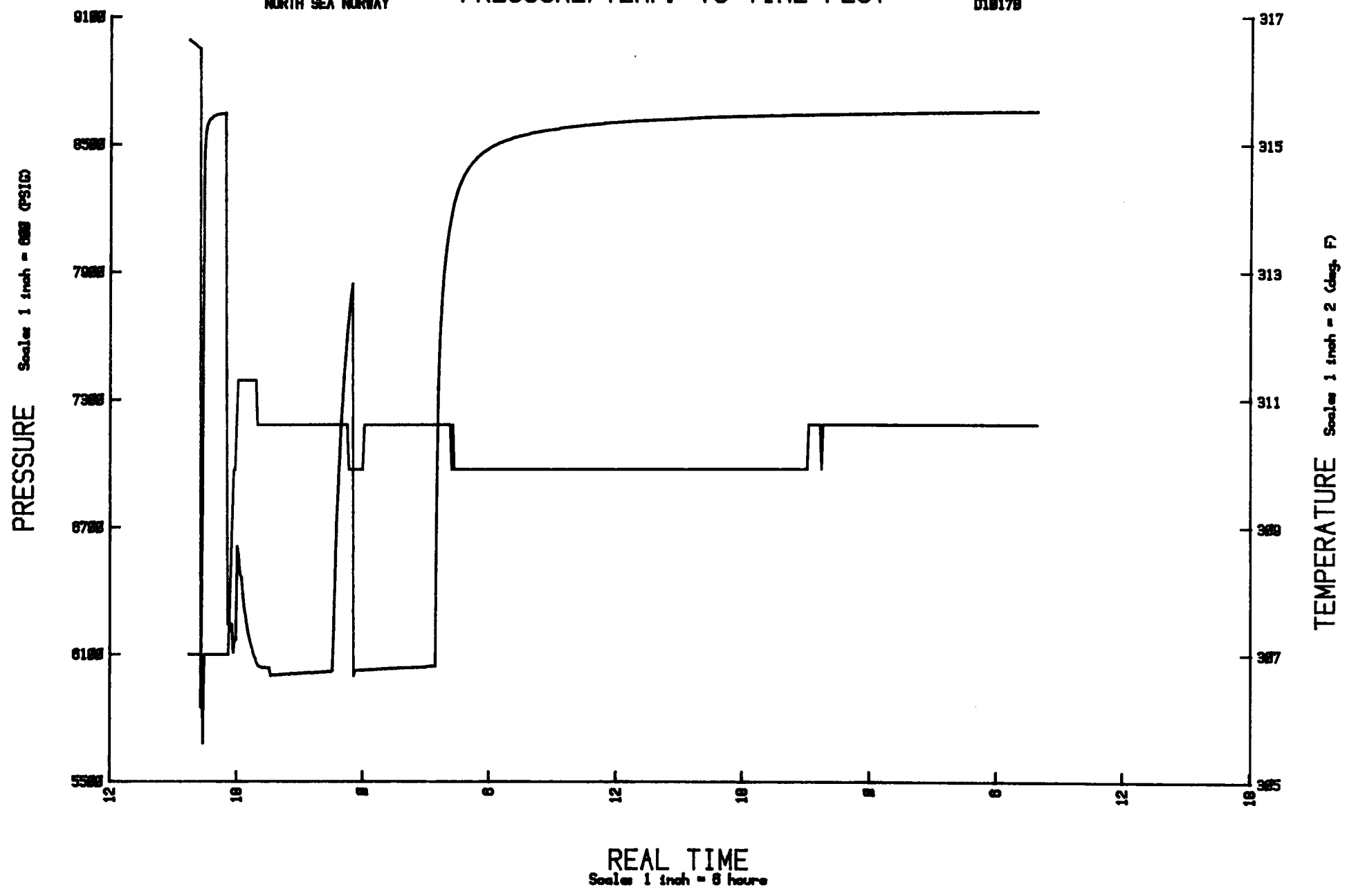
END OF RECORDINGS

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

ONL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

3RD MARCH 1983
NR-MS-30203
GAUGE NO 8184
D18179



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NORTH SEA NORWAY
12TH MARCH 1983
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D.S.T. NO 3B, MK3 GAUGE NO 0123, SENSING DEPTH 4146.38 METRES, INITIAL FLOW.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	9274.045	299.8	10:51	12/ 3/83 INITIAL HYDROSTATIC
0.07	9284.828	299.8	10:55	
0.13	9286.121	299.8	10:59	
0.20	9275.770	299.8	11: 3	
0.27	9286.121	299.8	11: 7	
0.33	9283.534	299.8	11:11	
0.40	9290.003	299.8	11:15	
0.47	9289.141	299.8	11:19	SET PACKER
0.53	9294.317	299.8	11:23	
0.60	9332.274	299.8	11:27	
0.67	7319.268	299.8	11:31	OPENED APR"N"

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NORTH SEA NORWAY
12TH MARCH 1983
NR-MS-30008

D.S.T. NO 3B, MK3 GAUGE NO 0123, SENSING DEPTH 4146.38 METRES, INITIAL BUILD UP.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	7319.268	299.8	11:31	12/ 3/83 WELL SHUT IN
0.07	8482.027	300.7	11:35	
0.13	8624.579	300.7	11:39	
0.20	8641.378	300.7	11:43	
0.27	8647.408	300.7	11:47	
0.33	8649.131	300.7	11:51	
0.40	8649.131	300.7	11:55	
0.47	8649.993	300.7	11:59	
0.53	8651.285	300.7	12: 3	
0.60	8652.577	300.7	12: 7	
0.67	8653.439	300.7	12:11	
0.73	8654.300	300.7	12:15	
0.80	8655.162	300.7	12:19	
0.87	8655.592	300.7	12:23	
0.93	8656.454	300.7	12:27	
1.00	8657.315	300.7	12:31	
1.07	8657.746	300.7	12:35	END OF BUILD UP

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NORTH SEA NORWAY
11TH MARCH 1983
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D.S.T. NO 3B, MK3 GAUGE NO 0123, SENSING DEPTH 4146.38 METRES, MAIN FLOW.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
0.00	8657.746	300.7	12:35	12/ 3/83 OPENED APR"N"
0.07	5973.888	301.6	12:39	OPENED C/M ON 1/4" FIXED CHOKE
0.13	6001.489	300.7	12:43	
0.20	6692.712	30.2	12:47	
0.27	6023.694	302.4	12:51	
0.33	6006.122	302.4	12:55	
0.40	5989.668	303.3	12:59	
0.47	5977.503	304.2	13: 3	
0.53	5965.081	304.2	13: 7	
0.60	5947.184	305.0	13:11	
0.67	5931.338	305.0	13:15	
0.73	5915.336	305.9	13:19	
0.80	5900.779	305.9	13:23	
0.87	5887.935	305.9	13:27	
0.93	5874.513	306.8	13:31	
1.00	5861.672	306.8	13:35	
1.07	5849.260	306.8	13:39	
1.13	5833.424	306.8	13:43	
1.20	5815.990	307.6	13:47	
1.27	5801.442	307.6	13:51	
1.33	5773.629	307.6	13:55	
1.40	5765.928	307.6	13:59	
1.47	5743.554	308.5	14: 3	
1.53	5725.589	308.5	14: 7	
1.60	5706.768	308.5	14:11	
1.67	5688.804	308.5	14:15	
1.73	5663.460	309.4	14:19	
1.80	5643.363	309.4	14:23	
1.87	5623.266	309.4	14:27	
1.93	5601.032	309.4	14:31	
2.00	5564.263	309.4	14:35	
2.07	5549.461	310.2	14:39	
2.13	5521.678	310.2	14:43	
2.20	5495.606	310.2	14:47	
2.27	5468.253	310.2	14:51	
2.33	5441.328	310.2	14:55	
2.40	5414.347	311.1	14:59	
2.47	5388.285	311.1	15: 3	
2.53	5362.652	311.1	15: 7	
2.60	5331.040	311.1	15:11	
2.67	5298.539	312.0	15:15	
2.73	5269.926	312.0	15:19	
2.80	5234.909	312.0	15:23	
2.87	5201.176	312.0	15:27	
2.93	5167.871	312.0	15:31	
3.00	5136.703	312.0	15:35	
3.07	5101.509	312.8	15:39	
3.13	5058.827	312.8	15:43	
3.20	5013.587	312.8	15:47	
3.27	4982.007	312.8	15:51	

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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
11TH MARCH 1983
NR-MS-30008

D.S.T. NO 3B, MK3 GAUGE NO 0123, SENSING DEPTH 4146.38 METRES, MAIN FLOW.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
3.33	4958.110	312.8	15:55	12/ 3/83
3.40	4948.758	313.7	15:59	
3.47	4971.797	313.7	16: 3	
3.53	4972.224	313.7	16: 7	
3.60	4959.424	313.7	16:11	
3.67	4959.424	313.7	16:15	
3.73	4949.220	314.6	16:19	
3.80	4936.424	314.6	16:23	
3.87	4923.202	314.6	16:27	
3.93	4920.216	314.6	16:31	
4.00	4933.865	314.6	16:35	
4.07	4944.102	314.6	16:39	
4.13	4877.615	315.5	16:43	INCREASED TO 3/8" ADJ CHOKE
4.20	4907.464	315.5	16:47	
4.27	4838.388	315.5	16:51	CHANGED TO 3/8" FIXED CHOKE
4.33	4675.540	315.5	16:55	CHANGED TO 3/8" ADJ CHOKE
4.40	4664.884	315.5	16:59	
4.47	4683.639	315.5	17: 3	
4.53	4712.198	315.5	17: 7	
4.60	4750.137	315.5	17:11	
4.67	4681.824	316.3	17:15	INCREASED TO 1/2" FIXED CHOKE
4.73	4263.060	316.3	17:19	
4.87	3845.037	316.3	17:27	
4.93	3712.288	316.3	17:31	
5.00	3610.621	316.3	17:35	
5.07	3528.960	316.3	17:39	
5.13	3471.550	316.3	17:43	
5.27	3364.769	317.2	17:51	
5.33	3342.241	317.2	17:55	
5.40	3319.714	317.2	17:59	
5.47	3326.090	317.2	18: 3	
5.53	3346.917	317.2	18: 7	FLOWED THROUGH HEATER
5.60	3374.121	317.2	18:11	
5.67	3377.522	317.2	18:15	
5.73	3387.298	317.2	18:19	
5.80	3356.693	317.2	18:23	
5.87	3325.240	317.2	18:27	
5.93	3357.968	317.2	18:31	
6.00	3377.097	317.2	18:35	
6.07	3385.173	317.2	18:39	
6.20	3428.108	317.2	18:47	
6.27	3406.428	317.2	18:51	
6.33	3389.362	318.1	18:55	
6.40	3405.937	318.1	18:59	
6.47	3443.764	318.1	19: 3	
6.53	3400.412	318.1	19: 7	
6.60	3390.637	318.1	19:11	
6.67	3364.288	318.1	19:15	
6.73	3353.239	318.1	19:19	
6.80	3347.714	318.1	19:23	

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SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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NORTH SEA NORWAY
11TH MARCH 1983
NR-MS-30008

D.S.T. NO 3B, MK3 GAUGE NO 0123, SENSING DEPTH 4146.38 METRES, MAIN FLOW.

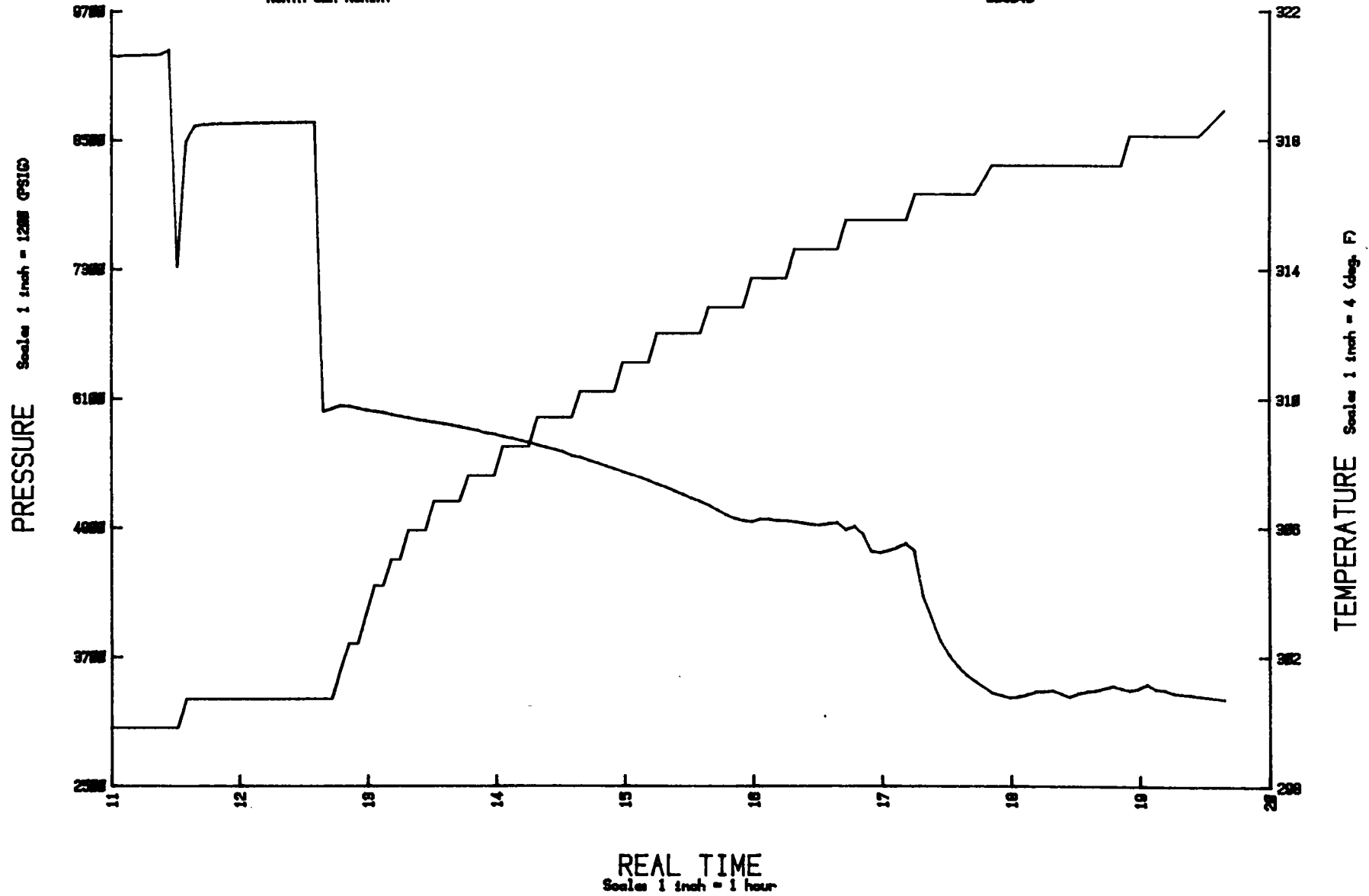
DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
6.87	3336.240	318.1	19:27	12/ 3/83
7.07	3307.493	318.9	19:39	END OF READINGS

ELF AQUITANE NORGE A/S
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D.S.T. NO 39
NORTH SEA NORWAY

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

11TH MARCH 1983
NR-MS-30000
GAUGE NO 0123
D80848



HEWLETT
PACKARD

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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	
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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SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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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)

0.000	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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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	
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

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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	
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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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	
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
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	
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	

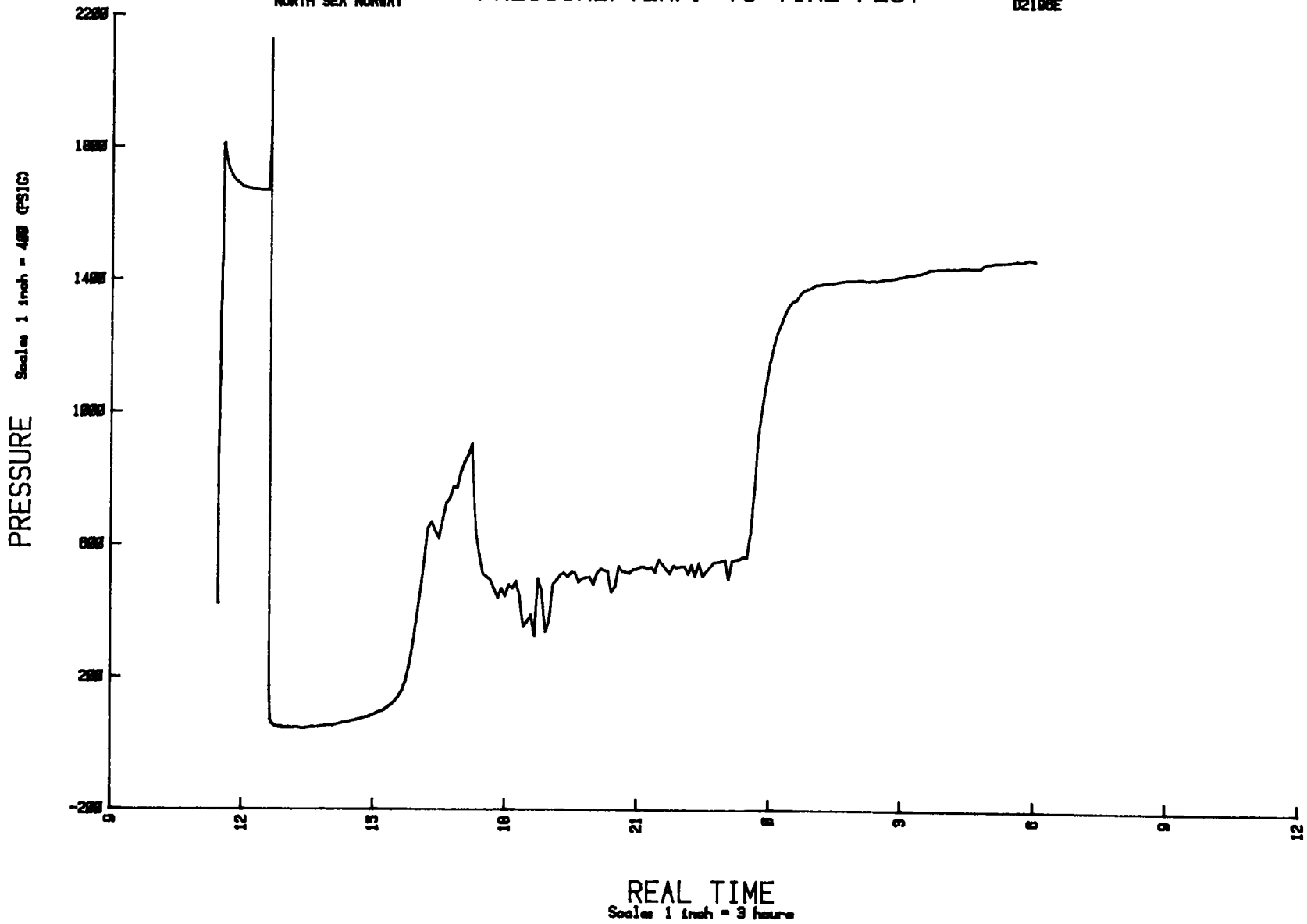
CLOSED APR"N" & CHOKE MANIFOLD

ELF AQUITANE NORGE A/S
1/3-3
D.S.T. NO 98
NORTH SEA NORWAY

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

12TH MARCH 1983
NR-XS-30000
SURFACE PROBE NO 2198
D2188E





PRESSURE TEST DATA SUMMARY

COMPANY: ELF AQUITAINE NORGE A/S DATE: 18 March 1983

NR-MS-30008

FIELD: EXPLORATION WELL NO: 1/3 - 3 JOB NO: NR-XS-30009

TEST TYPE: DST TEST NO: 3 RUN NO: B MAX B.H.T. 130 °F

PERFORATION INTERVAL: 4211 - 4214 METRES ZONE: _____

	TOP	MIDDLE	BOTTOM
GAUGE TYPE/NO.	<u>MK I NO. 0119</u>	_____	<u>MK III NO. 0123</u>
PRESSURE SENSING DEPTH	<u>4187.68 METRES</u>	_____	<u>4146.38 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 (MERCURY)</u>	_____	<u>SILVER OXIDE (VARTA)</u>

EVENT	SURFACE TIMES & DATES	TEMP.	°F
PACKER SET AT 4178.41 METRES	11:17	12 March 1983	
OPENED APR 'N' & BUBBLE HOSE	11:28		
CLOSED APR 'N'	11:33		
OPENED APR 'N'	12:37		
OPENED CHOKE MANIFOLD 1/4 " FIXED CHOKE	12:38		
INCREASED TO 3/8" ADJ CHOKE	16:40		
CHANGED TO 3/8" FIXED CHOKE	16:50		
CHANGED TO 3/8" ADJ CHOKE	16:55		
INCREASED 1/2" FIXED CHOKE	17:15		
FLOWED THROUGH HEATER	18:05		
FLOWED THROUGH SEPARATOR	20:00		
DECREASED TO 1/4" ADJ CHOKE	23:33		
CHANGED TO 1/4" FIXED CHOKE	23:45		
CLOSED APR 'N' & CHOKE	06:00	13 March 1983	
SHEARED APR 'M'	13:02	14 March 1983	
UNSEATED PACKER	13:35		

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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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 38, 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 INITIAL FLOW
0.017	1939.0	11:29	
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 INITIAL BUILD UP
0.200	4.0	11:40	
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 MAIN FLOW
1.167	1758.0	12:38	
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	

3/19/83

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 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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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	
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	

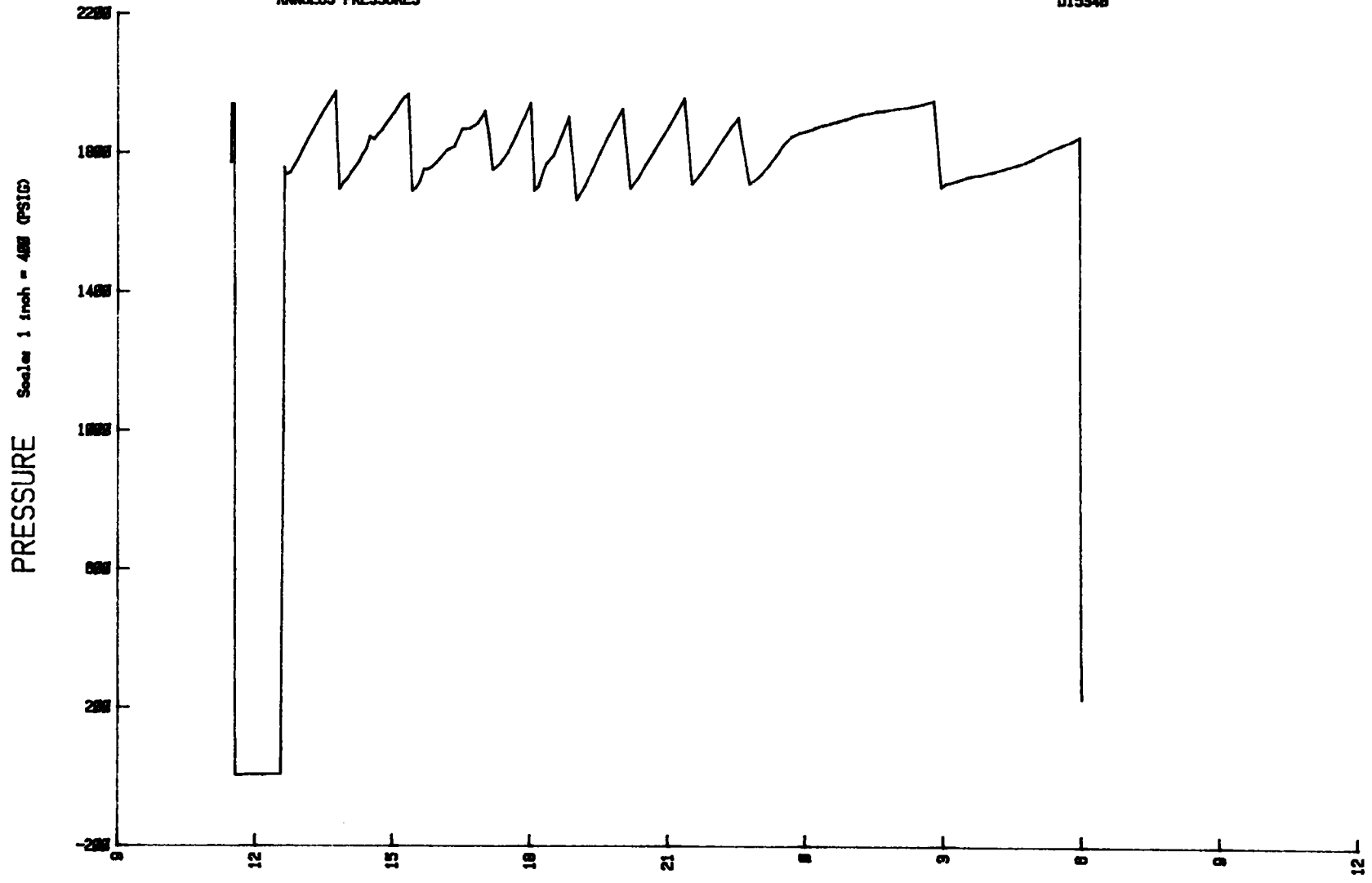
APR"N" CLOSED FOR
MAIN BUILD UP

ELF AQUITANE NORGE A/S
1/3-3
D.S.T. NO 98
ANNULUS PRESSURES

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

12TH MARCH 1983
NR-XS-30000
SURFACE PROBE NO 1534
D1534B



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 0623, SEPERATOR PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME
---------------------	----------------------------	----------------	------

0.000	35.0	40.0	20: 0
0.083	70.0	39.8	20: 5
0.167	208.0	40.4	20:10
0.250	64.0	41.0	20:15
0.333	78.0	41.9	20:20
0.417	86.0	42.8	20:25
0.500	90.0	43.6	20:30
0.583	87.0	44.6	20:35
0.667	96.0	45.9	20:40
0.750	96.0	47.1	20:45
0.833	98.0	47.9	20:50
0.917	87.0	49.2	20:55
1.000	98.0	50.1	21: 0
1.083	90.0	51.2	21: 5
1.167	97.0	52.6	21:10
1.250	96.0	55.0	21:15
1.333	97.0	56.7	21:20
1.417	96.0	56.4	21:25
1.500	100.0	57.9	21:30
1.583	99.0	60.1	21:35
1.667	96.0	61.6	21:40
1.750	89.0	66.9	21:45
1.833	98.0	42.8	21:50
1.917	96.0	66.7	21:55
2.000	97.0	94.3	22: 0
2.083	97.0	108.1	22: 5
2.167	106.0	118.4	22:10
2.250	98.0	121.0	22:15
2.333	90.0	121.8	22:20
2.417	83.0	121.7	22:25
2.500	90.0	120.8	22:30
2.750	101.0	122.0	22:45
2.917	105.0	126.9	22:55
3.000	106.0	129.2	23: 0
3.083	107.0	131.0	23: 5
3.167	106.0	131.3	23:10
3.250	106.0	133.1	23:15
3.333	103.0	133.6	23:20
3.417	105.0	134.7	23:25
3.500	105.0	135.5	23:30
3.583	45.0	134.5	23:35
3.667	38.0	123.7	23:40
3.750	18.0	111.9	23:45
3.833	184.0	119.1	23:50
3.917	192.0	134.1	23:55
4.000	241.0	143.4	0: 0
4.083	251.0	146.7	0: 5
4.167	273.0	143.2	0:10
4.250	287.0	138.8	0:15
4.333	293.0	132.8	0:20

12/ 3/83 FLOWING THROUGH
SEPERATOR ON 1/2" CHOKE

TEMPERATURE PROBE SWITCHED
TO GAS LINE

DECREASED TO 1/4" ADJ CHOKE

CHANGED TO 1/4" FIXED CHOKE

13/ 3/83

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SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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ELF AQUITAINE NORGE A/S
EXPLORATION
1/3-3NORTH SEA NORWAY
12TH MARCH 1983
NR-XS-30009

D.S.T. NO 3B, SURFACE PROBE NO 0623, SEPERATOR PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
4.417	284.0	128.8	0:25	13/ 3/83
4.500	296.0	126.6	0:30	
4.583	295.0	126.8	0:35	
4.667	301.0	128.0	0:40	
4.750	300.0	129.5	0:45	
4.833	288.0	129.7	0:50	
4.917	295.0	169.8	0:55	
5.000	318.0	129.4	1: 0	
5.083	316.0	128.5	1: 5	
5.167	332.0	127.7	1:10	
5.250	331.0	127.2	1:15	
5.333	328.0	126.6	1:20	
5.417	325.0	126.1	1:25	
5.500	324.0	126.0	1:30	
5.583	326.0	125.9	1:35	
5.667	327.0	125.8	1:40	
5.750	327.0	125.8	1:45	
5.833	330.0	126.1	1:50	
5.917	326.0	127.0	1:55	
6.000	327.0	127.3	2: 0	
6.083	330.0	127.2	2: 5	
6.167	328.0	127.4	2:10	
6.250	324.0	127.6	2:15	
6.333	321.0	127.8	2:20	
6.417	321.0	127.9	2:25	
6.500	322.0	127.6	2:30	
6.583	321.0	127.5	2:35	
6.667	323.0	127.2	2:40	
6.750	323.0	126.8	2:45	
6.833	322.0	126.3	2:50	
6.917	322.0	126.4	2:55	
7.000	326.0	126.2	3: 0	
7.083	324.0	126.2	3: 5	
7.167	327.0	126.3	3:10	
7.250	323.0	126.0	3:15	
7.333	323.0	125.7	3:20	
7.417	324.0	125.6	3:25	
7.500	324.0	125.6	3:30	
7.583	327.0	126.1	3:35	
7.667	319.0	125.6	3:40	
7.750	325.0	125.8	3:45	
7.833	324.0	126.3	3:50	
7.917	323.0	126.4	3:55	
8.000	324.0	126.3	4: 0	
8.083	324.0	126.7	4: 5	
8.167	325.0	126.5	4:10	
8.250	323.0	127.4	4:15	
8.333	322.0	127.7	4:20	
8.417	328.0	127.0	4:25	
8.500	324.0	127.4	4:30	

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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 0623, SEPERATOR PRESSURE.

DELTA TIME HOURS	GAUGE PRESSURE (PSI)	TEMP. DEG F	TIME	
8.583	324.0	127.4	4:35	13/ 3/83
8.667	325.0	127.2	4:40	
8.750	327.0	127.5	4:45	
8.833	324.0	127.4	4:50	
8.917	318.0	127.1	4:55	
9.000	336.0	128.6	5: 0	
9.083	333.0	128.3	5: 5	
9.167	333.0	127.9	5:10	
9.333	331.0	128.5	5:20	
9.417	332.0	128.8	5:25	
9.500	329.0	128.5	5:30	
9.583	329.0	128.2	5:35	
9.667	332.0	128.1	5:40	
9.750	330.0	127.8	5:45	
9.833	334.0	127.9	5:50	
9.917	315.0	126.2	5:55	
10.000	314.0	123.5	6: 0	WELL SHUT IN

ELF AQUITANE NORGE A/S
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D.S.T. NO 98
SEPERATOR PRESSURES

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

12TH MARCH 1989
NR-X9-80000
SURFACE GAUGE NO 8629
D00298

