Denne rapport tilhører
STATOIL
L&U DOK. SENTER
L. NR. 302835100 15
KODE Well 31/3-1 nr. 15
Returneres etter bruk

NL

sperry-sun

Pressure Survey Report
for
Statoil
Well No. 31/3-1
21 September 1983
Test No. 1 Run No. 2
Downhole & Surface Data.

Pressure Survey Report
for
Statoil
Well No. 31/3-1
21 September 1983
Test No. 1 Run No. 2
Downhole & Surface Data.

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

CHECK PRESSURES SHEET.

GAUGETYPE/ NO:	MKIIIA 0106	MR-6	MR-6
TIME MODE	2 MIN	-	-
ELEMENT SIZE	10 K	10 K	5 K
DEPTH(M.RKB)	1489.54	UPSTREAM	DOWNSTREAM
MAX. TEMP.(Deg C)	60.9	28.4	15.3

END OF EVENT	TIME/DATE	PRESSURE (Bars Abs.)	PRESSURE (Bars Abs.)	PRESSURE (Bars Abs.)
INITIAL STATIC	10:11:30 21/09/83	154.184	32.798	N/A
1st FLOW	01:17:45 22/09/83	100.307	33.281	27.834
1st BUILD-UP	07:45:00 "	157.035	91.679	N/A
ACID INJECTION	09:12:00 "	154.109	32.384	N/A
2nd FLOW	18:29:50 "	128.066	44.037	36.452
2nd BUILD-UP	00:50:00 23/09/83	157.065	117.948	N/A

SPERRY-SUN ENGINEER : P J Weatherill.

GAUGE PERFORMANCE REPORT -

MKIIIA 0106-2241 - Performed perfectly for duration of test.

TEST NO.1, RUN NO.2. SEQUENCE OF EVENTS.

		POST GRAVEL PACK TEST
21/09/83	02:43	ACTIVATE GAUGE NO. 0106
"	04:30	GAUGES IN STRING
"	04:54	RIH WITH GAUGES
"	05:18	GAUGES SEATED IN NIPPLE
"	07:55	DISPLACE TUBING WITH DIESEL
"	10:07	PRESSURE UP ANNULUS
"	10:09	OPEN PCT VALVE
"	10:11:30	WELL OPENED ON 28/64" ADJ. CHOKE
		INCREASE TO 48/64" ADJ. CHOKE
"	10:24	GAS TO SURFACE
"	10:46	DIRECT FLOW THRU HEATER ON 2x24/64" CHOKES
"	10:50	CHOKE MANIFOLD FULLY OPEN
"	11:02	DIRECT FLOW THRU SEPERATOR
"	11:45	INCREASE TO 2x28/64" CHOKES AT HEATER
"	12:15	" " 2x32/64" " " "
"	12:45	" " 2x40/64" " " "
"	13:16	" " 2x48/64" " " "
"	13:46	" " 2x64/64" " " "
"	14:17	" " 2x128/64" " " "
"	15:05	DECREASE TO 64/64" CHOKE AT MANIFOLD
"	15:06	BYPASS HEATER
"	15:22	CHANGE TO 64/64" ADJ. CHOKE AT MANIFOLD
"	15:31	CHANGE TO 64/64" FIXED CHOKE AT MANIFOLD
"	15:46	INCREASE TO 96/64" FIXED CHOKE AT MANIFOLD
"	19:45	DIRCT FLOW TO SURGE TANK FROM SEPERATOR
"	22:58	BYPASS SURGE TANK
22/09/83	01:16	BYPASS SEPERATOR
"	01:17	CLOSE CHOKE MANIFOLD
"	01:17:45	CLOSE PCT VALVE
		POST ACID TEST
22/09/83	09:12	WELL OPENED ON 48/64" ADJ. CHOKE AT MANIFOLD
"	09:33	DIRECT FLOWTHRU HEATER ON 2x28/64" CHOKES
"	09:35	INCREASE TO 128/64" CHOKE AT MANIFOLD
"	11:45	INCREASE TO 2x48/64" CHOKES AT HEATER
"	17:00	" " 2x128/64" " " "
"	17:25	BYPASS HEATER
"	17:57	DECREASE TO 96/64" FIXED CHOKE AT MANIFOLD
"	18:29:50	CLOSE CHOKE MANIFOLD & PCT VALVE
23/09/83	00:50	OPEN PCT VALVE (END OF TEST)

STATOIL
WELL NO: 31/3-1
TROLL

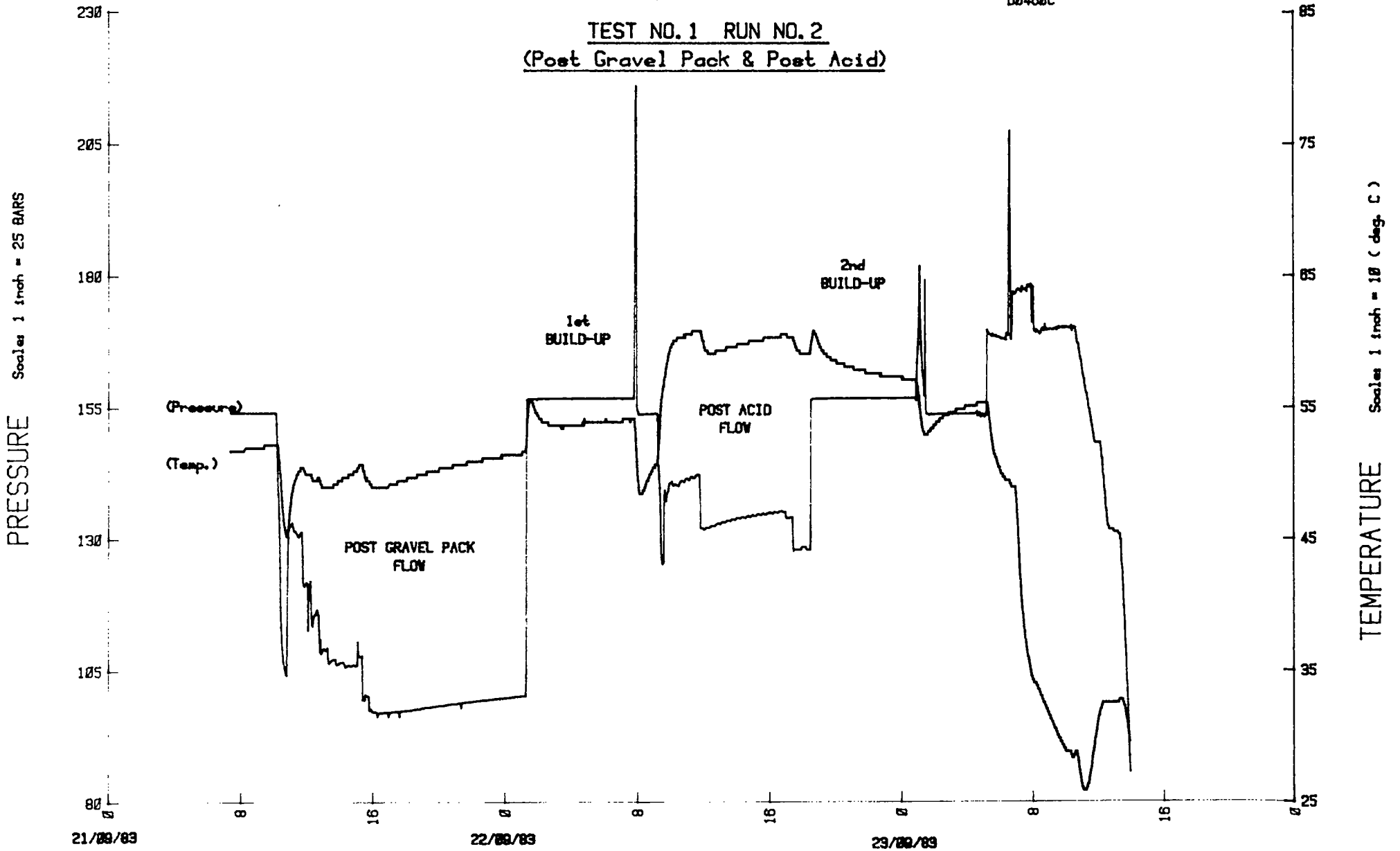
NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

21 SEPTEMBER 1983

MKIIIA Ø106-2241
DØ460C

TEST NO. 1 RUN NO. 2
(Post Gravel Pack & Post Acid)



MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106 SENSING DEPTH 1489.54 M. (INITIAL HYDROSTATIC).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	154.154	51.7	7:26	21/ 9/83 INITIAL HYDROSTATIC.
0.100	154.154	51.7	7:32	
0.133	154.154	51.7	7:34	
0.167	154.154	51.7	7:36	
0.200	154.154	51.7	7:38	
0.233	154.154	51.7	7:40	
0.267	154.154	51.7	7:42	
0.300	154.184	51.7	7:44	
0.333	154.169	51.7	7:46	
0.367	154.184	51.7	7:48	
0.400	154.169	51.7	7:50	
0.433	154.184	51.7	7:52	
0.467	154.184	51.7	7:54	DISPLACE TUBING WITH DIESEL.
0.500	154.184	51.7	7:56	
0.533	154.169	51.7	7:58	
0.567	154.184	51.7	8: 0	
0.600	154.184	51.7	8: 2	
0.633	154.184	51.7	8: 4	
0.667	154.184	51.7	8: 6	
0.700	154.184	51.7	8: 8	
0.733	154.184	51.7	8:10	
0.767	154.094	51.7	8:12	
0.800	154.184	51.7	8:14	
0.933	154.139	52.0	8:22	
0.967	154.154	52.0	8:24	
1.033	154.184	52.0	8:28	
1.067	154.169	52.0	8:30	
1.100	154.169	52.0	8:32	
1.133	154.169	52.0	8:34	
1.167	154.169	52.0	8:36	
1.200	154.169	52.0	8:38	
1.233	154.169	52.0	8:40	
1.267	154.169	52.0	8:42	
1.300	154.169	52.0	8:44	
1.333	154.169	52.0	8:46	
1.367	154.169	52.0	8:48	
1.400	154.169	52.0	8:50	
1.433	154.169	52.0	8:52	
1.467	154.184	52.0	8:54	
1.500	154.184	52.0	8:56	
1.533	154.169	52.0	8:58	
1.567	154.199	52.0	9: 0	
1.600	154.184	52.0	9: 2	
1.700	154.199	52.0	9: 8	
1.733	154.184	52.0	9:10	
1.767	154.199	52.0	9:12	
1.800	154.184	52.0	9:14	
1.833	154.199	52.0	9:16	
1.867	154.199	52.0	9:18	
1.900	154.199	52.0	9:20	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106 SENSING DEPTH 1489.54 M. (INITIAL HYDROSTATIC).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.933	154.199	52.0	9:22	21/ 9/83
1.967	154.199	52.0	9:24	
2.000	154.199	52.0	9:26	
2.033	154.214	52.0	9:28	
2.067	154.154	52.2	9:30	
2.100	154.229	52.2	9:32	
2.133	154.154	52.2	9:34	
2.167	154.154	52.2	9:36	
2.200	154.184	52.2	9:38	
2.233	154.184	52.2	9:40	
2.267	154.154	52.2	9:42	
2.300	154.154	52.2	9:44	
2.333	154.169	52.2	9:46	
2.367	154.184	52.2	9:48	
2.400	154.184	52.2	9:50	
2.467	154.184	52.2	9:54	
2.500	154.184	52.2	9:56	
2.533	154.184	52.2	9:58	
2.567	154.184	52.2	10: 0	
2.600	154.184	52.2	10: 2	
2.633	154.169	52.2	10: 4	
2.667	154.184	52.2	10: 6	
2.700	154.184	52.2	10: 8	END OF INITIAL HYDROSTATIC.

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
-0.058	154.184	52.2	10: 8	21/ 9/83	OPEN PCTV AT 10:09.
-0.025	154.154	52.2	10:10		INCREASE TO 48/64" ADJ.
0.008	152.053	52.2	10:12		CHOKE AT MANIFOLD.
0.042	146.771	52.2	10:14		
0.075	141.715	52.2	10:16		
0.108	138.864	52.2	10:18		
0.142	135.082	52.0	10:20		
0.175	132.423	51.5	10:22		
0.208	124.783	51.0	10:24		GAS TO SURFACE.
0.242	117.246	50.5	10:26		
0.275	113.294	50.0	10:28		
0.308	111.123	49.2	10:30		
0.342	109.555	48.7	10:32		
0.375	107.893	48.0	10:34		
0.408	106.775	47.5	10:36		
0.475	105.875	46.5	10:40		
0.508	105.391	46.3	10:42		
0.542	104.877	46.0	10:44		
0.575	104.438	45.8	10:46		DIRECT FLOW THRU HEATER
0.608	104.254	45.5	10:48		ON 2 X 24/64" CHOKES.
0.642	110.442	45.3	10:50		INCREASE TO 128/64" CHOKE
0.675	125.487	45.3	10:52		AT MANIFOLD.
0.708	130.344	45.5	10:54		
0.742	131.908	45.8	10:56		
0.775	132.465	46.0	10:58		
0.808	132.632	46.5	11: 0		
0.842	132.680	47.0	11: 2		DIRECT FLOW THRU SEPERATOR.
0.875	132.712	47.5	11: 4		
0.908	132.999	47.7	11: 6		
0.942	133.152	48.2	11: 8		
0.975	132.868	48.5	11:10		
1.008	132.194	48.7	11:12		
1.042	131.730	49.0	11:14		
1.075	131.611	49.2	11:16		
1.108	131.642	49.2	11:18		
1.142	131.613	49.5	11:20		
1.242	131.030	49.7	11:26		
1.275	130.806	50.0	11:28		
1.308	130.596	50.0	11:30		
1.342	130.566	50.0	11:32		
1.375	130.733	50.2	11:34		
1.408	131.003	50.2	11:36		
1.442	131.198	50.2	11:38		
1.475	131.409	50.2	11:40		
1.508	131.485	50.5	11:42		
1.542	131.440	50.5	11:44		INCREASE TO 2 X 28/64"
1.575	126.863	50.5	11:46		CHOKES AT HEATER.
1.608	122.752	50.5	11:48		
1.642	121.357	50.5	11:50		
1.675	121.117	50.5	11:52		

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
1.708	121.339	50.2	11:54	21/ 9/83	
1.742	121.459	50.2	11:56		
1.775	121.669	50.2	11:58		
1.808	121.801	50.0	12: 0		
1.842	121.756	50.0	12: 2		
1.875	121.516	50.0	12: 4		
1.908	112.679	50.0	12: 6		
1.975	121.201	50.0	12:10		
2.008	121.456	50.0	12:12		
2.042	122.132	50.0	12:14		INCREASE TO 2 X 32/64"
2.075	119.220	50.0	12:16		CHOKES AT HEATER.
2.108	115.439	50.0	12:18		
2.142	113.789	50.0	12:20		
2.175	113.546	49.7	12:22		
2.208	114.341	49.7	12:24		
2.242	115.163	49.5	12:26		
2.275	115.538	49.5	12:28		
2.308	115.673	49.5	12:30		
2.342	115.688	49.5	12:32		
2.375	115.823	49.5	12:34		
2.408	116.213	49.5	12:36		
2.442	116.618	49.5	12:38		
2.475	116.228	49.5	12:40		
2.508	115.808	49.5	12:42		
2.542	115.586	49.7	12:44		INCREASE TO 2 X 40/64"
2.575	112.720	49.7	12:46		CHOKES AT HEATER.
2.608	108.580	49.7	12:48		
2.642	111.081	49.5	12:50		
2.675	108.246	49.5	12:52		
2.708	108.422	49.2	12:54		
2.742	108.662	49.2	12:56		
2.775	108.913	49.0	12:58		
2.808	109.123	49.0	13: 0		
2.842	109.258	49.0	13: 2		
2.875	109.273	49.0	13: 4		
2.908	109.138	49.0	13: 6		
2.942	109.003	49.0	13: 8		
2.975	108.943	49.0	13:10		
3.008	109.033	49.0	13:12		
3.042	109.213	49.0	13:14		
3.075	109.378	49.0	13:16		INCREASE TO 2 X 48/64"
3.108	107.488	49.0	13:18		CHOKES AT HEATER.
3.142	106.542	49.0	13:20		
3.175	106.497	49.0	13:22		
3.208	106.617	49.0	13:24		
3.242	106.722	49.0	13:26		
3.275	106.858	49.0	13:28		
3.308	106.993	49.0	13:30		
3.342	107.053	49.0	13:32		
3.408	107.158	49.0	13:36		

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
3.442	107.203	49.0	13:38	21/ 9/83	
3.475	107.233	49.0	13:40		
3.508	107.207	49.2	13:42		
3.542	107.192	49.2	13:44		
3.575	107.252	49.2	13:46		INCREASE TO 2 X 64/64"
3.608	106.486	49.2	13:48		CHOKES AT HEATER.
3.642	106.231	49.2	13:50		
3.675	106.291	49.2	13:52		
3.708	106.381	49.2	13:54		
3.742	106.381	49.2	13:56		
3.775	106.400	49.5	13:58		
3.808	106.550	49.5	14: 0		
3.842	106.580	49.5	14: 2		
3.875	106.610	49.5	14: 4		
3.908	106.610	49.5	14: 6		
3.942	106.655	49.5	14: 8		
3.975	106.670	49.5	14:10		
4.008	106.670	49.5	14:12		
4.042	106.629	49.7	14:14		INCREASE TO 2 X 128/64"
4.142	106.089	49.7	14:20		CHOKES AT HEATER.
4.175	105.819	49.7	14:22		
4.208	105.849	49.7	14:24		
4.242	105.924	49.7	14:26		
4.275	105.984	49.7	14:28		
4.308	106.059	49.7	14:30		
4.342	106.119	49.7	14:32		
4.375	106.149	49.7	14:34		
4.408	106.063	50.0	14:36		
4.442	106.048	50.0	14:38		
4.475	105.988	50.0	14:40		
4.508	105.988	50.0	14:42		
4.542	106.018	50.0	14:44		
4.575	106.108	50.0	14:46		
4.608	106.153	50.0	14:48		
4.642	106.198	50.0	14:50		
4.675	106.183	50.0	14:52		
4.708	106.098	50.2	14:54		
4.742	106.068	50.2	14:56		
4.775	106.128	50.2	14:58		
4.808	106.068	50.2	15: 0		
4.842	106.098	50.2	15: 2		
4.875	106.098	50.2	15: 4		DECREASE TO 64/64" CHOKE
4.908	110.582	50.2	15: 6		AT MANIFOLD
4.942	108.216	50.5	15: 8		& BYPASS HEATER.
4.975	107.826	50.5	15:10		
5.008	107.826	50.5	15:12		
5.042	107.785	50.7	15:14		
5.075	107.785	50.7	15:16		
5.108	107.815	50.7	15:18		
5.142	107.845	50.7	15:20		

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.175	107.905	50.7	15:22	21/ 9/83 CHANGE TO 64/64" ADJ. CHOKE.
5.208	99.569	50.7	15:24	
5.242	100.048	50.7	15:26	
5.275	99.939	50.5	15:28	
5.308	99.529	50.2	15:30	CHANGE TO 64/64" FIXED CHOKE.
5.342	99.589	50.2	15:32	
5.375	100.514	50.0	15:34	
5.408	100.374	49.7	15:36	
5.442	100.344	49.7	15:38	
5.475	100.295	49.5	15:40	
5.508	100.164	49.7	15:42	
5.542	100.175	49.5	15:44	
5.575	100.055	49.5	15:46	INCREASE TO 96/64" FIXED CHOK
5.608	97.505	49.5	15:48	
5.642	97.850	49.5	15:50	
5.675	97.560	49.2	15:52	
5.708	97.650	49.2	15:54	
5.742	97.530	49.2	15:56	
5.775	97.350	49.2	15:58	
5.808	97.315	49.0	16: 0	
5.842	97.270	49.0	16: 2	
5.875	97.225	49.0	16: 4	
5.908	97.195	49.0	16: 6	
5.942	97.240	49.0	16: 8	
5.975	97.210	49.0	16:10	
6.008	97.165	49.0	16:12	
6.042	97.120	49.0	16:14	
6.075	97.090	49.0	16:16	
6.108	96.340	49.0	16:18	
6.208	97.090	49.0	16:24	
6.242	97.060	49.0	16:26	
6.275	97.090	49.0	16:28	
6.308	97.060	49.0	16:30	
6.342	97.030	49.0	16:32	
6.375	97.060	49.0	16:34	
6.408	97.060	49.0	16:36	
6.442	97.075	49.0	16:38	
6.475	97.075	49.0	16:40	
6.508	97.180	49.0	16:42	
6.542	97.180	49.0	16:44	
6.575	97.150	49.0	16:46	
6.608	97.180	49.0	16:48	
6.642	97.180	49.0	16:50	
6.675	97.180	49.0	16:52	
6.708	97.180	49.0	16:54	
6.742	97.180	49.0	16:56	
6.775	96.370	49.0	16:58	
6.875	97.185	49.2	17: 4	
6.908	97.200	49.2	17: 6	
6.942	97.215	49.2	17: 8	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
6.975	97.260	49.2	17:10	21/ 9/83
7.008	97.260	49.2	17:12	
7.042	97.290	49.2	17:14	
7.075	97.290	49.2	17:16	
7.108	97.290	49.2	17:18	
7.142	97.320	49.2	17:20	
7.175	97.335	49.2	17:22	
7.208	97.320	49.2	17:24	
7.242	97.320	49.2	17:26	
7.275	97.350	49.2	17:28	
7.308	97.350	49.2	17:30	
7.342	97.380	49.2	17:32	
7.375	97.340	49.5	17:34	
7.408	97.340	49.5	17:36	
7.442	96.320	49.5	17:38	
7.475	97.370	49.5	17:40	
7.508	97.400	49.5	17:42	
7.542	97.430	49.5	17:44	
7.575	97.445	49.5	17:46	
7.608	97.430	49.5	17:48	
7.642	97.460	49.5	17:50	
7.675	97.460	49.5	17:52	
7.708	97.460	49.5	17:54	
7.742	97.490	49.5	17:56	
7.775	97.490	49.5	17:58	
7.808	97.520	49.5	18: 0	
7.842	97.550	49.5	18: 2	
7.875	97.550	49.5	18: 4	
7.908	97.565	49.5	18: 6	
7.942	97.555	49.7	18: 8	
7.975	97.540	49.7	18:10	
8.008	97.570	49.7	18:12	
8.042	97.600	49.7	18:14	
8.075	97.600	49.7	18:16	
8.142	97.585	49.7	18:20	
8.175	97.600	49.7	18:22	
8.208	97.660	49.7	18:24	
8.242	97.690	49.7	18:26	
8.275	97.720	49.7	18:28	
8.308	97.720	49.7	18:30	
8.342	97.780	49.7	18:32	
8.375	97.780	49.7	18:34	
8.408	97.780	49.7	18:36	
8.442	97.810	49.7	18:38	
8.475	97.810	49.7	18:40	
8.508	97.840	49.7	18:42	
8.542	97.830	50.0	18:44	
8.575	97.830	50.0	18:46	
8.608	97.800	50.0	18:48	
8.642	97.785	50.0	18:50	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
8.675	97.860	50.0	18:52	21/ 9/83
8.708	97.920	50.0	18:54	
8.742	97.935	50.0	18:56	
8.775	97.950	50.0	18:58	
8.808	97.980	50.0	19: 0	
8.842	97.980	50.0	19: 2	
8.875	98.025	50.0	19: 4	
8.908	98.040	50.0	19: 6	
8.942	98.070	50.0	19: 8	
8.975	98.085	50.0	19:10	
9.008	98.115	50.0	19:12	
9.042	98.115	50.0	19:14	
9.075	98.130	50.0	19:16	
9.108	98.145	50.0	19:18	
9.142	98.119	50.2	19:20	
9.175	98.119	50.2	19:22	
9.208	98.149	50.2	19:24	
9.242	98.119	50.2	19:26	
9.275	98.164	50.2	19:28	
9.308	98.164	50.2	19:30	
9.342	98.209	50.2	19:32	
9.375	98.239	50.2	19:34	
9.408	98.254	50.2	19:36	
9.442	98.269	50.2	19:38	
9.475	98.299	50.2	19:40	
9.508	98.299	50.2	19:42	
9.542	98.299	50.2	19:44	
9.575	98.314	50.2	19:46	
9.608	98.329	50.2	19:48	
9.642	98.359	50.2	19:50	
9.675	98.374	50.2	19:52	
9.708	98.389	50.2	19:54	
9.742	98.419	50.2	19:56	
9.775	98.419	50.2	19:58	
9.842	98.449	50.2	20: 2	
9.875	98.439	50.5	20: 4	
9.908	98.469	50.5	20: 6	
9.942	98.469	50.5	20: 8	
10.042	98.499	50.5	20:14	
10.075	98.499	50.5	20:16	
10.108	98.499	50.5	20:18	
10.142	98.529	50.5	20:20	
10.175	98.529	50.5	20:22	
10.208	98.559	50.5	20:24	
10.242	98.589	50.5	20:26	
10.275	98.589	50.5	20:28	
10.308	98.634	50.5	20:30	
10.342	98.649	50.5	20:32	
10.375	98.649	50.5	20:34	
10.408	98.664	50.5	20:36	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
10.442	98.694	50.5	20:38	21/ 9/83
10.475	98.709	50.5	20:40	
10.508	98.709	50.5	20:42	
10.542	98.739	50.5	20:44	
10.608	98.784	50.5	20:48	
10.642	98.784	50.5	20:50	
10.675	98.769	50.5	20:52	
10.708	98.774	50.7	20:54	
10.742	98.789	50.7	20:56	
10.775	98.804	50.7	20:58	
10.808	98.819	50.7	21: 0	
10.842	98.819	50.7	21: 2	
10.875	98.849	50.7	21: 4	
10.908	98.849	50.7	21: 6	
10.942	98.849	50.7	21: 8	
10.975	98.909	50.7	21:10	
11.008	98.909	50.7	21:12	
11.042	98.909	50.7	21:14	
11.075	98.969	50.7	21:16	
11.108	98.969	50.7	21:18	
11.142	98.984	50.7	21:20	
11.175	98.024	50.7	21:22	
11.242	99.029	50.7	21:26	
11.275	99.044	50.7	21:28	
11.308	99.029	50.7	21:30	
11.342	99.059	50.7	21:32	
11.375	99.059	50.7	21:34	
11.408	99.089	50.7	21:36	
11.442	99.089	50.7	21:38	
11.475	99.119	50.7	21:40	
11.508	99.119	50.7	21:42	
11.542	99.119	50.7	21:44	
11.575	99.109	51.0	21:46	
11.608	99.124	51.0	21:48	
11.642	99.139	51.0	21:50	
11.675	99.139	51.0	21:52	
11.708	99.139	51.0	21:54	
11.742	99.184	51.0	21:56	
11.842	99.214	51.0	22: 2	
11.875	99.244	51.0	22: 4	
11.908	99.259	51.0	22: 6	
11.942	99.289	51.0	22: 8	
11.975	99.318	51.0	22:10	
12.008	99.318	51.0	22:12	
12.042	99.318	51.0	22:14	
12.075	99.348	51.0	22:16	
12.108	99.378	51.0	22:18	
12.142	99.378	51.0	22:20	
12.175	99.378	51.0	22:22	
12.208	99.378	51.0	22:24	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
12.242	99.408	51.0	22:26	21/ 9/83	
12.275	99.408	51.0	22:28		
12.308	99.438	51.0	22:30		
12.342	99.438	51.0	22:32		
12.408	99.483	51.0	22:36		
12.442	99.498	51.0	22:38		
12.475	99.498	51.0	22:40		
12.508	99.488	51.2	22:42		
12.542	99.488	51.2	22:44		
12.575	99.488	51.2	22:46		
12.608	99.488	51.2	22:48		
12.642	99.503	51.2	22:50		
12.675	99.548	51.2	22:52		
12.708	99.518	51.2	22:54		
12.742	99.548	51.2	22:56		
12.775	99.578	51.2	22:58		BYPASS TANK.
12.808	99.548	51.2	23: 0		
12.842	99.578	51.2	23: 2		
12.875	99.608	51.2	23: 4		
12.908	99.623	51.2	23: 6		
12.975	99.653	51.2	23:10		
13.008	99.653	51.2	23:12		
13.042	99.668	51.2	23:14		
13.075	99.698	51.2	23:16		
13.108	99.698	51.2	23:18		
13.142	99.698	51.2	23:20		
13.175	99.698	51.2	23:22		
13.208	99.728	51.2	23:24		
13.242	99.728	51.2	23:26		
13.275	99.728	51.2	23:28		
13.308	99.728	51.2	23:30		
13.342	99.773	51.2	23:32		
13.375	99.758	51.2	23:34		
13.408	99.788	51.2	23:36		
13.442	99.788	51.2	23:38		
13.475	99.818	51.2	23:40		
13.508	99.728	51.2	23:42		
13.542	99.863	51.2	23:44		
13.575	99.878	51.2	23:46		
13.608	99.893	51.2	23:48		
13.642	99.853	51.5	23:50		
13.675	99.908	51.2	23:52		
13.708	99.868	51.5	23:54		
13.742	99.898	51.5	23:56		
13.775	99.898	51.5	23:58		
13.808	99.928	51.5	0: 0	22/ 9/83	
13.842	99.928	51.5	0: 2		
13.875	99.928	51.5	0: 4		
13.908	99.928	51.5	0: 6		
13.942	99.958	51.5	0: 8		

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
13.975	99.988	51.5	0:10	22/ 9/83
14.008	99.958	51.5	0:12	
14.042	99.988	51.5	0:14	
14.075	99.988	51.5	0:16	
14.142	100.018	51.5	0:20	
14.175	100.033	51.5	0:22	
14.208	100.033	51.5	0:24	
14.242	100.078	51.5	0:26	
14.275	100.063	51.5	0:28	
14.308	100.078	51.5	0:30	
14.342	100.108	51.5	0:32	
14.375	100.108	51.5	0:34	
14.408	100.153	51.5	0:36	
14.442	100.198	51.5	0:38	
14.475	100.198	51.5	0:40	
14.508	100.198	51.5	0:42	
14.542	100.183	51.5	0:44	
14.575	100.183	51.5	0:46	
14.608	100.198	51.5	0:48	
14.675	100.228	51.5	0:52	
14.708	100.258	51.5	0:54	
14.742	100.273	51.5	0:56	
14.775	100.258	51.5	0:58	
14.808	100.288	51.5	1: 0	
14.842	100.303	51.5	1: 2	
14.875	100.288	51.5	1: 4	
14.908	100.262	51.7	1: 6	
14.942	100.277	51.7	1: 8	
14.975	100.277	51.7	1:10	
15.008	100.277	51.7	1:12	
15.042	100.292	51.7	1:14	
15.075	100.307	51.7	1:16	END OF FLOW PERIOD.

STATOIL
WELL NO: 31/2-1
TROLL

NL Sperry-Sun, Inc.

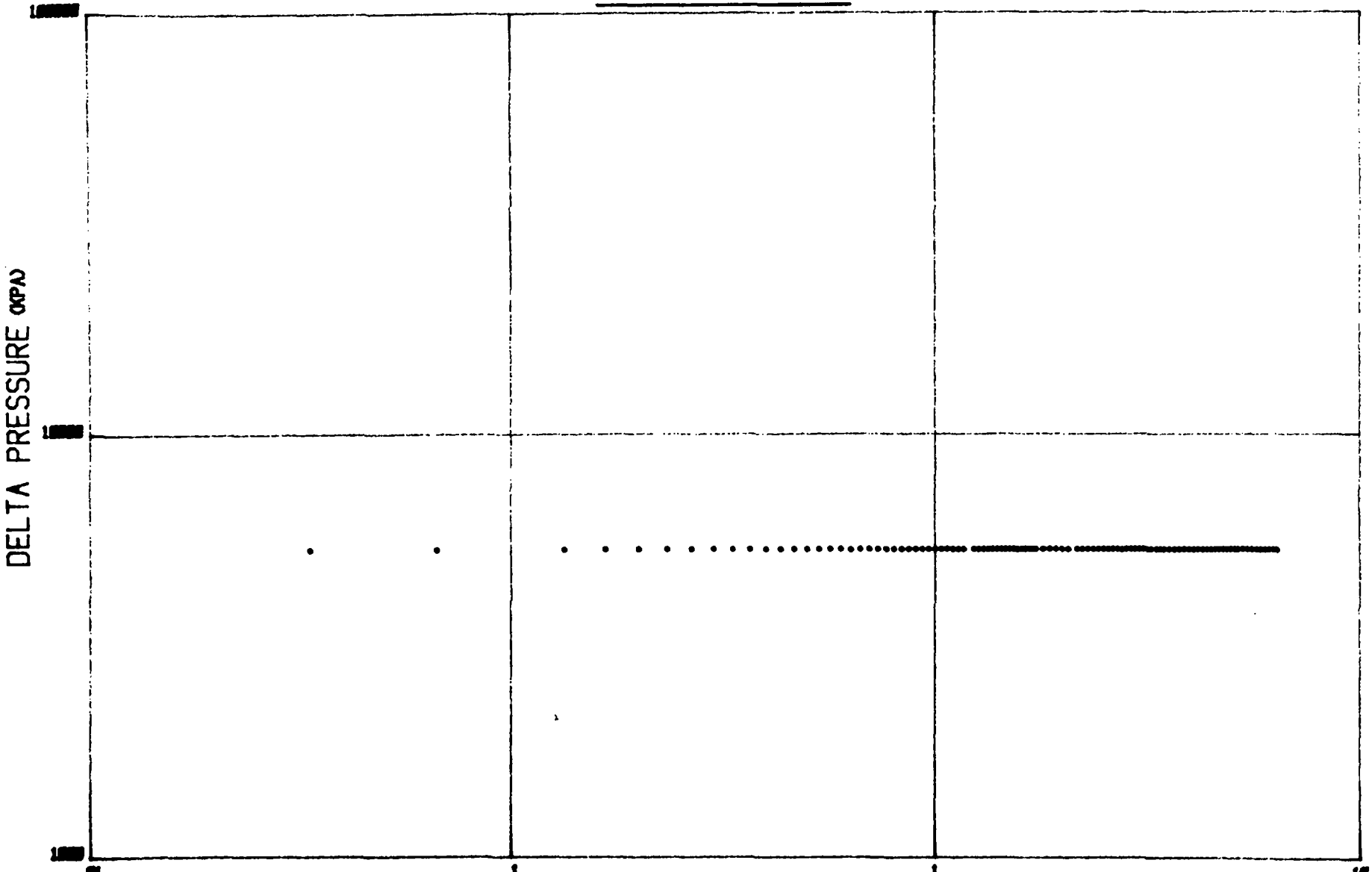
LOG(dP) Vs LOG(dT) PLOT

TEST NO. 1 RUN NO. 2

1st BUILD-UP PERIOD

21 SEPTEMBER 1989

MKIIIA 8180-2241
DS4680



DELTA TIME IS IN HOURS

SHUT-IN TIME = 1855 mins.
FINAL DELTA TIME = 1749 mins.

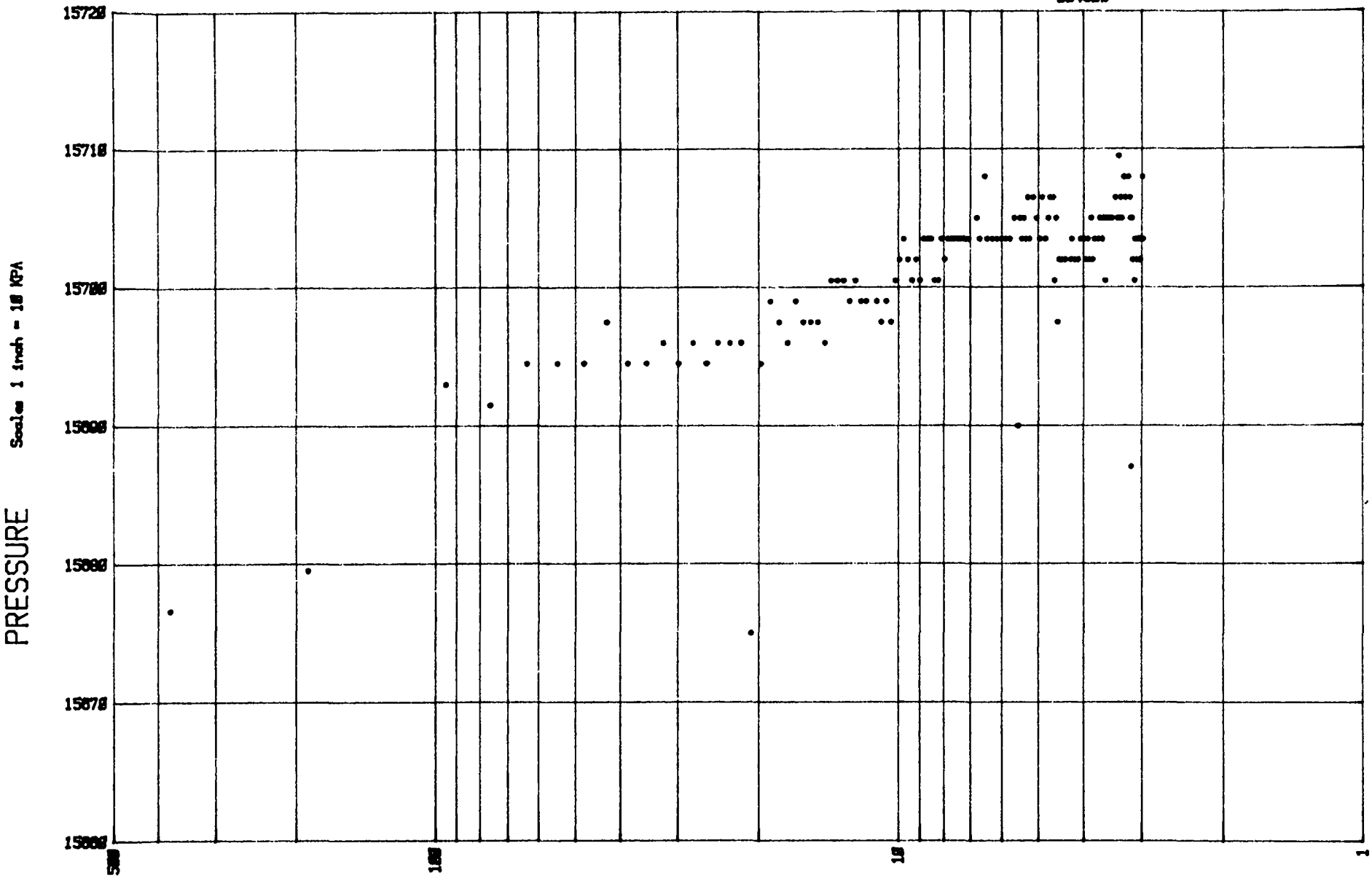
STATOIL
WELL NO: 31/3-1
TROLL

NL Sperry-Sun, Inc.

HORNER PLOT

21 SEPTEMBER 1993

MKIIIA 8188-2241
D84088



TEST NO. 1 RUN NO. 2 (Post Gravel Pack)
SHUT-IN TIME = 1355 mins.
FINAL DELTA TIME = 1743 mins.

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.029	100.307	51.7	1:16	22/ 9/83 CLOSE CHOKE MANIFOLD.
0.004	103.665	51.7	1:18	CLOSE PCT VALVE.
0.038	156.766	52.0	1:20	
0.071	156.795	53.0	1:22	
0.137	156.930	54.5	1:26	
0.171	156.915	55.2	1:28	
0.204	156.945	55.5	1:30	
0.238	156.945	55.7	1:32	
0.271	156.945	55.7	1:34	
0.304	156.975	55.7	1:36	
0.337	156.945	55.7	1:38	
0.371	156.945	55.7	1:40	
0.404	156.960	55.5	1:42	
0.437	156.945	55.5	1:44	
0.471	156.960	55.2	1:46	
0.504	156.945	55.2	1:48	
0.538	156.960	55.0	1:50	
0.571	156.960	55.0	1:52	
0.604	156.960	54.7	1:54	
0.637	156.750	54.7	1:56	
0.671	156.945	54.7	1:58	
0.704	156.990	54.5	2: 0	
0.738	156.975	54.5	2: 2	
0.771	156.960	54.5	2: 4	
0.804	156.990	54.2	2: 6	
0.837	156.975	54.2	2: 8	
0.871	156.975	54.2	2:10	
0.904	156.975	54.2	2:12	
0.937	156.960	54.2	2:14	
0.971	157.005	54.0	2:16	
1.004	157.005	54.0	2:18	
1.038	157.005	54.0	2:20	
1.071	156.990	54.0	2:22	
1.104	157.005	54.0	2:24	
1.137	156.990	54.0	2:26	
1.171	156.990	54.0	2:28	
1.238	156.990	54.0	2:32	
1.271	156.975	54.0	2:34	
1.304	156.990	54.0	2:36	
1.337	156.975	54.0	2:38	
1.371	157.005	53.7	2:40	
1.404	157.020	53.7	2:42	
1.437	157.035	53.7	2:44	
1.471	157.020	53.7	2:46	
1.504	157.005	53.7	2:48	
1.538	157.020	53.7	2:50	
1.571	157.005	53.7	2:52	
1.604	157.035	53.7	2:54	
1.637	157.035	53.7	2:56	
1.671	157.035	53.7	2:58	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.704	157.005	53.7	3: 0	22/ 9/83
1.738	157.005	53.7	3: 2	
1.771	157.035	53.7	3: 4	
1.804	157.020	53.7	3: 6	
1.837	157.035	53.7	3: 8	
1.871	157.035	53.7	3:10	
1.904	157.035	53.7	3:12	
1.937	157.035	53.7	3:14	
1.971	157.035	53.7	3:16	
2.004	157.035	53.7	3:18	
2.038	157.035	53.7	3:20	
2.071	157.035	53.7	3:22	
2.104	157.035	53.7	3:24	
2.171	157.050	53.5	3:28	
2.204	157.035	53.7	3:30	
2.238	157.035	53.7	3:32	
2.271	157.080	53.5	3:34	
2.304	157.035	53.7	3:36	
2.337	157.035	53.7	3:38	
2.371	157.035	53.7	3:40	
2.404	157.035	53.7	3:42	
2.437	157.035	53.7	3:44	
2.471	157.035	53.7	3:46	
2.504	157.035	53.7	3:48	
2.538	157.035	53.7	3:50	
2.571	157.035	53.7	3:52	
2.604	157.035	53.7	3:54	
2.637	157.035	53.7	3:56	
2.704	157.050	53.7	4: 0	
2.738	157.050	53.7	4: 2	
2.771	156.900	53.7	4: 4	
2.804	157.050	53.7	4: 6	
2.837	157.035	53.7	4: 8	
2.871	157.050	53.7	4:10	
2.904	157.035	53.7	4:12	
2.937	157.065	53.7	4:14	
2.971	157.035	53.7	4:16	
3.004	157.035	53.7	4:18	
3.038	157.065	53.7	4:20	
3.071	157.065	53.7	4:22	
3.104	157.050	53.7	4:24	
3.137	157.050	53.7	4:26	
3.171	157.035	53.7	4:28	
3.204	157.065	53.7	4:30	
3.238	157.065	53.7	4:32	
3.271	157.035	53.7	4:34	
3.337	157.050	53.7	4:38	
3.371	157.065	53.7	4:40	
3.404	157.065	53.7	4:42	
3.437	157.065	53.7	4:44	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.471	157.005	54.0	4:46	22/ 9/83
3.504	157.050	53.7	4:48	
3.538	156.975	54.2	4:50	
3.571	157.020	54.0	4:52	
3.604	157.020	54.0	4:54	
3.637	157.020	54.0	4:56	
3.671	157.020	54.0	4:58	
3.704	157.020	54.0	5: 0	
3.738	157.020	54.0	5: 2	
3.771	157.020	54.0	5: 4	
3.837	157.020	54.0	5: 8	
3.871	157.035	54.0	5:10	
3.904	157.035	54.0	5:12	
3.937	157.020	54.0	5:14	
3.971	157.020	54.0	5:16	
4.004	157.020	54.0	5:18	
4.038	157.020	54.0	5:20	
4.071	157.020	54.0	5:22	
4.104	157.035	54.0	5:24	
4.137	157.035	54.0	5:26	
4.171	157.035	54.0	5:28	
4.204	157.035	54.0	5:30	
4.238	157.020	54.0	5:32	
4.271	157.020	54.0	5:34	
4.304	157.035	54.0	5:36	
4.337	157.020	54.0	5:38	
4.371	157.020	54.0	5:40	
4.404	157.050	54.0	5:42	
4.437	157.020	54.0	5:44	
4.471	157.020	54.0	5:46	
4.504	157.035	54.0	5:48	
4.571	157.035	54.0	5:52	
4.604	157.035	54.0	5:54	
4.637	157.035	54.0	5:56	
4.671	157.050	54.0	5:58	
4.704	157.050	54.0	6: 0	
4.738	157.035	54.0	6: 2	
4.771	157.050	54.0	6: 4	
4.837	157.005	54.2	6: 8	
4.871	157.050	54.0	6:10	
4.904	157.050	54.0	6:12	
4.937	157.050	54.0	6:14	
4.971	157.050	54.0	6:16	
5.004	157.050	54.0	6:18	
5.038	157.050	54.0	6:20	
5.071	157.050	54.0	6:22	
5.104	157.050	54.0	6:24	
5.137	157.050	54.0	6:26	
5.171	157.065	54.0	6:28	
5.204	157.065	54.0	6:30	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST GRAVEL PACK BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
5.238	157.065	54.0	6:32	22/ 9/83	
5.271	157.050	54.0	6:34		
5.304	157.095	54.0	6:36		
5.337	157.050	54.0	6:38		
5.371	157.065	54.0	6:40		
5.404	157.065	54.0	6:42		
5.437	157.050	54.0	6:44		
5.471	157.050	54.0	6:46		
5.504	157.080	54.0	6:48		
5.538	157.065	54.0	6:50		
5.571	157.065	54.0	6:52		
5.604	157.065	54.0	6:54		
5.637	157.065	54.0	6:56		
5.671	157.080	54.0	6:58		
5.704	157.080	54.0	7: 0		
5.738	157.065	54.0	7: 2		
5.771	157.050	54.0	7: 4		
5.804	156.870	54.0	7: 6		
5.837	157.050	54.0	7: 8		
5.871	157.020	54.2	7:10		
5.904	157.020	54.2	7:12		
5.937	157.005	54.2	7:14		
5.971	157.035	54.2	7:16		
6.004	157.035	54.2	7:18		
6.038	157.020	54.2	7:20		
6.071	157.035	54.2	7:22		
6.104	157.035	54.2	7:24		
6.137	157.020	54.2	7:26		
6.171	157.035	54.2	7:28		
6.204	157.020	54.2	7:30		
6.238	157.035	54.2	7:32		
6.271	157.035	54.2	7:34		
6.304	157.080	54.0	7:36		
6.337	157.035	54.2	7:38		
6.371	157.035	54.2	7:40		
6.404	157.035	54.2	7:42		
6.437	157.035	54.2	7:44		OPEN PCT VALVE.
6.471	157.035	54.2	7:46		END OF BUILD-UP PERIOD

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-M8-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (ACID JOB).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	157.035	54.2	7:46	22/ 9/83 COMMENCE STIMULATION
0.033	158.324	54.2	7:48	PROCEDURE.
0.067	182.840	54.2	7:50	
0.100	208.970	54.0	7:52	
0.133	216.358	53.5	7:54	
0.167	190.815	52.7	7:56	
0.200	155.760	52.0	7:58	
0.233	154.770	51.0	8: 0	
0.267	154.470	50.2	8: 2	
0.300	153.900	49.5	8: 4	
0.333	154.050	49.0	8: 6	
0.367	153.991	48.7	8: 8	
0.400	154.006	48.5	8:10	
0.433	153.961	48.5	8:12	
0.467	153.991	48.5	8:14	
0.500	154.021	48.5	8:16	
0.533	154.036	48.5	8:18	
0.567	154.021	48.5	8:20	
0.600	153.976	48.7	8:22	
0.633	154.036	48.7	8:24	
0.667	154.051	48.7	8:26	
0.700	154.050	49.0	8:28	
0.733	154.065	49.0	8:30	
0.767	154.050	49.2	8:32	
0.833	154.065	49.5	8:36	
0.867	154.080	49.5	8:38	
0.900	154.080	49.5	8:40	
0.933	154.035	49.7	8:42	
0.967	154.050	49.7	8:44	
1.000	154.034	50.0	8:46	
1.033	154.064	50.0	8:48	
1.067	154.079	50.0	8:50	
1.100	154.064	50.2	8:52	
1.133	154.064	50.2	8:54	
1.167	154.094	50.2	8:56	
1.200	154.064	50.5	8:58	
1.233	154.109	50.5	9: 0	
1.300	154.139	50.5	9: 4	
1.333	154.079	50.7	9: 6	
1.367	154.094	50.7	9: 8	
1.400	154.094	50.7	9:10	
1.433	154.109	50.7	9:12	END OF STIMULATION.

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.000	154.109	50.7	9:12	22/ 9/83	WELL OPENED TO FLOW
0.033	144.081	51.0	9:14		ON 48/64" ADJ. CHOKE.
0.067	144.097	51.2	9:16		
0.100	142.104	52.0	9:18		
0.133	139.857	52.7	9:20		
0.167	135.200	53.7	9:22		
0.200	129.466	54.5	9:24		
0.233	126.343	55.2	9:26		
0.267	125.390	55.7	9:28		
0.300	125.378	56.0	9:30		
0.333	125.594	56.4	9:32		DIRECT FLOW THRU HEATER
0.367	125.851	56.7	9:34		ON 2 X 28/64" CHOKES.
0.400	137.681	56.7	9:36		INCREASE TO 128/64" CHOKE
0.433	139.421	57.2	9:38		AT MANIFOLD.
0.467	138.061	57.4	9:40		
0.500	137.329	57.7	9:42		
0.533	138.064	57.9	9:44		
0.567	138.710	58.2	9:46		
0.600	138.996	58.4	9:48		
0.633	139.283	58.7	9:50		
0.667	139.778	58.9	9:52		
0.700	140.349	59.2	9:54		
0.733	140.708	59.2	9:56		
0.767	140.859	59.4	9:58		
0.800	140.876	59.7	10: 0		
0.833	140.966	59.7	10: 2		
0.867	141.040	59.7	10: 4		
0.900	140.653	59.9	10: 6		
0.933	140.414	59.9	10: 8		
0.967	140.324	59.9	10:10		
1.000	140.356	60.2	10:12		
1.033	140.461	60.2	10:14		
1.067	140.550	60.2	10:16		
1.100	140.490	60.2	10:18		
1.133	140.401	60.2	10:20		
1.167	140.356	60.2	10:22		
1.233	140.283	60.4	10:26		
1.267	140.268	60.4	10:28		
1.300	140.447	60.4	10:30		
1.333	140.747	60.4	10:32		
1.367	140.971	60.4	10:34		
1.400	141.120	60.4	10:36		
1.433	141.180	60.4	10:38		
1.467	141.195	60.4	10:40		
1.500	141.165	60.4	10:42		
1.533	141.135	60.4	10:44		
1.567	141.046	60.4	10:46		
1.600	141.001	60.4	10:48		
1.633	141.122	60.7	10:50		
1.700	141.569	60.4	10:54		

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
1.733	141.661	60.7	10:56	22/ 9/83	
1.767	141.661	60.7	10:58		
1.800	141.601	60.7	11: 0		
1.833	141.496	60.7	11: 2		
1.867	141.391	60.7	11: 4		
1.900	141.362	60.7	11: 6		
1.933	141.496	60.7	11: 8		
1.967	141.705	60.7	11:10		
2.000	141.900	60.7	11:12		
2.033	142.020	60.7	11:14		
2.067	141.975	60.7	11:16		
2.133	141.797	60.9	11:20		
2.167	141.767	60.9	11:22		
2.200	141.707	60.9	11:24		
2.233	141.737	60.9	11:26		
2.267	141.917	60.9	11:28		
2.300	142.126	60.9	11:30		
2.333	142.290	60.9	11:32		
2.367	142.365	60.9	11:34		
2.400	142.395	60.9	11:36		
2.433	142.425	60.9	11:38		
2.467	142.395	60.9	11:40		
2.500	142.350	60.9	11:42		
2.533	142.305	60.9	11:44		INCREASE TO 2 X 48/64"
2.600	132.168	60.9	11:48		CHOKES AT HEATER.
2.633	132.213	60.9	11:50		
2.667	132.210	60.7	11:52		
2.700	132.133	60.4	11:54		
2.733	132.145	60.2	11:56		
2.800	131.936	60.2	12: 0		
2.833	132.020	59.7	12: 2		
2.867	132.050	59.7	12: 4		
2.900	132.182	59.4	12: 6		
2.933	132.242	59.4	12: 8		
2.967	132.302	59.4	12:10		
3.033	132.287	59.4	12:14		
3.067	132.254	59.2	12:16		
3.100	132.269	59.2	12:18		
3.167	132.389	59.2	12:22		
3.200	132.479	59.2	12:24		
3.233	132.584	59.2	12:26		
3.267	132.643	59.2	12:28		
3.300	132.658	59.2	12:30		
3.333	132.613	59.2	12:32		
3.367	132.628	59.2	12:34		
3.400	132.613	59.2	12:36		
3.433	132.628	59.2	12:38		
3.467	132.733	59.2	12:40		
3.500	132.853	59.2	12:42		
3.533	132.915	59.4	12:44		

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.567	132.990	59.4	12:46	22/ 9/83
3.600	133.050	59.4	12:48	
3.633	133.080	59.4	12:50	
3.667	133.125	59.4	12:52	
3.700	133.065	59.4	12:54	
3.733	133.035	59.4	12:56	
3.767	133.005	59.4	12:58	
3.800	132.990	59.4	13: 0	
3.833	133.035	59.4	13: 2	
3.867	133.139	59.4	13: 4	
3.900	133.259	59.4	13: 6	
3.933	133.349	59.4	13: 8	
3.967	133.379	59.4	13:10	
4.000	133.319	59.4	13:12	
4.033	133.319	59.4	13:14	
4.067	133.289	59.4	13:16	
4.100	133.274	59.4	13:18	
4.133	133.304	59.4	13:20	
4.167	133.439	59.4	13:22	
4.200	133.528	59.4	13:24	
4.233	133.606	59.7	13:26	
4.267	133.651	59.7	13:28	
4.333	133.665	59.7	13:32	
4.367	133.621	59.7	13:34	
4.400	133.591	59.7	13:36	
4.433	133.576	59.7	13:38	
4.467	133.695	59.7	13:40	
4.500	133.755	59.7	13:42	
4.533	133.845	59.7	13:44	
4.567	133.905	59.7	13:46	
4.600	133.875	59.7	13:48	
4.633	133.860	59.7	13:50	
4.667	133.815	59.7	13:52	
4.700	133.815	59.7	13:54	
4.733	133.815	59.7	13:56	
4.767	133.875	59.7	13:58	
4.800	133.980	59.7	14: 0	
4.833	134.099	59.7	14: 2	
4.867	134.144	59.7	14: 4	
4.900	134.132	59.9	14: 6	
4.933	134.147	59.9	14: 8	
4.967	134.132	59.9	14:10	
5.000	134.102	59.9	14:12	
5.033	134.042	59.9	14:14	
5.067	134.087	59.9	14:16	
5.100	134.191	59.9	14:18	
5.167	134.311	59.9	14:22	
5.200	134.311	59.9	14:24	
5.233	134.251	59.9	14:26	
5.267	134.206	59.9	14:28	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.300	134.191	59.9	14:30	22/ 9/83
5.333	134.161	59.9	14:32	
5.367	134.191	59.9	14:34	
5.400	134.281	59.9	14:36	
5.433	134.386	59.9	14:38	
5.467	134.461	59.9	14:40	
5.500	134.491	59.9	14:42	
5.533	134.520	59.9	14:44	
5.567	134.505	59.9	14:46	
5.600	134.358	60.2	14:48	
5.633	134.328	60.2	14:50	
5.667	134.358	60.2	14:52	
5.700	134.463	60.2	14:54	
5.733	134.553	60.2	14:56	
5.767	134.613	60.2	14:58	
5.800	134.687	60.2	15: 0	
5.833	134.657	60.2	15: 2	
5.867	134.583	60.2	15: 4	
5.900	134.538	60.2	15: 6	
5.933	134.523	60.2	15: 8	
6.000	134.583	60.2	15:12	
6.033	134.672	60.2	15:14	
6.067	134.777	60.2	15:16	
6.100	134.837	60.2	15:18	
6.133	134.852	60.2	15:20	
6.167	134.837	60.2	15:22	
6.200	134.777	60.2	15:24	
6.233	134.717	60.2	15:26	
6.267	134.717	60.2	15:28	
6.300	134.732	60.2	15:30	
6.333	134.837	60.2	15:32	
6.367	134.927	60.2	15:34	
6.400	134.956	60.2	15:36	
6.433	134.986	60.2	15:38	
6.467	134.927	60.2	15:40	
6.500	134.824	60.4	15:42	
6.533	134.794	60.4	15:44	
6.567	134.794	60.4	15:46	
6.600	134.824	60.4	15:48	
6.633	134.959	60.4	15:50	
6.667	135.004	60.4	15:52	
6.700	135.078	60.4	15:54	
6.733	135.093	60.4	15:56	
6.767	135.123	60.4	15:58	
6.800	135.123	60.4	16: 0	
6.833	135.183	60.4	16: 2	
6.867	135.153	60.4	16: 4	
6.900	135.063	60.4	16: 6	
6.933	135.034	60.4	16: 8	
6.967	134.989	60.4	16:10	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
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OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
7.000	135.004	60.4	16:12	22/ 9/83	
7.033	135.093	60.4	16:14		
7.067	135.183	60.4	16:16		
7.100	135.258	60.4	16:18		
7.133	135.243	60.4	16:20		
7.167	135.228	60.4	16:22		
7.200	135.183	60.4	16:24		
7.233	135.138	60.4	16:26		
7.267	135.108	60.4	16:28		
7.300	135.108	60.4	16:30		
7.333	135.198	60.4	16:32		
7.367	135.273	60.4	16:34		
7.400	135.348	60.4	16:36		
7.433	135.378	60.4	16:38		
7.467	135.392	60.4	16:40		
7.500	135.437	60.4	16:42		
7.533	135.410	60.7	16:44		
7.567	135.380	60.7	16:46		
7.600	135.320	60.7	16:48		
7.633	135.260	60.7	16:50		
7.667	135.245	60.7	16:52		
7.700	135.230	60.7	16:54		
7.733	135.260	60.7	16:56		
7.767	135.320	60.7	16:58		
7.800	134.333	60.7	17: 0		INCREASE TO 2 X 128/64"
7.833	134.124	60.7	17: 2		CHOKES AT HEATER.
7.867	134.154	60.7	17: 4		
7.900	134.139	60.7	17: 6		
7.933	134.166	60.4	17: 8		
7.967	134.106	60.4	17:10		
8.000	134.077	60.4	17:12		
8.033	134.106	60.4	17:14		
8.067	134.196	60.4	17:16		
8.100	134.256	60.4	17:18		
8.133	134.256	60.4	17:20		
8.167	134.271	60.4	17:22		
8.200	134.256	60.4	17:24		BYPASS HEATER.
8.233	129.770	60.4	17:26		
8.267	127.856	60.4	17:28		
8.300	128.033	60.2	17:30		
8.333	128.048	60.2	17:32		
8.367	128.075	59.9	17:34		
8.400	128.075	59.9	17:36		
8.433	128.102	59.7	17:38		
8.467	128.072	59.7	17:40		
8.500	128.084	59.4	17:42		
8.533	128.114	59.4	17:44		
8.567	128.099	59.4	17:46		
8.600	128.084	59.4	17:48		
8.633	128.099	59.4	17:50		

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID FLOW).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
8.667	128.099	59.4	17:52	22/ 9/83	
8.700	128.126	59.2	17:54		
8.733	128.156	59.2	17:56		DECREASE TO 96/64" FIXED
8.767	128.559	59.2	17:58		CHOKE AT MANIFOLD.
8.800	128.574	59.2	18: 0		
8.833	128.589	59.2	18: 2		
8.867	128.604	59.2	18: 4		
8.900	128.634	59.2	18: 6		
8.933	128.634	59.2	18: 8		
8.967	128.634	59.2	18:10		
9.000	128.604	59.2	18:12		
9.033	128.305	59.2	18:14		
9.067	128.096	59.2	18:16		
9.100	128.066	59.2	18:18		
9.133	128.066	59.2	18:20		
9.167	128.096	59.2	18:22		
9.200	128.096	59.2	18:24		
9.233	128.096	59.2	18:26		
9.267	128.066	59.2	18:28		END OF FLOW PERIOD.

STATOIL
WELL NO: 31/9-1
TROLL

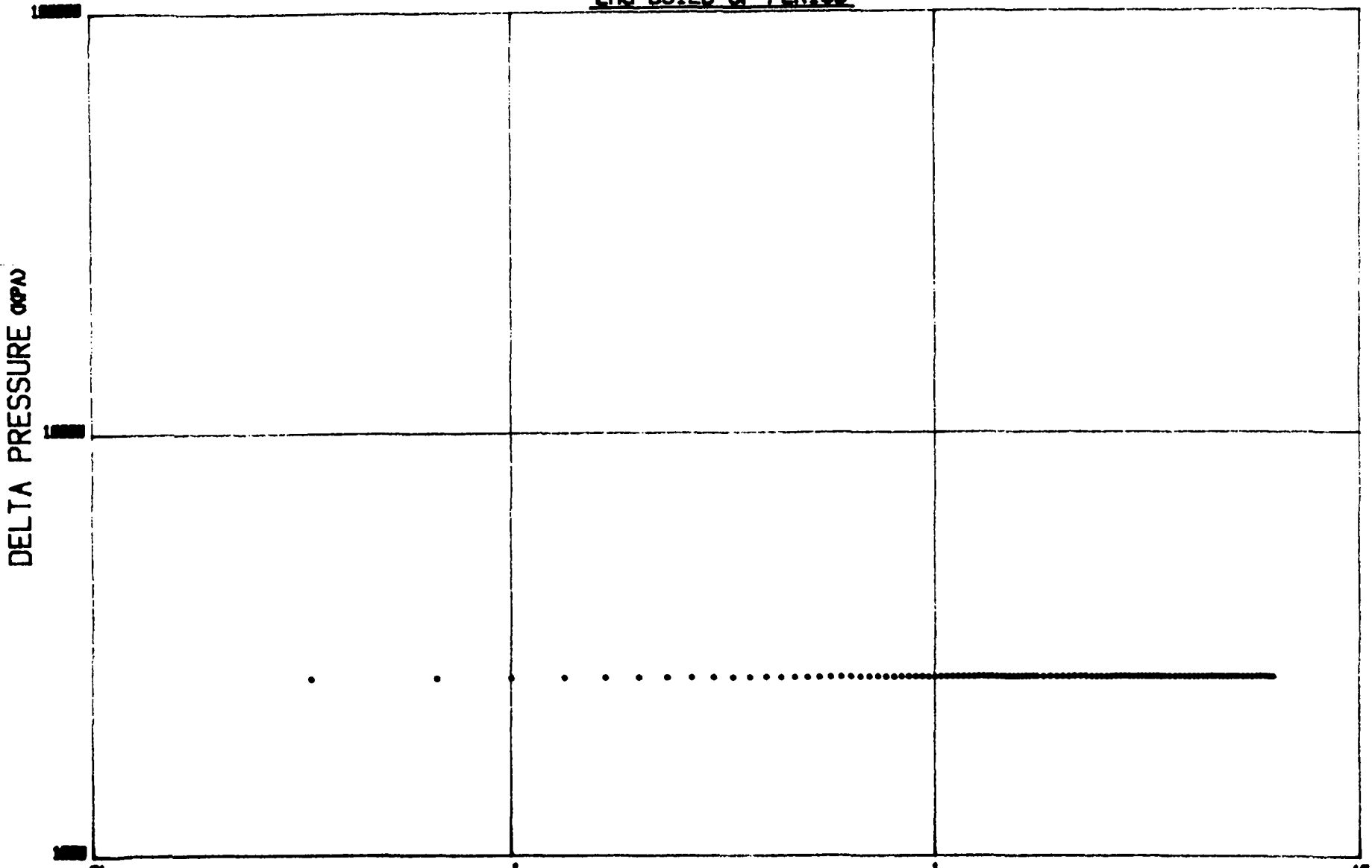
NL Sperry-Sun, Inc.

LOG(dP) Vs LOG(dT) PLOT

21 SEPTEMBER 1989

MKIIIA 9189-2241
DB408D

TEST NO. 1 RUN NO. 2
2nd BUILD-UP PERIOD



SHUT-IN TIME = 2987 mins.
FINAL DELTA TIME = 2787 mins.

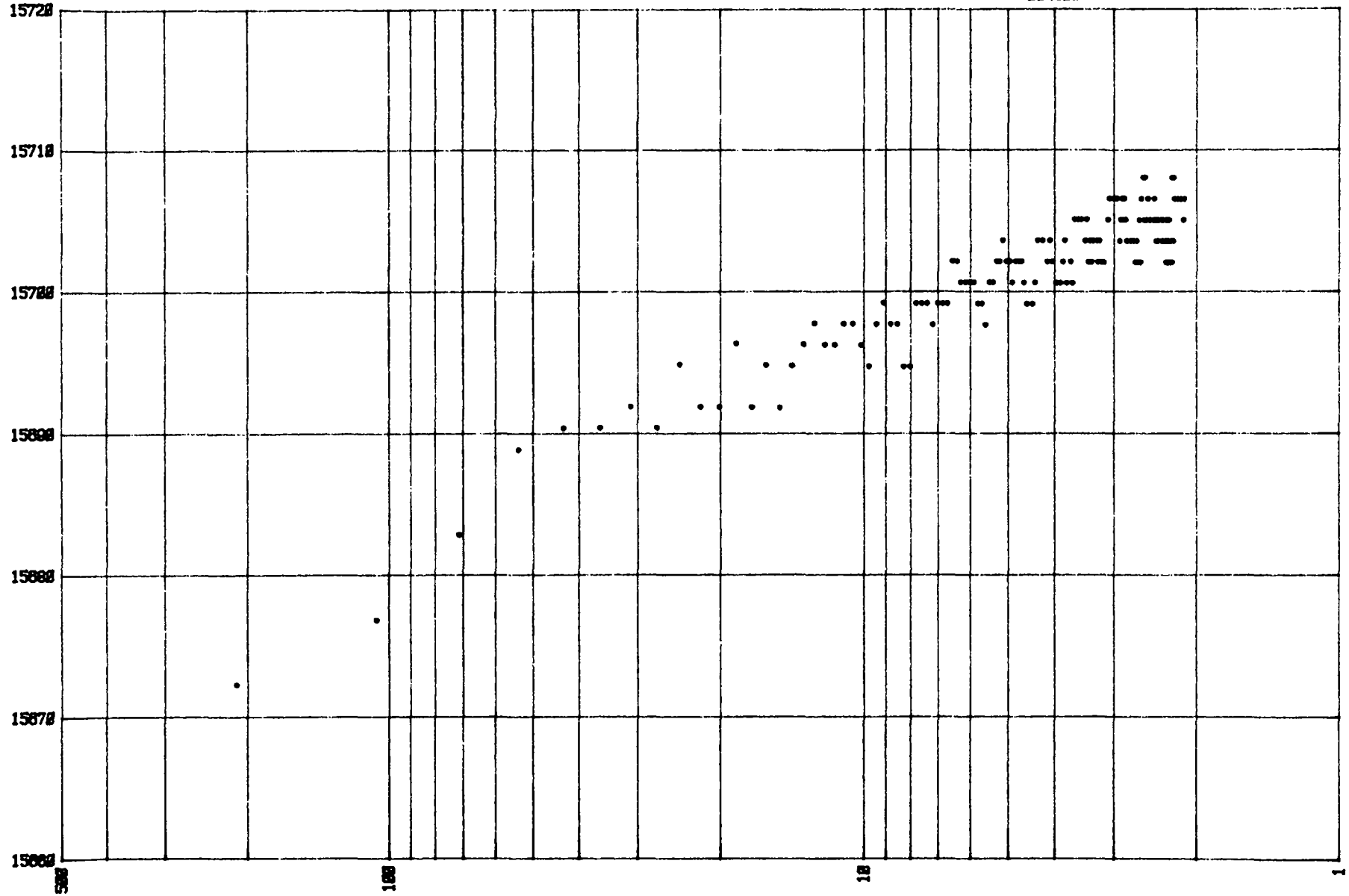
STATOIL
WELL NO: 31/3-1
TROLL

NL Sperry-Sun, Inc.

HORNER PLOT

21 SEPTEMBER 1983

MKIIIA 8188-2241
D84688



TEST NO. 1 RUN NO. 2 (Post Acid)
SHUT-IN TIME = 2387 mins.
FINAL DELTA TIME = 2767 mins.

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.031	128.066	59.2	18:28	22/ 9/83 CLOSE CHOKE & PCTV.
0.003	130.519	59.2	18:30	
0.036	156.723	59.4	18:32	
0.069	156.768	59.9	18:34	
0.103	156.828	60.2	18:36	
0.136	156.888	60.4	18:38	
0.169	156.904	60.7	18:40	
0.203	156.904	60.9	18:42	
0.236	156.919	60.9	18:44	
0.269	156.904	60.9	18:46	
0.303	156.949	60.7	18:48	
0.336	156.919	60.7	18:50	
0.369	156.919	60.7	18:52	
0.403	156.963	60.4	18:54	
0.436	156.918	60.4	18:56	
0.469	156.948	60.2	18:58	
0.503	156.918	60.2	19: 0	
0.536	156.948	59.9	19: 2	
0.569	156.963	59.9	19: 4	
0.603	156.977	59.7	19: 6	
0.636	156.962	59.7	19: 8	
0.669	156.962	59.7	19:10	
0.703	156.977	59.4	19:12	
0.736	156.977	59.4	19:14	
0.769	156.962	59.4	19:16	
0.803	156.947	59.4	19:18	
0.836	156.977	59.2	19:20	
0.869	156.992	59.2	19:22	
0.903	156.977	59.2	19:24	
0.936	156.977	59.2	19:26	
0.969	156.947	59.2	19:28	
1.003	156.947	59.2	19:30	
1.036	156.992	58.9	19:32	
1.069	156.992	58.9	19:34	
1.103	156.992	58.9	19:36	
1.136	156.977	58.9	19:38	
1.169	156.992	58.9	19:40	
1.203	156.992	58.9	19:42	
1.236	156.992	58.9	19:44	
1.269	157.021	58.7	19:46	
1.303	157.021	58.7	19:48	
1.336	157.006	58.7	19:50	
1.369	157.006	58.7	19:52	
1.403	157.006	58.7	19:54	
1.436	157.006	58.7	19:56	
1.469	156.991	58.7	19:58	
1.503	156.991	58.7	20: 0	
1.536	156.976	58.7	20: 2	
1.569	157.006	58.7	20: 4	
1.603	157.006	58.7	20: 6	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.636	157.021	58.4	20: 8	22/ 9/83
1.669	157.021	58.4	20:10	
1.703	157.036	58.4	20:12	
1.736	157.021	58.4	20:14	
1.769	157.021	58.4	20:16	
1.803	157.006	58.4	20:18	
1.836	157.021	58.4	20:20	
1.869	157.021	58.4	20:22	
1.903	157.021	58.4	20:24	
1.936	157.006	58.4	20:26	
1.969	156.991	58.4	20:28	
2.003	156.991	58.4	20:30	
2.036	156.991	58.4	20:32	
2.069	157.006	58.4	20:34	
2.103	157.036	58.2	20:36	
2.136	157.036	58.2	20:38	
2.169	157.036	58.2	20:40	
2.203	157.036	58.2	20:42	
2.236	157.021	58.2	20:44	
2.269	157.036	58.2	20:46	
2.303	157.021	58.2	20:48	
2.336	157.021	58.2	20:50	
2.369	157.006	58.2	20:52	
2.403	157.006	58.2	20:54	
2.436	157.006	58.2	20:56	
2.469	157.021	58.2	20:58	
2.503	157.036	58.2	21: 0	
2.536	157.006	58.2	21: 2	
2.569	157.006	58.2	21: 4	
2.603	157.021	58.2	21: 6	
2.636	157.006	58.2	21: 8	
2.669	157.051	57.9	21:10	
2.703	157.051	57.9	21:12	
2.736	157.051	57.9	21:14	
2.769	157.051	57.9	21:16	
2.803	157.051	57.9	21:18	
2.836	157.051	57.9	21:20	
2.869	157.036	57.9	21:22	
2.903	157.051	57.9	21:24	
2.936	157.021	57.9	21:26	
2.969	157.036	57.9	21:28	
3.003	157.021	57.9	21:30	
3.036	157.036	57.9	21:32	
3.069	157.036	57.9	21:34	
3.103	157.036	57.9	21:36	
3.136	157.021	57.9	21:38	
3.169	157.036	57.9	21:40	
3.203	157.021	57.9	21:42	
3.236	157.021	57.9	21:44	
3.269	157.021	57.9	21:46	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL — OFFSHORE NORWAY
TROLL — 21 SEPTEMBER 1983
31/3-1 — NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
3.303	157.021	57.9	21:48	22/ 9/83
3.336	157.021	57.9	21:50	
3.369	157.050	57.7	21:52	
3.403	157.065	57.7	21:54	
3.436	157.065	57.7	21:56	
3.469	157.065	57.7	21:58	
3.503	157.065	57.7	22: 0	
3.536	157.065	57.7	22: 2	
3.569	157.065	57.7	22: 4	
3.603	157.065	57.7	22: 6	
3.636	157.065	57.7	22: 8	
3.669	157.036	57.7	22:10	
3.703	157.050	57.7	22:12	
3.736	157.065	57.7	22:14	
3.769	157.050	57.7	22:16	
3.803	157.065	57.7	22:18	
3.836	157.050	57.7	22:20	
3.869	157.036	57.7	22:22	
3.903	157.036	57.7	22:24	
3.936	157.036	57.7	22:26	
3.969	157.036	57.7	22:28	
4.003	157.036	57.7	22:30	
4.036	157.036	57.7	22:32	
4.069	157.036	57.7	22:34	
4.103	157.036	57.7	22:36	
4.136	157.021	57.7	22:38	
4.169	157.036	57.7	22:40	
4.203	157.021	57.7	22:42	
4.236	157.021	57.7	22:44	
4.269	157.050	57.4	22:46	
4.303	157.021	57.7	22:48	
4.336	157.065	57.4	22:50	
4.369	157.065	57.4	22:52	
4.403	157.080	57.4	22:54	
4.436	157.050	57.4	22:56	
4.469	157.080	57.4	22:58	
4.503	157.050	57.4	23: 0	
4.536	157.050	57.4	23: 2	
4.569	157.065	57.4	23: 4	
4.603	157.065	57.4	23: 6	
4.636	157.050	57.4	23: 8	
4.669	157.050	57.4	23:10	
4.703	157.050	57.4	23:12	
4.736	157.050	57.4	23:14	
4.769	157.050	57.4	23:16	
4.803	157.065	57.4	23:18	
4.836	157.050	57.4	23:20	
4.869	157.035	57.4	23:22	
4.903	157.050	57.4	23:24	
4.936	157.035	57.4	23:26	

MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL OFFSHORE NORWAY
TROLL 21 SEPTEMBER 1983
31/3-1 NR-MS-30180

DST 1, RUN 2. GAUGE 0106, SENSING DEPTH 1489.54 M. (POST ACID BUILD-UP).

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
4.969	157.050	57.4	23:28	22/ 9/83
5.003	157.050	57.4	23:30	
5.036	157.050	57.4	23:32	
5.069	157.050	57.4	23:34	
5.103	157.050	57.4	23:36	
5.136	157.035	57.4	23:38	
5.169	157.050	57.4	23:40	
5.203	157.050	57.4	23:42	
5.236	157.050	57.4	23:44	
5.269	157.035	57.4	23:46	
5.303	157.020	57.4	23:48	
5.336	157.050	57.4	23:50	
5.369	157.020	57.4	23:52	
5.403	157.035	57.4	23:54	
5.436	157.050	57.4	23:56	
5.469	157.020	57.4	23:58	
5.503	157.020	57.4	0: 0	23/ 9/83
5.536	157.035	57.4	0: 2	
5.569	157.020	57.4	0: 4	
5.603	157.080	57.2	0: 6	
5.636	157.035	57.4	0: 8	
5.669	157.080	57.2	0:10	
5.703	157.065	57.2	0:12	
5.736	157.065	57.2	0:14	
5.769	157.065	57.2	0:16	
5.803	157.065	57.2	0:18	
5.836	157.065	57.2	0:20	
5.869	157.065	57.2	0:22	
5.903	157.065	57.2	0:24	
5.936	157.065	57.2	0:26	
5.969	157.065	57.2	0:28	
6.003	157.065	57.2	0:30	
6.036	157.065	57.2	0:32	
6.069	157.065	57.2	0:34	
6.103	157.065	57.2	0:36	
6.136	157.065	57.2	0:38	
6.169	157.065	57.2	0:40	
6.203	157.050	57.2	0:42	
6.236	157.065	57.2	0:44	
6.269	157.065	57.2	0:46	
6.303	157.065	57.2	0:48	
6.336	157.065	57.2	0:50	END OF TEST.

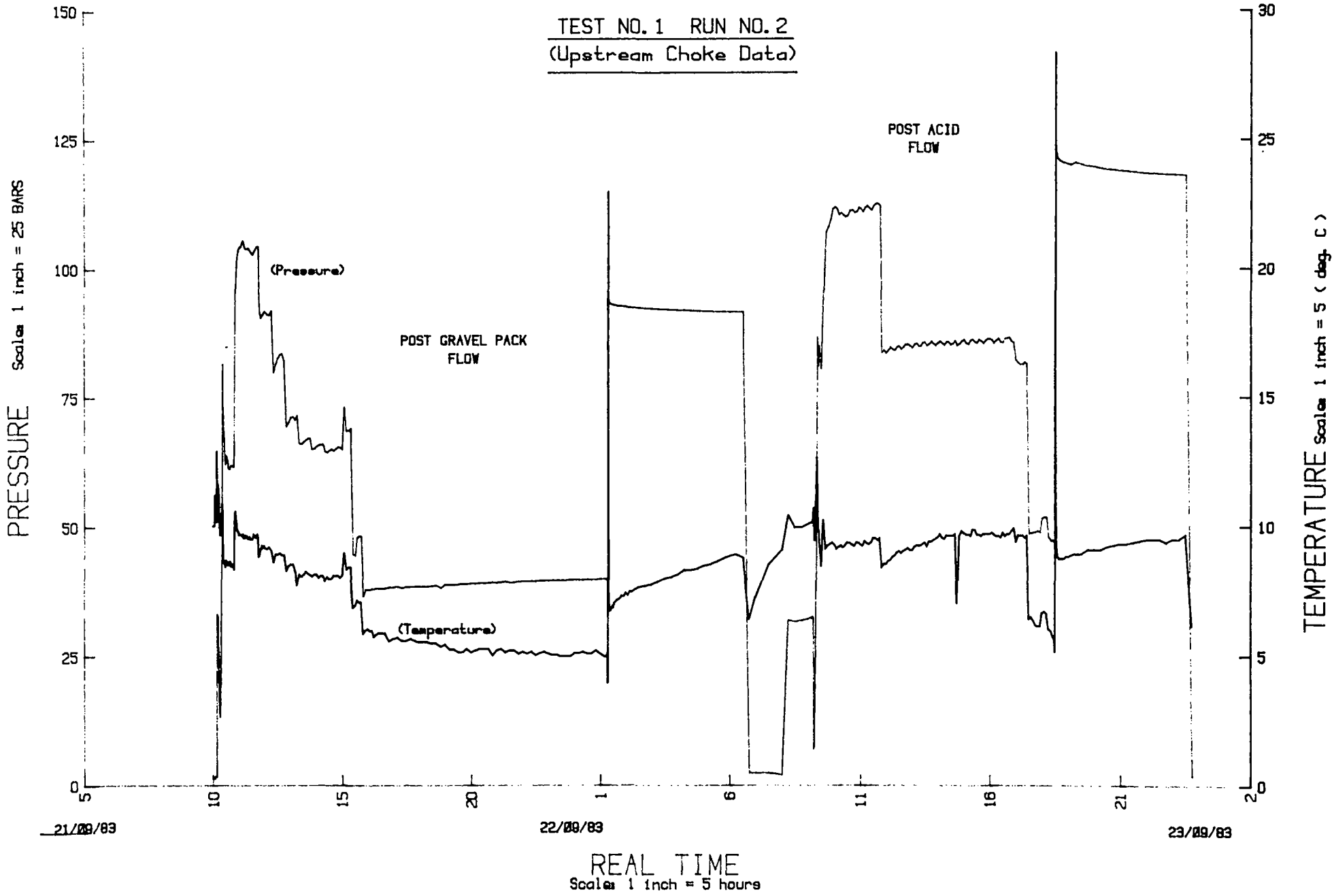
STATOIL
31/3-1 DST 1 POST GRAVEL PACK
TROLL
OFFSHORE NORWAY

NL Sperry-Sun, Inc.

PRESSURE/TEMP. Vs TIME PLOT

21 SEPTEMBER 1983
NR-XS-30179
MR-6 U/STREAM CHOKE
D1113I

TEST NO. 1 RUN NO. 2
(Upstream Choke Data)



SPERRY-SUN INTERNATIONAL
MR-SIX PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-XS-30179

DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (INITIAL STATIC)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	1.289	10.1	10: 0: 0	21/ 9/83 START OF DATA
0.066	1.289	10.1	10: 3:59	
0.071	1.289	10.2	10: 4:14	
0.075	1.496	11.2	10: 4:29	
0.083	1.634	10.7	10: 4:59	
0.091	1.634	10.4	10: 5:29	
0.100	1.703	10.3	10: 5:59	
0.108	1.703	10.3	10: 6:29	
0.116	1.703	10.2	10: 6:59	PRESSURE UP ANNULUS
0.125	1.703	10.2	10: 7:29	TO OPEN PCT AT 10:07
0.133	1.772	10.2	10: 7:59	
0.141	1.703	10.2	10: 8:29	
0.150	1.703	10.2	10: 8:59	
0.154	2.392	12.9	10: 9:14	
0.158	33.074	11.6	10: 9:29	
0.162	31.212	11.7	10: 9:44	
0.166	31.488	11.7	10: 9:59	
0.171	31.488	11.7	10:10:14	
0.175	31.695	11.7	10:10:29	
0.179	31.488	11.6	10:10:44	
0.183	32.798	11.5	10:10:59	
0.187	32.798	11.5	10:11:14	END OF STATIC

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OFFSHORE NORWAY
21 SEPTEMBER 1983
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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	32.798	11.5	10:11:14	21/ 9/83 WELL OPEN TO FLOW ON 20/64" ADJ CHOKE
0.004	31.557	11.4	10:11:29	INCREASING TO 48/64" ADJ CHOKE
0.008	29.558	11.3	10:11:44	
0.012	30.523	11.5	10:11:59	
0.017	27.834	11.3	10:12:14	
0.021	26.041	11.3	10:12:29	
0.025	25.352	10.9	10:12:44	
0.029	23.697	11.1	10:12:59	
0.033	21.835	11.1	10:13:14	
0.038	20.043	10.9	10:13:29	
0.042	20.112	10.7	10:13:44	
0.046	19.284	10.6	10:13:59	
0.050	17.492	10.4	10:14:14	
0.054	15.492	10.3	10:14:29	
0.058	15.906	10.2	10:14:44	
0.062	15.975	10.1	10:14:59	
0.067	14.596	10.0	10:15:14	
0.071	13.286	10.0	10:15:29	
0.075	13.355	9.9	10:15:44	
0.079	13.975	9.7	10:15:59	
0.083	14.734	9.7	10:16:14	
0.087	15.630	9.7	10:16:29	
0.092	16.733	9.7	10:16:44	
0.096	17.767	9.7	10:16:59	
0.100	19.077	9.7	10:17:14	
0.104	19.698	9.8	10:17:29	
0.108	20.801	9.8	10:17:44	
0.113	21.904	9.8	10:17:59	
0.117	23.559	9.9	10:18:14	
0.121	25.076	9.9	10:18:29	
0.125	27.351	10.0	10:18:44	
0.129	28.730	10.1	10:18:59	
0.133	30.523	10.1	10:19:14	
0.137	33.074	10.2	10:19:29	
0.142	35.625	10.2	10:19:44	
0.146	38.452	10.3	10:19:59	
0.150	41.348	10.3	10:20:14	
0.154	44.795	10.5	10:20:29	
0.158	48.587	10.6	10:20:44	
0.163	52.793	10.8	10:20:59	
0.167	57.688	10.9	10:21:14	
0.171	62.790	10.9	10:21:29	
0.175	66.651	10.6	10:21:44	
0.179	73.615	10.5	10:21:59	
0.183	78.510	10.7	10:22:14	
0.187	80.648	10.7	10:22:29	
0.192	81.682	10.5	10:22:44	
0.196	80.372	10.3	10:22:59	
0.200	73.270	9.5	10:23:14	
0.204	71.753	9.3	10:23:29	

MR-SIX PRESSURE GAUGE REPORT

STATOIL
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OFFSHORE NORWAY
21 SEPTEMBER 1983
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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.208	70.374	9.1	10:23:44	21/ 9/83	
0.212	69.409	8.9	10:23:59		GAS TO SURFACE
0.217	68.927	8.8	10:24:14		AT 10:24
0.221	68.444	8.7	10:24:29		
0.225	68.444	8.7	10:24:44		
0.229	67.961	8.7	10:24:59		
0.233	67.617	8.7	10:25:14		
0.238	67.203	8.6	10:25:29		
0.242	67.065	8.7	10:25:44		
0.246	66.720	8.7	10:25:59		
0.279	63.756	8.7	10:27:59		
0.296	62.170	8.5	10:28:59		
0.312	63.756	8.7	10:29:59		
0.329	63.756	8.7	10:30:59		
0.346	63.618	8.6	10:31:59		
0.363	63.135	8.7	10:32:59		
0.379	62.583	8.6	10:33:59		
0.396	61.687	8.6	10:34:59		
0.413	61.411	8.6	10:35:59		
0.429	61.411	8.6	10:36:59		
0.446	61.273	8.6	10:37:59		
0.462	61.480	8.7	10:38:59		
0.479	61.687	8.7	10:39:59		
0.496	61.894	8.6	10:40:59		
0.512	61.894	8.5	10:41:59		
0.529	61.894	8.5	10:42:59		
0.546	61.894	8.6	10:43:59		
0.562	61.756	8.6	10:44:59		
0.579	61.687	8.5	10:45:59		FLOW TO HEATER USING
0.596	61.756	8.6	10:46:59		2 x 24/64" HEATER CHOKES
0.613	61.756	8.6	10:47:59		AT 10:45
0.629	64.652	8.4	10:48:59		FULLY OPEN BOTH MANIFOLD
0.646	79.338	10.2	10:49:59		CHOKES AT 10:50
0.663	89.542	10.6	10:50:59		
0.679	95.609	10.6	10:51:59		
0.696	99.126	10.3	10:52:59		
0.712	100.918	10.2	10:53:59		
0.729	102.228	10.1	10:54:59		
0.746	102.987	9.9	10:55:59		
0.762	103.469	9.9	10:56:59		
0.779	103.883	9.8	10:57:59		
0.796	104.228	9.8	10:58:59		
0.812	104.297	9.7	10:59:59		
0.829	104.297	9.7	11: 0:59		
0.846	104.435	9.7	11: 1:59		FLOW TO SEPARATOR
0.863	104.435	9.7	11: 2:59		AT 11:02
0.879	104.572	9.7	11: 3:59		
0.896	104.848	9.7	11: 4:59		
0.913	105.124	9.7	11: 5:59		
0.929	105.400	9.7	11: 6:59		

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OFFSHORE NORWAY
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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.946	105.538	9.7	11: 7:59	21/ 9/83	
0.962	105.538	9.7	11: 8:59		
0.979	105.331	9.7	11: 9:59		
0.996	104.917	9.6	11:10:59		
1.012	104.504	9.7	11:11:59		
1.029	104.297	9.7	11:12:59		
1.046	104.090	9.6	11:13:59		
1.062	104.021	9.6	11:14:59		
1.079	104.021	9.7	11:15:59		
1.096	104.090	9.7	11:16:59		
1.113	104.090	9.7	11:17:59		
1.129	104.090	9.6	11:18:59		
1.146	104.159	9.6	11:19:59		
1.163	104.090	9.6	11:20:59		
1.179	104.021	9.6	11:21:59		
1.196	103.952	9.6	11:22:59		
1.212	103.745	9.6	11:23:59		
1.229	103.676	9.6	11:24:59		
1.246	103.469	9.6	11:25:59		
1.262	103.400	9.6	11:26:59		
1.279	103.331	9.6	11:27:59		
1.296	103.125	9.6	11:28:59		
1.312	102.987	9.6	11:29:59		
1.329	102.987	9.6	11:30:59		
1.346	103.056	9.6	11:31:59		
1.363	103.194	9.6	11:32:59		
1.379	103.469	9.7	11:33:59		
1.396	103.607	9.7	11:34:59		
1.413	103.745	9.7	11:35:59		
1.429	103.952	9.7	11:36:59		
1.446	104.090	9.7	11:37:59		
1.462	104.297	9.7	11:38:59		
1.479	104.366	9.6	11:39:59		
1.496	104.435	9.7	11:40:59		
1.512	104.504	9.7	11:41:59		
1.529	104.435	9.7	11:42:59		
1.546	104.435	9.6	11:43:59		
1.562	102.987	9.4	11:44:59		CHANGE TO 2x28/64" CHOKES
1.579	97.333	8.9	11:45:59		ON HEATER AT 11:45
1.596	94.437	8.9	11:46:59		
1.613	92.645	8.9	11:47:59		
1.629	91.541	9.1	11:48:59		
1.646	90.921	9.1	11:49:59		
1.663	90.714	9.2	11:50:59		
1.679	90.852	9.2	11:51:59		
1.696	91.059	9.3	11:52:59		
1.712	91.197	9.3	11:53:59		
1.729	91.197	9.2	11:54:59		
1.746	91.335	9.2	11:55:59		
1.762	91.541	9.3	11:56:59		

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STATOIL
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31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-XS-30179

DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
1.779	91.748	9.3	11:57:59	21/ 9/83	
1.796	91.748	9.3	11:58:59		
1.812	91.886	9.2	11:59:59		
1.896	91.403	9.2	12: 5: 0		
1.979	91.197	9.2	12:10: 0		
2.063	92.024	9.1	12:15: 0		CHANGE TO 2x32/64" CHOKES
2.146	80.027	8.7	12:20: 0		ON HEATER AT 12:15
2.229	81.613	8.9	12:25: 0		
2.313	82.785	8.9	12:30: 0		
2.396	83.475	9.0	12:35: 0		
2.479	83.681	8.9	12:40: 0		
2.563	82.440	8.9	12:45: 0		CHANGE TO 2x40/64" CHOKES
2.646	69.478	8.3	12:50: 0		ON HEATER AT 12:45
2.729	70.237	8.5	12:55: 0		
2.813	71.202	8.6	13: 0: 0		
2.896	71.340	8.6	13: 5: 0		
2.979	70.857	8.3	13:10: 0		
3.063	71.478	7.8	13:15: 0		CHANGE TO 2x48/64" CHOKES
3.146	66.238	8.2	13:20: 0		ON HEATER AT 13:16
3.229	66.100	8.1	13:25: 0		
3.313	66.444	8.2	13:30: 0		
3.396	66.789	8.3	13:35: 0		
3.479	67.134	8.2	13:40: 0		
3.563	67.134	8.2	13:45: 0		CHANGE TO 2x64/64" CHOKES
3.646	65.134	8.1	13:50: 0		ON HEATER AT 13:46
3.729	65.479	8.2	13:55: 0		
3.813	65.548	8.2	14: 0: 0		
3.896	65.824	8.1	14: 5: 0		
3.979	65.962	8.1	14:10: 0		
4.063	66.031	8.1	14:15: 0		CHANGE TO 2x128/64" CHOKE
4.146	64.652	7.9	14:20: 0		ON HEATER AT 14:17
4.229	64.445	8.1	14:25: 0		
4.313	64.721	8.0	14:30: 0		
4.396	64.997	8.0	14:35: 0		
4.479	64.790	8.1	14:40: 0		
4.563	65.066	7.9	14:45: 0		
4.646	65.410	8.1	14:50: 0		
4.729	65.341	8.1	14:55: 0		
4.813	65.066	8.1	15: 0: 0		
4.896	73.201	9.0	15: 5: 0		CHOKE DOWN TO 48/64"
4.979	68.720	8.4	15:10: 0		BY-PASS HEATER AT 15:06
5.063	68.720	8.4	15:15: 0		
5.146	68.996	8.4	15:20: 0		CHANGE TO 64/64" ADJ
5.229	44.795	6.9	15:25: 0		CHOKE AT 15:22
5.313	44.519	6.9	15:30: 0		CHANGE TO 64/64" FIX
5.396	47.967	7.2	15:35: 0		CHOKE AT 15:31
5.479	48.242	7.1	15:40: 0		CHANGE TO 96/64" FIX
5.563	48.173	7.1	15:45: 0		CHOKE AT 15:46
5.646	36.521	5.9	15:50: 0		
5.729	37.762	6.0	15:55: 0		

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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.813	37.831	6.1	16: 0: 0	21/ 9/83
5.896	37.831	6.0	16: 5: 0	
5.979	37.969	6.0	16:10: 0	
6.063	37.969	5.8	16:15: 0	
6.146	38.107	5.8	16:20: 0	
6.229	38.107	5.9	16:25: 0	
6.479	38.107	5.9	16:39:58	
6.646	38.314	5.6	16:49:58	
6.812	38.314	5.7	16:59:58	
6.979	38.452	5.7	17: 9:58	
7.146	38.245	5.6	17:19:58	
7.312	38.383	5.6	17:29:58	
7.479	38.452	5.7	17:39:58	
7.646	38.452	5.6	17:49:58	
7.812	38.521	5.6	17:59:58	
7.979	38.452	5.6	18: 9:58	
8.146	38.452	5.6	18:19:58	
8.312	38.590	5.5	18:29:58	
8.479	38.659	5.5	18:39:58	
8.646	38.245	5.4	18:49:58	
8.812	38.797	5.4	18:59:58	
8.979	38.728	5.3	19: 9:58	
9.146	38.797	5.3	19:19:58	
9.312	38.865	5.2	19:29:58	
9.479	39.003	5.2	19:39:58	FLOW TO TANK AFTER
9.646	38.934	5.3	19:49:58	SEPARATOR AT 19:45
9.812	39.072	5.2	19:59:58	
9.979	39.072	5.2	20: 9:58	
10.146	39.141	5.3	20:19:58	
10.312	39.141	5.3	20:29:58	
10.479	39.210	5.3	20:39:58	
10.646	39.279	5.1	20:49:58	
10.812	39.210	5.2	20:59:58	
10.979	39.348	5.3	21: 9:58	
11.146	39.417	5.2	21:19:58	
11.312	39.279	5.2	21:29:58	
11.479	39.348	5.2	21:39:58	
11.646	39.417	5.1	21:49:58	
11.812	39.486	5.2	21:59:58	
11.979	39.486	5.1	22: 9:58	
12.146	39.486	5.2	22:19:58	
12.312	39.486	5.1	22:29:58	
12.479	39.624	5.1	22:39:58	
12.646	39.624	5.2	22:49:58	BY-PASS TANK
12.812	39.624	5.1	22:59:58	AT 22:58
12.979	39.693	5.1	23: 9:58	
13.146	39.624	5.1	23:19:58	
13.312	39.693	5.0	23:29:58	
13.479	39.624	5.0	23:39:58	
13.646	39.762	5.0	23:49:58	

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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
13.812	39.762	5.1	23:59:58	21/ 9/83	
13.979	39.762	5.1	0: 9:58	22/ 9/83	
14.146	39.762	5.2	0:19:58		
14.312	39.831	5.1	0:29:58		
14.479	39.762	5.1	0:39:58		
14.646	39.762	5.2	0:49:58		
14.812	39.900	5.1	0:59:58		
14.979	39.900	5.0	1: 9:58		
15.063	39.900	5.0	1:14:59		
15.079	39.900	5.1	1:15:59		BY-PASS SEPARATOR
15.088	39.900	5.1	1:16:29		AT 01:16
15.090	35.142	4.0	1:16:39		
15.093	34.246	4.1	1:16:49		
15.096	33.832	4.0	1:16:59		
15.099	33.556	4.1	1:17: 9		
15.101	33.419	4.1	1:17:19		
15.104	33.281	4.0	1:17:29		
15.107	33.281	4.1	1:17:39		END OF FLOW PERIOD

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DST 1 RUN 2;MR-6 PROBE 019;UP-STREAM CHOKE MANIFOLD (FIRST SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	33.281	4.1	1:17:39	22/ 9/83 CLOSE PCT AT 01:18
0.003	59.619	13.3	1:17:49	
0.006	73.546	19.7	1:17:59	
0.008	82.027	23.0	1:18: 9	
0.011	91.197	23.0	1:18:19	
0.014	95.402	21.7	1:18:29	
0.017	94.575	18.7	1:18:39	
0.019	94.644	15.0	1:18:49	
0.022	94.299	12.9	1:18:59	
0.025	94.230	11.4	1:19: 9	
0.028	94.092	10.1	1:19:19	
0.031	93.955	9.3	1:19:29	
0.033	93.955	8.8	1:19:39	
0.036	93.817	8.3	1:19:49	
0.039	93.748	7.9	1:19:59	
0.042	93.748	7.8	1:20: 9	
0.044	93.679	7.6	1:20:19	
0.047	93.610	7.4	1:20:29	
0.050	93.610	7.3	1:20:39	
0.056	93.610	7.3	1:20:59	
0.072	93.403	6.9	1:21:59	
0.089	93.334	6.8	1:22:59	
0.106	93.265	6.8	1:23:59	
0.122	93.265	6.8	1:24:59	
0.139	93.196	6.8	1:25:59	
0.156	93.196	6.8	1:26:59	
0.172	93.196	6.9	1:27:59	
0.189	93.127	6.9	1:28:59	
0.206	93.127	6.9	1:29:59	
0.222	93.058	6.9	1:30:59	
0.239	93.058	6.9	1:31:59	
0.256	93.058	7.0	1:32:59	
0.272	93.058	7.1	1:33:59	
0.372	92.920	7.2	1:39:58	
0.455	92.851	7.2	1:44:58	
0.539	92.851	7.3	1:49:58	
0.622	92.782	7.3	1:54:58	
0.705	92.713	7.4	1:59:58	
0.789	92.645	7.4	2: 4:58	
0.872	92.645	7.5	2: 9:58	
0.955	92.576	7.5	2:14:58	
1.205	92.507	7.7	2:29:58	
1.455	92.369	7.7	2:44:58	
1.705	92.300	7.8	2:59:58	
1.955	92.231	7.9	3:14:58	
2.205	92.162	8.0	3:29:58	
2.455	92.093	8.1	3:44:58	
2.705	92.024	8.2	3:59:58	
2.955	92.024	8.3	4:14:58	
3.205	91.955	8.3	4:29:58	

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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (FIRST SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
3.455	91.886	8.4	4:44:58	22/ 9/83	
3.705	91.817	8.5	4:59:58		
3.955	91.817	8.6	5:14:58		
4.205	91.748	8.7	5:29:58		
4.455	91.748	8.8	5:44:58		
4.705	91.679	8.9	5:59:58		
4.955	91.679	8.9	6:14:58		
5.205	91.679	8.8	6:29:58		END OF SHUT-IN PERIOD

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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (ACIDISATION PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	91.679	8.8	6:29:58	22/ 9/83 PREPARE FOR ACIDISATION
0.250	2.323	6.4	6:44:58	
0.500	2.392	7.3	6:59:58	
1.000	2.392	8.6	7:29:58	
1.500	2.047	9.1	7:59:58	
1.750	31.902	10.4	8:14:58	
2.000	31.695	10.0	8:29:58	
2.250	31.833	10.0	8:44:58	
2.500	32.178	10.1	8:59:58	
2.601	32.384	10.2	9: 6: 0	
2.617	32.315	10.2	9: 7: 0	
2.634	32.384	10.2	9: 8: 0	
2.651	32.453	10.2	9: 9: 0	
2.667	32.522	10.2	9:10: 0	
2.684	32.522	10.2	9:11: 0	
2.701	32.384	10.6	9:12: 0	END OF ACIDISATION

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DST 1 RUN 2;MR-6 PROBE 019;UP-STREAM CHOKE MANIFOLD (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.000	32.384	10.6	9:12: 0	22/ 9/83	WELL OPEN TO FLOW
0.008	14.596	10.7	9:12:30		ON 48/64" ADJ CHOKE
0.017	7.081	10.1	9:13: 0		AT 09:12
0.025	7.425	10.2	9:13:30		
0.033	13.148	9.9	9:14: 0		
0.042	14.734	9.6	9:14:30		
0.050	16.595	9.5	9:15: 0		
0.058	18.871	9.5	9:15:30		
0.067	21.560	9.7	9:16: 0		
0.075	24.938	10.1	9:16:30		
0.083	28.592	10.3	9:17: 0		
0.092	32.591	10.6	9:17:30		
0.100	37.624	10.9	9:18: 0		
0.108	43.692	11.2	9:18:30		
0.117	50.655	11.6	9:19: 0		
0.125	59.067	12.1	9:19:30		
0.133	68.858	12.7	9:20: 0		
0.142	78.648	12.4	9:20:30		
0.150	86.715	12.2	9:21: 0		GAS & ACID AT SURFACE
0.158	84.164	11.3	9:21:30		AT 09:21
0.167	82.027	10.6	9:22: 0		
0.175	81.337	10.2	9:22:30		
0.183	81.544	9.9	9:23: 0		
0.192	82.716	9.9	9:23:30		
0.200	83.612	9.8	9:24: 0		
0.208	84.991	9.8	9:24:30		
0.217	84.578	9.6	9:25: 0		
0.300	80.717	8.5	9:30: 0		FLOW TO HEATER & FULLY
0.383	95.609	10.3	9:35: 0		OPEN CHOKE MANIFOLD
0.467	107.124	9.2	9:40: 0		AT 09:33
0.550	108.020	9.3	9:45: 0		FLOW TO SEPARATOR
0.633	109.468	9.3	9:50: 0		AT 09:48
0.717	111.536	9.4	9:55: 0		
0.800	111.950	9.3	10: 0: 0		
0.883	111.674	9.2	10: 5: 0		
0.967	110.571	9.2	10:10: 0		
1.050	110.778	9.3	10:15: 0		
1.133	110.433	9.2	10:20: 0		
1.217	110.088	9.3	10:25: 0		
1.300	110.226	9.4	10:30: 0		
1.383	111.260	9.4	10:35: 0		
1.467	111.329	9.3	10:40: 0		
1.550	110.985	9.3	10:45: 0		
1.633	111.054	9.4	10:50: 0		
1.717	111.812	9.4	10:55: 0		
1.800	111.674	9.3	11: 0: 0		
1.883	111.122	9.3	11: 5: 0		
1.967	111.743	9.4	11:10: 0		
2.050	112.157	9.4	11:15: 0		
2.133	111.743	9.3	11:20: 0		

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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
2.217	111.398	9.4	11:25: 0	22/ 9/83	
2.300	112.157	9.6	11:30: 0		
2.383	112.570	9.6	11:35: 0		
2.467	112.501	9.5	11:40: 0		
2.550	112.226	9.6	11:45: 0		CHANGE TO 2x48/64" CHOKES
2.633	83.681	8.4	11:50: 0		ON HEATER AT 11:46
2.717	84.164	8.6	11:55: 0		
2.800	83.750	8.6	12: 0: 0		
2.883	84.164	8.7	12: 5: 0		
2.967	84.716	8.7	12:10: 0		
3.050	84.440	8.8	12:15: 0		
3.133	84.233	8.9	12:20: 0		
3.217	84.785	9.0	12:25: 0		
3.300	84.991	9.1	12:30: 0		
3.383	84.509	9.0	12:35: 0		
3.467	84.716	9.1	12:40: 0		
3.550	85.267	9.1	12:45: 0		
3.633	85.336	9.2	12:50: 0		
3.717	85.060	9.1	12:55: 0		
3.800	84.716	9.1	13: 0: 0		
3.883	85.267	9.2	13: 5: 0		
3.967	85.474	9.3	13:10: 0		
4.050	85.060	9.3	13:15: 0		
4.133	84.991	9.3	13:20: 0		
4.217	85.612	9.3	13:25: 0		
4.300	85.681	9.4	13:30: 0		
4.383	85.267	9.3	13:35: 0		
4.467	85.405	9.4	13:40: 0		
4.550	85.957	9.4	13:45: 0		
4.633	85.612	9.5	13:50: 0		
4.717	85.267	9.6	13:55: 0		
4.800	85.612	9.6	14: 0: 0		
4.883	85.957	9.7	14: 5: 0		
4.967	85.681	9.6	14:10: 0		
5.050	85.336	9.6	14:15: 0		
5.133	85.819	9.7	14:20: 0		
5.217	85.819	9.7	14:25: 0		
5.300	85.405	9.7	14:30: 0		
5.383	85.543	9.7	14:35: 0		
5.467	86.026	9.7	14:40: 0		
5.550	85.267	7.1	14:45: 0		
5.633	85.474	9.7	14:50: 0		
5.717	85.957	9.8	14:55: 0		
5.800	86.232	9.8	15: 0: 0		
5.883	85.681	9.7	15: 5: 0		
5.967	85.474	9.7	15:10: 0		
6.050	86.095	9.7	15:15: 0		
6.133	86.301	9.9	15:20: 0		
6.217	85.888	9.9	15:25: 0		
6.300	85.750	9.7	15:30: 0		

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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
6.383	86.232	9.7	15:35: 0	22/ 9/83	
6.467	86.095	9.7	15:40: 0		
6.550	85.681	9.7	15:45: 0		
6.633	86.095	9.7	15:50: 0		
6.717	86.439	9.7	15:55: 0		
6.800	86.439	9.7	16: 0: 0		
6.883	86.301	9.8	16: 5: 0		
6.967	85.750	9.7	16:10: 0		
7.050	86.163	9.7	16:15: 0		
7.133	86.508	9.7	16:20: 0		
7.217	85.888	9.6	16:25: 0		
7.300	85.750	9.8	16:30: 0		
7.383	86.439	9.7	16:35: 0		
7.467	86.577	9.7	16:40: 0		
7.550	86.715	9.7	16:45: 0		
7.633	86.095	9.8	16:50: 0		
7.717	85.819	9.9	16:55: 0		CHANGE TO 2 x 128/64"
7.800	82.371	9.4	17: 0: 0		CHOKES AT HEATER.
7.883	81.889	9.7	17: 5: 0		
7.967	81.475	9.7	17:10: 0		
8.050	81.544	9.7	17:15: 0		
8.133	81.820	9.6	17:20: 0		
8.217	81.613	9.7	17:25: 0		BY-PASS HEATER.
8.300	48.725	6.4	17:30: 0		
8.383	48.794	6.5	17:35: 0		
8.467	48.863	6.4	17:40: 0		
8.550	48.932	6.2	17:45: 0		
8.633	49.139	6.2	17:50: 0		
8.717	49.001	6.2	17:55: 0		CHANGE TO 96/64" FIXED
8.800	51.621	6.7	18: 0: 0		CHOKE AT 17:57
8.883	51.828	6.7	18: 5: 0		
8.967	51.828	6.7	18:10: 0		
9.050	48.035	6.1	18:15: 0		
9.133	47.415	6.0	18:20: 0		
9.217	47.415	5.8	18:25: 0		
9.283	46.312	5.6	18:28:58		
9.291	44.037	5.2	18:29:28		END OF FLOW PERIOD

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DST 1 RUN 2,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (SECOND SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	44.037	5.2	18:29:28	22/ 9/83 CLOSE CHOKE & PCT
0.008	71.271	14.3	18:29:58	AT 18:30
0.017	116.707	28.4	18:30:28	
0.025	123.878	18.9	18:30:58	
0.033	123.257	12.9	18:31:28	
0.042	122.706	10.9	18:31:58	
0.050	122.292	9.9	18:32:28	
0.058	122.016	9.5	18:32:58	
0.067	121.740	9.2	18:33:28	
0.075	121.671	9.1	18:33:58	
0.083	121.534	8.9	18:34:28	
0.092	121.465	8.9	18:34:58	
0.108	121.258	8.8	18:35:58	
0.125	121.189	8.8	18:36:58	
0.142	121.120	8.8	18:37:58	
0.158	121.051	8.8	18:38:58	
0.175	120.982	8.8	18:39:58	
0.192	120.913	8.8	18:40:58	
0.208	120.844	8.8	18:41:58	
0.225	120.844	8.8	18:42:58	
0.242	120.844	8.8	18:43:58	
0.258	120.706	8.8	18:44:58	
0.275	120.706	8.7	18:45:58	
0.292	120.706	8.8	18:46:58	
0.308	120.637	8.8	18:47:58	
0.325	120.637	8.7	18:48:58	
0.342	120.568	8.8	18:49:58	
0.425	120.430	8.8	18:54:59	
0.509	120.293	8.8	18:59:59	
0.592	120.155	8.9	19: 4:59	
0.759	120.499	8.9	19:15: 0	
0.842	120.430	8.9	19:20: 0	
0.926	120.293	8.9	19:25: 0	
1.009	120.155	8.9	19:30: 0	
1.259	119.879	9.1	19:45: 1	
1.509	119.672	9.1	20: 0: 1	
1.759	119.396	9.1	20:15: 1	
2.009	119.189	9.2	20:30: 1	
2.259	119.051	9.3	20:45: 1	
2.509	118.914	9.3	21: 0: 1	
2.759	118.776	9.3	21:15: 1	
3.009	118.638	9.4	21:30: 1	
3.259	118.500	9.4	21:45: 1	
3.509	118.362	9.5	22: 0: 1	
3.759	118.293	9.4	22:15: 1	
4.009	118.224	9.5	22:30: 1	
4.259	118.155	9.4	22:45: 1	
4.509	118.086	9.5	23: 0: 1	
4.759	118.017	9.5	23:15: 1	
5.009	117.948	9.7	23:30: 1	END OF SHUT-IN PERIOD

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DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.000	1.151	6.3	10:11:14	21/ 9/83	WELL OPEN TO FLOW ON
0.004	1.151	6.3	10:11:29		20/64" ADJ CHOKE
0.008	1.151	6.6	10:11:44		INCREASING TO 48/64"
0.012	1.151	6.4	10:11:59		ADJ CHOKE
0.017	1.220	6.3	10:12:14		
0.021	1.220	6.3	10:12:29		
0.025	1.289	6.3	10:12:44		
0.029	1.151	6.2	10:12:59		
0.033	1.082	6.3	10:13:14		
0.038	1.082	6.4	10:13:29		
0.042	1.082	6.4	10:13:44		
0.046	1.082	6.4	10:13:59		
0.050	1.082	6.4	10:14:14		
0.054	1.082	6.4	10:14:29		
0.058	1.082	6.4	10:14:44		
0.062	1.082	6.4	10:14:59		
0.067	1.082	6.6	10:15:14		
0.071	1.082	6.5	10:15:29		
0.075	1.151	6.4	10:15:44		
0.079	1.289	6.3	10:15:59		
0.083	1.358	6.2	10:16:14		
0.087	1.358	6.2	10:16:29		
0.092	1.496	6.2	10:16:44		
0.096	1.496	6.3	10:16:59		
0.100	1.634	6.3	10:17:14		
0.104	1.703	6.4	10:17:29		
0.108	1.841	6.3	10:17:44		
0.113	1.979	6.4	10:17:59		
0.117	1.979	6.4	10:18:14		
0.121	2.185	6.8	10:18:29		
0.125	2.668	6.8	10:18:44		
0.129	4.047	6.9	10:18:59		
0.133	2.737	7.4	10:19:14		
0.137	2.668	7.8	10:19:29		
0.142	2.875	8.6	10:19:44		
0.146	4.047	8.5	10:19:59		
0.150	3.426	8.4	10:20:14		
0.154	3.426	8.6	10:20:29		
0.158	3.702	8.7	10:20:44		
0.163	4.392	9.3	10:20:59		
0.167	4.254	9.1	10:21:14		
0.171	19.353	9.2	10:21:29		
0.175	13.837	8.6	10:21:44		
0.179	18.526	10.0	10:21:59		
0.183	30.868	12.5	10:22:14		
0.187	51.276	15.3	10:22:29		
0.192	67.617	16.6	10:22:44		
0.196	68.444	14.3	10:22:59		
0.200	30.592	6.8	10:23:14		
0.204	26.455	6.7	10:23:29		

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DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.208	25.076	7.5	10:23:44	21/ 9/83	
0.212	24.524	8.1	10:23:59		GAS TO SURFACE
0.217	24.042	8.4	10:24:14		AT 10:24
0.221	24.386	8.7	10:24:29		
0.225	24.042	8.8	10:24:44		
0.229	23.697	8.9	10:24:59		
0.233	23.697	9.1	10:25:14		
0.238	23.559	9.1	10:25:29		
0.242	23.490	8.9	10:25:44		
0.246	23.559	9.1	10:25:59		
0.250	23.559	9.4	10:26:14		
0.279	22.387	8.4	10:27:59		
0.296	22.111	8.3	10:28:59		
0.313	22.180	8.2	10:29:59		
0.329	22.387	8.1	10:30:59		
0.346	22.249	7.8	10:31:59		
0.363	22.111	7.7	10:32:59		
0.379	21.835	7.6	10:33:59		
0.396	21.629	7.3	10:34:59		
0.413	21.284	7.2	10:35:59		
0.429	21.353	7.1	10:36:59		
0.446	21.353	6.9	10:37:59		
0.463	21.284	6.8	10:38:59		
0.479	21.353	6.7	10:39:59		
0.496	21.422	6.6	10:40:59		
0.513	21.215	6.3	10:41:59		
0.529	21.146	6.2	10:42:59		
0.546	21.215	6.1	10:43:59		
0.563	21.146	6.0	10:44:59		
0.579	21.215	5.8	10:45:59		FLOW TO HEATER USING
0.596	21.008	5.7	10:46:59		2 x 24/64" HEATER CHOKES
0.613	21.077	5.6	10:47:59		AT 10:45
0.629	26.386	6.3	10:48:59		FULLY OPEN BOTH MANIFOLD
0.646	78.579	10.6	10:49:59		CHOKES AT 10:50
0.663	89.266	7.9	10:50:59		
0.679	95.471	7.2	10:51:59		
0.696	98.988	6.8	10:52:59		
0.713	100.918	6.4	10:53:59		
0.729	102.090	6.2	10:54:59		
0.746	102.918	6.1	10:55:59		
0.763	103.400	5.9	10:56:59		
0.779	103.814	5.8	10:57:59		
0.796	104.090	5.8	10:58:59		
0.813	104.228	5.7	10:59:59		
0.829	104.228	5.6	11: 0:59		
0.846	104.297	5.6	11: 1:59		FLOW TO SEPARATOR
0.863	104.366	5.6	11: 2:59		AT 11:02
0.879	104.504	5.6	11: 3:59		
0.896	104.641	5.6	11: 4:59		
0.913	105.055	5.6	11: 5:59		

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DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.929	105.400	5.6	11: 6:59	21/ 9/83	
0.946	105.469	5.6	11: 7:59		
0.963	105.400	5.6	11: 8:59		
0.979	105.262	5.6	11: 9:59		
0.996	104.848	5.5	11:10:59		
1.013	104.435	5.6	11:11:59		
1.029	104.228	5.6	11:12:59		
1.046	104.021	5.6	11:13:59		
1.063	103.952	5.6	11:14:59		
1.079	103.952	5.6	11:15:59		
1.096	104.021	5.7	11:16:59		
1.113	104.021	5.7	11:17:59		
1.129	104.021	5.7	11:18:59		
1.146	104.090	5.7	11:19:59		
1.163	104.021	5.7	11:20:59		
1.179	103.952	5.7	11:21:59		
1.196	103.814	5.7	11:22:59		
1.213	103.676	5.7	11:23:59		
1.229	103.607	5.7	11:24:59		
1.246	103.400	5.7	11:25:59		
1.263	103.262	5.8	11:26:59		
1.279	103.262	5.8	11:27:59		
1.296	103.125	5.9	11:28:59		
1.313	102.987	5.9	11:29:59		
1.329	102.918	5.9	11:30:59		
1.346	102.987	6.0	11:31:59		
1.363	103.125	6.0	11:32:59		
1.379	103.331	6.1	11:33:59		
1.396	103.538	6.1	11:34:59		
1.413	103.676	6.1	11:35:59		
1.429	103.814	6.1	11:36:59		
1.446	104.021	6.2	11:37:59		
1.463	104.159	6.2	11:38:59		
1.479	104.297	6.2	11:39:59		
1.496	104.366	6.2	11:40:59		
1.513	104.366	6.2	11:41:59		
1.529	104.366	6.2	11:42:59		
1.546	104.297	6.2	11:43:59		
1.563	102.849	6.1	11:44:59		CHANGE TO 2 x 28/64"
1.579	97.126	5.8	11:45:59		CHOKES AT 11:45
1.596	94.230	5.9	11:46:59		
1.613	92.438	6.1	11:47:59		
1.629	91.403	6.2	11:48:59		
1.646	90.783	6.2	11:49:59		
1.663	90.507	6.3	11:50:59		
1.679	90.645	6.4	11:51:59		
1.696	90.852	6.4	11:52:59		
1.713	90.990	6.5	11:53:59		
1.729	90.990	6.5	11:54:59		
1.746	91.197	6.6	11:55:59		

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DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
1.763	91.335	6.6	11:56:59	21/ 9/83	
1.779	91.541	6.6	11:57:59		
1.796	91.610	6.7	11:58:59		
1.813	91.679	6.7	11:59:59		
1.896	91.266	6.7	12: 5: 0		
1.979	91.059	6.8	12:10: 0		
2.063	91.817	6.8	12:15: 0		CHANGE TO 2 x 32/64"
2.146	79.682	6.8	12:20: 0		CHOKES AT 12:15
2.229	81.337	7.2	12:25: 0		
2.313	82.578	7.2	12:30: 0		
2.396	83.268	7.2	12:35: 0		
2.479	83.475	7.1	12:40: 0		CHANGE TO 2 x 40/64"
2.563	82.027	7.2	12:45: 0		CHOKES AT 12:45
2.646	69.064	6.9	12:50: 0		
2.729	69.892	6.9	12:55: 0		
2.813	70.857	6.9	13: 0: 0		
2.896	70.926	6.7	13: 5: 0		
2.979	70.443	6.5	13:10: 0		
3.063	71.064	6.3	13:15: 0		CHANGE TO 2 x 48/64"
3.146	65.755	6.1	13:20: 0		CHOKES AT 13:16
3.229	65.686	5.9	13:25: 0		
3.313	65.962	5.9	13:30: 0		
3.396	66.376	5.9	13:35: 0		
3.479	66.720	5.9	13:40: 0		
3.563	66.720	5.9	13:45: 0		CHANGE TO 2 x 64/64"
3.646	64.652	5.9	13:50: 0		CHOKES AT 13:46
3.729	64.790	5.9	13:55: 0		
3.813	65.066	5.8	14: 0: 0		
3.896	65.341	5.6	14: 5: 0		
3.979	65.479	5.6	14:10: 0		
4.063	65.548	5.6	14:15: 0		CHANGE TO 2 x 128/64"
4.146	64.169	5.5	14:20: 0		CHOKES AT 14:17
4.229	63.962	5.6	14:25: 0		
4.313	64.307	5.8	14:30: 0		
4.396	64.445	5.9	14:35: 0		
4.479	64.376	6.0	14:40: 0		
4.563	64.514	6.1	14:45: 0		
4.646	64.859	6.2	14:50: 0		
4.729	64.790	6.1	14:55: 0		
4.813	64.652	6.4	15: 0: 0		
4.896	58.033	6.2	15: 5: 0		CHOKE DOWN TO 48/64"
4.979	33.556	6.2	15:10: 0		BY-PASS HEATER AT 15:06
5.063	31.695	5.9	15:15: 0		
5.146	31.626	5.6	15:20: 0		CHANGE TO 64/64" ADJ
5.229	33.488	5.1	15:25: 0		CHOKE AT 15:22
5.313	33.625	4.6	15:30: 0		CHANGE TO 64/64" FIX
5.396	33.488	4.2	15:35: 0		CHOKE AT 15:31
5.479	33.625	4.1	15:40: 0		CHANGE TO 96/64" FIX
5.563	33.488	3.8	15:45: 0		CHOKE AT 15:46
5.646	34.108	3.7	15:50: 0		

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DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
5.729	34.384	3.6	15:55: 0	21/ 9/83
5.813	34.453	3.7	16: 0: 0	
5.896	34.591	3.8	16: 5: 0	
5.979	34.660	3.9	16:10: 0	
6.063	34.591	4.1	16:15: 0	
6.146	34.660	4.2	16:20: 0	
6.229	34.729	4.3	16:25: 0	
6.479	34.798	4.6	16:39:58	
6.646	34.798	4.7	16:49:58	
6.812	34.798	4.7	16:59:58	
6.979	34.935	4.7	17: 9:58	
7.146	34.935	4.6	17:19:58	
7.312	35.004	4.6	17:29:58	
7.479	35.004	4.5	17:39:58	
7.646	35.004	4.5	17:49:58	
7.812	35.004	4.4	17:59:58	
7.979	35.004	4.2	18: 9:58	
8.146	34.866	4.1	18:19:58	
8.312	35.142	4.1	18:29:58	
8.479	35.142	4.0	18:39:58	
8.646	34.660	3.9	18:49:58	
8.812	35.280	3.8	18:59:58	
8.979	35.211	3.5	19: 9:58	
9.146	35.211	3.5	19:19:58	
9.312	35.280	3.4	19:29:58	
9.479	35.280	3.2	19:39:58	FLOW TO TANK AFTER
9.646	35.418	3.2	19:49:58	SEPARATOR AT 19:45
9.812	35.556	3.1	19:59:58	
9.979	35.418	3.0	20: 9:58	
10.146	35.556	3.1	20:19:58	
10.312	35.556	3.2	20:29:58	
10.479	35.556	3.2	20:39:58	
10.646	35.625	3.2	20:49:58	
10.812	35.625	3.3	20:59:58	
10.979	35.625	3.2	21: 9:58	
11.146	35.625	3.2	21:19:58	
11.312	35.694	3.3	21:29:58	
11.479	35.625	3.2	21:39:58	
11.646	35.694	3.2	21:49:58	
11.812	35.832	3.2	21:59:58	
11.979	35.832	3.3	22: 9:58	
12.146	35.832	3.2	22:19:58	
12.312	35.901	3.1	22:29:58	
12.479	35.901	3.1	22:39:58	
12.646	35.901	3.1	22:49:58	BY-PASS TANK
12.812	35.832	3.1	22:59:58	AT 22:58
12.979	35.901	3.1	23: 9:58	
13.146	35.970	3.1	23:19:58	
13.312	35.901	3.0	23:29:58	
13.479	35.970	3.1	23:39:58	

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DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
13.646	35.970	3.1	23:49:58	21/ 9/83	
13.812	36.039	3.1	23:59:58		
13.979	35.970	3.1	0: 9:58	22/ 9/83	
14.146	35.970	3.1	0:19:58		
14.312	36.039	3.1	0:29:58		
14.479	36.039	3.1	0:39:58		
14.646	35.970	6.7	0:49:58		
14.812	36.108	3.0	0:59:58		
14.979	36.108	3.1	1: 9:58		
15.063	36.108	3.0	1:14:59		
15.071	35.970	3.0	1:15:29		
15.079	36.039	3.1	1:15:59		
15.088	35.694	3.0	1:16:29		
15.096	28.385	2.9	1:16:59		
15.104	27.972	3.0	1:17:29		
15.107	27.834	3.1	1:17:39		END OF FLOW PERIOD

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DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
0.000	1.082	5.2	9:12: 0	22/ 9/83	WELL OPEN TO FLOW
0.008	1.082	5.4	9:12:30		ON 48/64" ADJ CHOKE
0.017	1.565	5.1	9:13: 0		AT 09:12
0.025	3.495	5.2	9:13:30		
0.033	11.080	5.6	9:14: 0		
0.042	12.527	5.6	9:14:30		
0.050	14.182	5.6	9:15: 0		
0.058	15.975	5.4	9:15:30		
0.067	18.181	5.5	9:16: 0		
0.075	20.939	5.5	9:16:30		
0.083	23.904	5.5	9:17: 0		
0.092	27.420	5.3	9:17:30		
0.100	31.695	5.4	9:18: 0		
0.108	36.797	5.5	9:18:30		
0.117	42.658	5.6	9:19: 0		
0.125	50.104	5.6	9:19:30		
0.133	57.550	5.6	9:20: 0		
0.142	64.721	6.0	9:20:30		
0.150	76.718	7.0	9:21: 0		GAS & ACID AT SURFACE
0.158	57.481	3.7	9:21:30		AT 09:21
0.167	28.661	1.9	9:22: 0		
0.175	26.179	3.6	9:22:30		
0.183	26.110	4.6	9:23: 0		
0.192	26.386	5.0	9:23:30		
0.200	26.524	5.1	9:24: 0		
0.208	27.213	5.2	9:24:30		
0.217	27.420	5.3	9:25: 0		
0.300	27.144	5.3	9:30: 0		FLOW TO HEATER & FULLY
0.383	92.989	10.8	9:35: 0		OPEN CHOKE MANIFOLD
0.467	106.779	5.1	9:40: 0		AT 09:33
0.550	107.675	4.8	9:45: 0		FLOW TO SEPARATOR
0.633	109.192	4.7	9:50: 0		AT 09:48
0.717	111.260	4.8	9:55: 0		
0.800	111.674	4.8	10: 0: 0		
0.883	111.398	4.9	10: 5: 0		
0.967	110.157	5.1	10:10: 0		
1.050	110.364	5.2	10:15: 0		
1.133	110.157	5.3	10:20: 0		
1.217	109.744	5.5	10:25: 0		
1.300	109.950	5.6	10:30: 0		
1.383	110.985	5.7	10:35: 0		
1.467	111.054	5.8	10:40: 0		
1.550	110.640	5.8	10:45: 0		
1.633	110.709	5.9	10:50: 0		
1.717	111.536	5.9	10:55: 0		
1.800	111.398	6.0	11: 0: 0		
1.883	110.847	6.1	11: 5: 0		
1.967	111.398	6.2	11:10: 0		
2.050	111.881	6.2	11:15: 0		
2.133	111.398	6.2	11:20: 0		

MR-SIX PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-XS-30179

DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
2.217	111.122	6.3	11:25: 0	22/ 9/83	
2.300	111.812	6.5	11:30: 0		
2.383	112.295	6.6	11:35: 0		
2.467	112.226	6.6	11:40: 0		
2.550	111.881	6.6	11:45: 0		CHANGE TO 2 x 48/64"
2.633	82.992	6.3	11:50: 0		CHOKES AT 11:46
2.717	83.406	6.7	11:55: 0		
2.800	83.061	6.7	12: 0: 0		
2.883	83.406	6.7	12: 5: 0		
2.967	84.026	6.8	12:10: 0		
3.050	83.681	6.8	12:15: 0		
3.133	83.543	6.8	12:20: 0		
3.217	84.095	7.0	12:25: 0		
3.300	84.233	6.9	12:30: 0		
3.383	83.819	6.7	12:35: 0		
3.467	83.957	6.7	12:40: 0		
3.550	84.509	6.7	12:45: 0		
3.633	84.578	6.8	12:50: 0		
3.717	84.371	6.8	12:55: 0		
3.800	84.026	6.9	13: 0: 0		
3.883	84.509	7.1	13: 5: 0		
3.967	84.716	7.2	13:10: 0		
4.050	84.371	7.2	13:15: 0		
4.133	84.233	7.2	13:20: 0		
4.217	84.853	7.2	13:25: 0		
4.300	84.922	7.2	13:30: 0		
4.383	84.509	7.2	13:35: 0		
4.467	84.647	7.3	13:40: 0		
4.550	85.198	7.2	13:45: 0		
4.633	84.853	7.2	13:50: 0		
4.717	84.509	7.3	13:55: 0		
4.800	84.853	7.4	14: 0: 0		
4.883	85.198	7.3	14: 5: 0		
4.967	84.922	7.3	14:10: 0		
5.050	84.578	7.3	14:15: 0		
5.133	85.060	7.1	14:20: 0		
5.217	85.129	7.0	14:25: 0		
5.300	84.647	7.0	14:30: 0		
5.383	84.785	7.2	14:35: 0		
5.467	85.336	7.4	14:40: 0		
5.550	85.267	7.1	14:45: 0		
5.633	84.716	7.2	14:50: 0		
5.717	85.129	7.2	14:55: 0		
5.800	85.474	7.2	15: 0: 0		
5.883	84.991	7.2	15: 5: 0		
5.967	84.716	6.8	15:10: 0		
6.050	85.267	6.7	15:15: 0		
6.133	85.474	6.6	15:20: 0		
6.217	85.060	6.6	15:25: 0		
6.300	84.991	6.5	15:30: 0		

STATOIL
TROLL
31/3-1
OFFSHORE NORWAY
21 SEPTEMBER 1983
NR-XS-30179
DST 1 RUN 2,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME		
6.383	85.474	6.1	15:35: 0	22/ 9/83	
6.467	85.198	6.1	15:40: 0		
6.550	84.853	6.2	15:45: 0		
6.633	85.198	6.5	15:50: 0		
6.717	85.612	6.7	15:55: 0		
6.800	85.681	6.8	16: 0: 0		
6.883	85.543	6.6	16: 5: 0		
6.967	84.922	6.3	16:10: 0		
7.050	85.336	5.9	16:15: 0		
7.133	85.681	5.6	16:20: 0		
7.217	85.060	5.4	16:25: 0		
7.300	84.853	5.4	16:30: 0		
7.383	85.474	5.6	16:35: 0		
7.467	85.612	5.7	16:40: 0		
7.550	85.750	5.9	16:45: 0		
7.633	85.198	5.9	16:50: 0		
7.717	84.922	5.9	16:55: 0		CHANGE TO 2 x 128/64"
7.800	81.337	5.7	17: 0: 0		CHOKES AT HEATER.
7.883	80.855	6.1	17: 5: 0		
7.967	80.441	6.1	17:10: 0		
8.050	80.579	6.2	17:15: 0		
8.133	80.855	6.2	17:20: 0		
8.217	80.579	6.2	17:25: 0		BY-PASS HEATER.
8.300	46.243	6.0	17:30: 0		
8.383	46.381	5.9	17:35: 0		
8.467	46.381	5.7	17:40: 0		
8.550	46.519	5.4	17:45: 0		
8.633	46.519	5.3	17:50: 0		
8.717	46.450	5.2	17:55: 0		CHANGE TO 96/64" FIXED
8.800	46.312	5.1	18: 0: 0		CHOKE AT 17:57
8.883	46.519	5.1	18: 5: 0		
8.967	46.519	4.9	18:10: 0		
9.050	41.761	4.7	18:15: 0		
9.133	41.003	4.6	18:20: 0		
9.217	41.003	4.5	18:25: 0		
9.283	39.555	4.3	18:28:58		
9.291	39.555	4.3	18:29:28		
9.299	36.452	4.1	18:29:58		END OF FLOW PERIOD