

Denne rapport
tilhører

 **STATOIL**

L&U DOK. SENTER

L. NR. 30283510012

KODE Well 31/3-1 nr. 14

Returneres etter bruk

N

sperry-SUI

Pressure Survey Report

for

Statoil

Well No. 31/3-1

12 September 1983

Test No. 1 Run No. 1

Downhole (Gauge No's. 0106 & 0120)

& Surface Data.



Pressure Survey Report
for
Statoil
Well No. 31/3-1
12 September 1983
Test No. 1 Run No. 1
Downhole (Gauge No.s. 0106 & 0120)
& Surface Data.

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

SEQUENCE OF EVENTS

DATE	TIME	OPERATION
12/09/83	06:40	Pick up GeoVann guns & run in hole.
	09:20	Install gauges in bundle-carrier.
13/09/83	07:36	Pressure up tubing to 48 Bar
	07:43	pressure up annulus to 70 Bar, open PCT.
	07:50	Open Swab valve & RIH to retrieve plug
	08:20	Plug out of nipple.
	08:35	Wireline out of hole.
	09:20	Run in hole with plug choke.
	09:40	Plug set in nipple.
	09:56	Increase tubing pressure to 150 Bar.
	09:59	Increase tubing pressure to 240 Bar, to set FH packer.
	10:10	Bleed tubing pressure to 120 Bar to equalise across plug, pulled plug out of nipple.
	10:15	Bleed tubing pressure down to check packer.
	10:20	Pull out of hole with plug.
	10:40	Install GeoVann detonating bar in lubricator.
	11:25	Open Swab valve & drop detonating bar. Close Swab valve.
	11:28	Detonate guns, flow to tank for backsurge.
	11:29	Reduce choke size 28/64".
	11:36	Flow to burner.
	11:40	Gas to surface.
	12:05	Close choke Manifold due to leaking chiksan down stream of choke.
	12:34	Re-open well on 28/64" fixed choke.
	13:19	Divert flow to separator.
	13:26	Close choke manifold, leaking chiksan.
	13:56	Open well using 2 x 20/64" chokes at heater.
	14:00	Divert flow through separator. Adjust chokes to obtain 280,000 SM3/D.
	15:32	Increase chokes to obtain 420,000 SM3/D.
	16:00	Close PCT & Choke manifold.
	18:00	Bleed tubing pressure & kill well.
	19:00	Open PCT & start bullheading.

SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

GAUGE NO:	0120M	0106M
TIME MODE	2 min	1 min
ELEMENT SIZE	10 K	10 K
DEPTH	1492.15	1492.15
MAX. TEMP.	61.4 C	61.7 C

EVENT	TIME/DATE	PRESSURE	PRESSURE
Static	11:28 13/09/83	128.206	128.231
1st Flow	12:05	156.405	156.374
1st Shut-in	12:34	157.163	157.153
2nd Flow	13:26	156.463	155.972
2nd Shut-in	13:56	157.198	157.154
3rd Flow	16:00	155.434	155.422
3rd Shut-in	19:00	157.196	156.914

ENGINEER P.Smith

STATOIL ENGINEER J.Self

Note:- Pressures are in Bars.

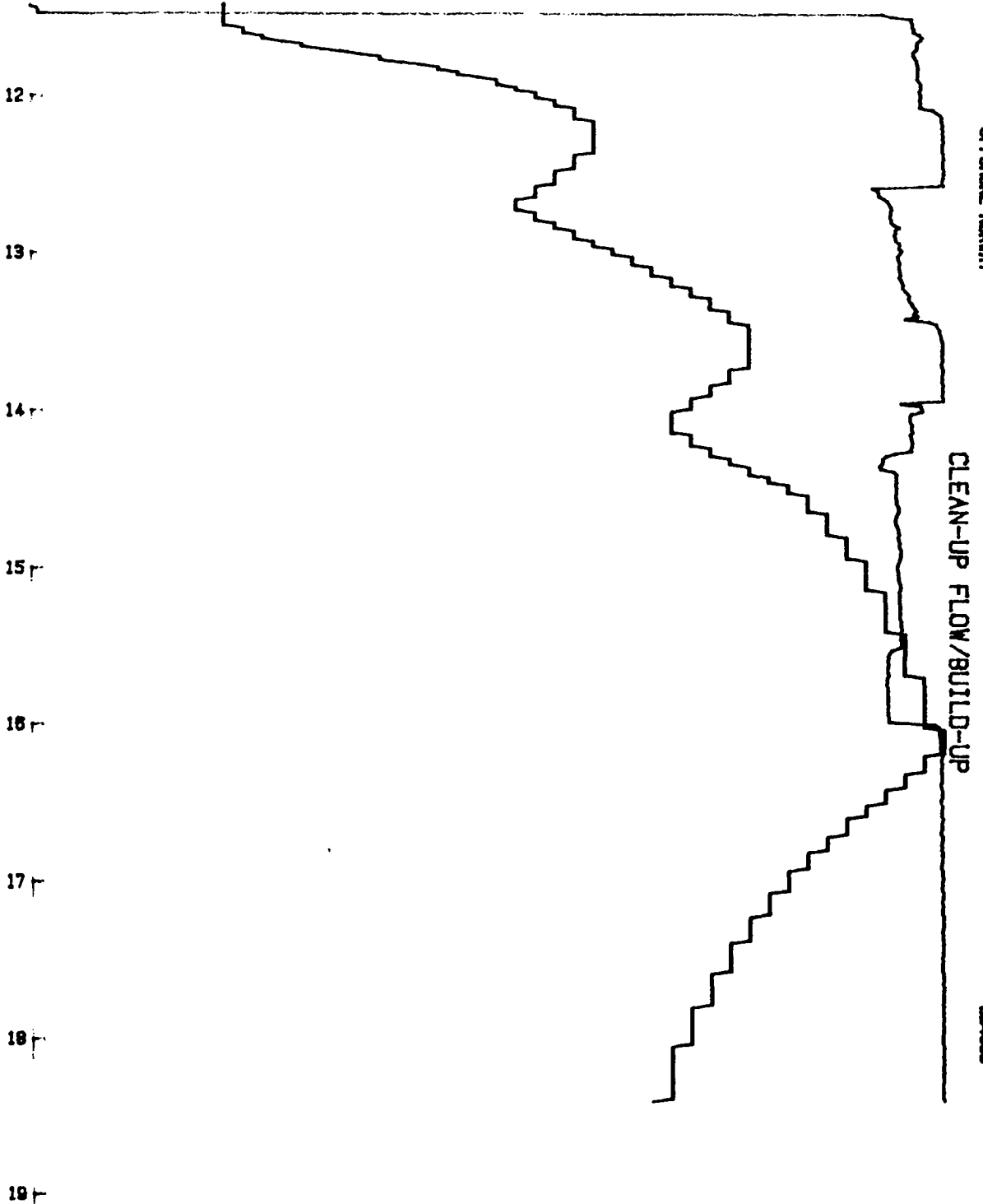
PRESSURE Scale 1 inch = 5 BARS

158
153
148
143
138
133
128

STATOIL
31/3-1 DST 1 RUN 1
TROLL
OFFSHORE NORWAY

NL Sperry-Sun, Inc.
PRESSURE/TEMP. vs TIME PLOT
CLEAN-UP FLOW/BUILD-UP

12 SEPTEMBER 1983
NR-45-307100
MK 3 01:00H
DM/4098



REAL TIME
Scale 1 inch = 1 hour

TEMPERATURE Scale 1 inch = 2 (deg. C)

13/ 8/83

20
18
17
16
15
14
13
12

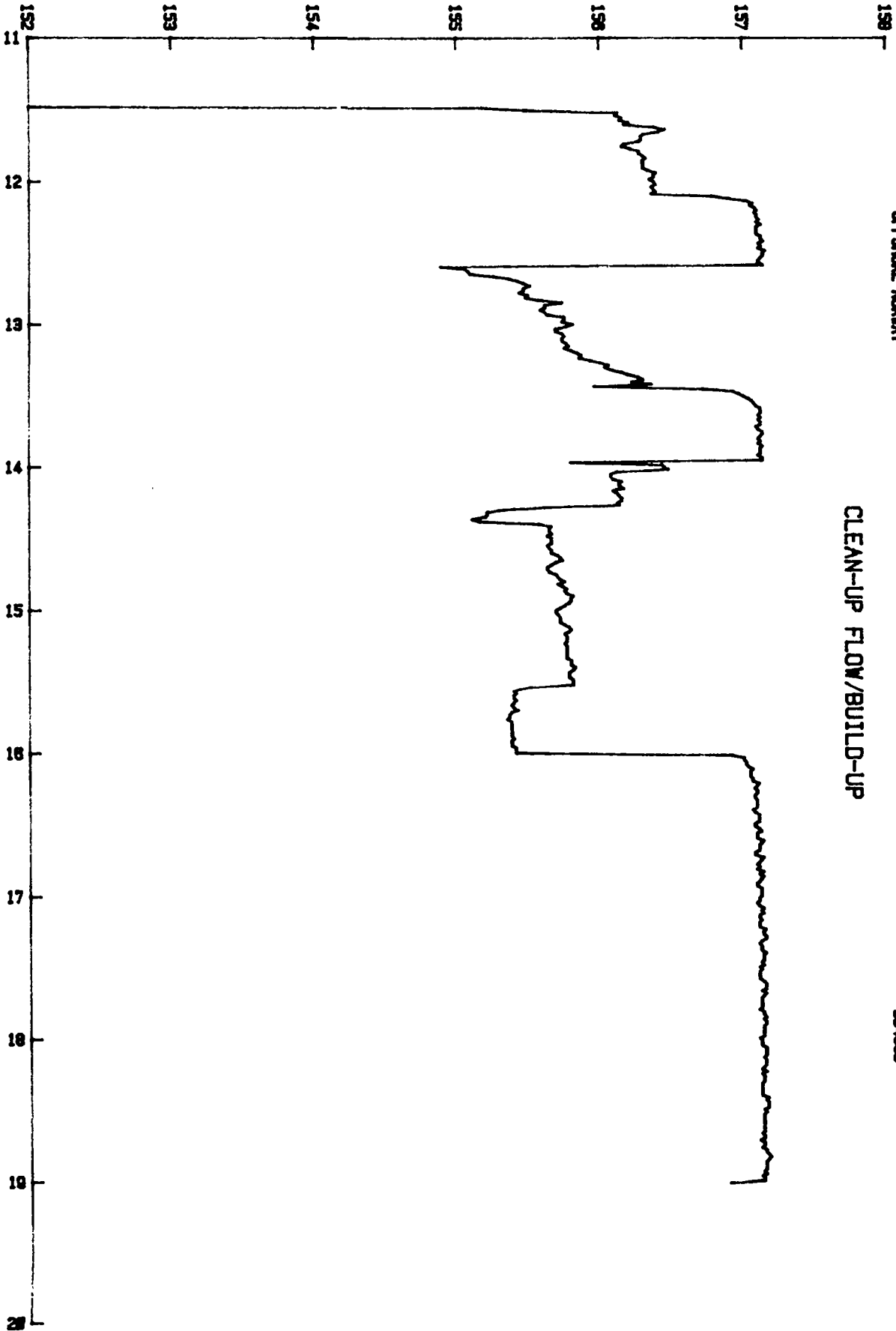
PRESSURE Scale 1 inch = 1 BARS

STATOIL
31/2-1 DST 1 MAIN 1
TROLL
OFFSHORE NORWAY

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

CLEAN-UP FLOW/BUILD-UP

12 SEPTEMBER 1983
NR-83-30100
WK 3 01:00H
D04983



REAL TIME
Scale 1 inch = 1 hour

12/ 9/83

9/25/83

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (INITIAL STATIC)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	128.123	52.2	10:25	13/ 9/83 START OF DATA
0.017	128.093	52.2	10:26	
0.033	127.973	52.2	10:27	
0.050	128.153	52.2	10:28	
0.067	128.168	52.2	10:29	
0.083	128.168	52.2	10:30	
0.100	128.093	52.2	10:31	
0.117	127.883	52.2	10:32	
0.133	127.764	52.2	10:33	
0.150	127.793	52.2	10:34	
0.167	127.704	52.2	10:35	
0.183	127.704	52.2	10:36	
0.200	127.734	52.2	10:37	
0.217	127.734	52.2	10:38	
0.233	127.734	52.2	10:39	
0.250	127.704	52.2	10:40	
0.267	127.674	52.2	10:41	
0.283	127.734	52.2	10:42	
0.300	127.674	52.2	10:43	
0.317	127.764	52.2	10:44	
0.333	127.734	52.2	10:45	
0.350	127.734	52.2	10:46	
0.367	127.734	52.2	10:47	
0.383	127.734	52.2	10:48	
0.400	127.689	52.2	10:49	
0.417	127.793	52.2	10:50	
0.433	127.808	52.2	10:51	
0.450	127.793	52.2	10:52	
0.467	127.734	52.2	10:53	
0.483	127.629	52.2	10:54	
0.500	127.704	52.2	10:55	
0.517	127.704	52.2	10:56	
0.533	127.779	52.2	10:57	
0.550	127.764	52.2	10:58	
0.567	127.793	52.2	10:59	
0.583	127.734	52.2	11: 0	
0.600	127.721	52.5	11: 1	
0.617	127.631	52.5	11: 2	
0.633	127.781	52.5	11: 3	
0.650	127.661	52.5	11: 4	
0.667	127.691	52.5	11: 5	
0.683	127.751	52.5	11: 6	
0.700	127.661	52.5	11: 7	
0.717	127.826	52.5	11: 8	
0.733	127.781	52.5	11: 9	
0.750	127.676	52.5	11:10	
0.767	127.601	52.5	11:11	
0.783	127.811	52.5	11:12	
0.800	127.781	52.5	11:13	
0.817	127.751	52.5	11:14	

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

NOIL
JLL

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

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DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (INITIAL STATIC)

LTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.833	127.751	52.5	11:15	13/ 9/83
0.850	127.781	52.5	11:16	
0.867	127.661	52.5	11:17	
0.883	127.736	52.5	11:18	
0.900	127.766	52.5	11:19	
0.917	127.841	52.5	11:20	
0.933	127.676	52.5	11:21	
0.950	127.706	52.5	11:22	
0.967	127.781	52.5	11:23	
0.983	127.766	52.5	11:24	
1.000	127.751	52.5	11:25	DROP DETONATING BAR AT 11:25
1.017	128.201	52.5	11:26	
1.033	128.231	52.5	11:27	
1.050	128.231	52.5	11:28	END OF STATIC

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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OFFSHORE NORWAY
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NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	128.231	52.5	11:28	13/ 9/83 DETONATE GUNS & FLOW
0.017	155.188	52.5	11:29	TO TANK ON 28/64"
0.033	155.488	52.5	11:30	ADJ. CHOKE AT 11:28
0.050	156.133	52.5	11:31	
0.067	156.118	52.5	11:32	
0.083	156.163	52.5	11:33	
0.100	156.148	52.7	11:34	
0.117	156.208	52.7	11:35	
0.133	156.178	52.7	11:36	FLOW TO BURNER
0.150	156.388	53.0	11:37	AT 11:36
0.167	156.463	53.0	11:38	
0.183	156.418	53.2	11:39	
0.200	156.313	53.5	11:40	GAS TO SURFACE
0.217	156.298	53.5	11:41	
0.233	156.298	53.7	11:42	
0.250	156.283	54.0	11:43	
0.267	156.178	54.2	11:44	
0.283	156.163	54.5	11:45	
0.300	156.223	54.5	11:46	
0.317	156.283	54.7	11:47	
0.333	156.283	55.0	11:48	
0.350	156.313	55.2	11:49	
0.367	156.328	55.2	11:50	
0.383	156.313	55.5	11:51	
0.400	156.313	55.5	11:52	
0.417	156.313	55.7	11:53	
0.433	156.314	56.0	11:54	
0.450	156.344	56.0	11:55	
0.467	156.403	56.0	11:56	
0.483	156.389	56.2	11:57	
0.500	156.389	56.2	11:58	
0.517	156.359	56.4	11:59	
0.533	156.389	56.4	12: 0	
0.550	156.404	56.4	12: 1	
0.567	156.374	56.7	12: 2	
0.583	156.389	56.7	12: 3	
0.600	156.404	56.7	12: 4	
0.617	156.374	56.9	12: 5	END OF FLOW PERIOD

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (FIRST SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	156.374	56.9	12: 5	13/ 9/83 CLOSE CHOKE MANIFOLD
0.017	156.794	56.9	12: 6	AT 12:05
0.033	156.914	56.9	12: 7	
0.050	157.033	56.9	12: 8	
0.067	157.078	56.9	12: 9	
0.083	157.063	57.2	12:10	
0.100	157.093	57.2	12:11	
0.117	157.108	57.2	12:12	
0.133	157.093	57.2	12:13	
0.150	157.108	57.2	12:14	
0.167	157.108	57.2	12:15	
0.183	157.123	57.2	12:16	
0.200	157.108	57.2	12:17	
0.217	157.138	57.2	12:18	
0.233	157.108	57.2	12:19	
0.250	157.108	57.2	12:20	
0.267	157.108	57.2	12:21	
0.283	157.108	57.2	12:22	
0.300	157.138	56.9	12:23	
0.317	157.138	56.9	12:24	
0.333	157.153	56.9	12:25	
0.350	157.123	56.9	12:26	
0.367	157.138	56.9	12:27	
0.383	157.123	56.9	12:28	
0.400	157.168	56.7	12:29	
0.417	157.153	56.7	12:30	
0.433	157.153	56.7	12:31	
0.450	157.138	56.7	12:32	
0.467	157.123	56.7	12:33	
0.483	157.123	56.7	12:34	
0.500	157.153	56.4	12:35	END OF SHUT-IN PERIOD

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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OFFSHORE NORWAY
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DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
0.017	157.153	56.4	12:35
0.033	154.890	56.4	12:36
0.050	155.070	56.4	12:37
0.067	155.085	56.4	12:38
0.083	155.100	56.4	12:39
0.100	155.265	56.2	12:40
0.117	155.370	56.2	12:41
0.133	155.429	56.2	12:42
0.150	155.474	56.2	12:43
0.167	155.519	56.2	12:44
0.183	155.475	56.4	12:45
0.200	155.475	56.4	12:46
0.217	155.445	56.4	12:47
0.233	155.505	56.4	12:48
0.250	155.490	56.7	12:49
0.267	155.580	56.7	12:50
0.283	155.745	56.7	12:51
0.300	155.625	56.9	12:52
0.317	155.625	56.9	12:53
0.333	155.595	56.9	12:54
0.350	155.625	56.9	12:55
0.367	155.640	57.2	12:56
0.383	155.760	57.2	12:57
0.400	155.760	57.2	12:58
0.417	155.745	57.4	12:59
0.433	155.820	57.4	13: 0
0.450	155.775	57.4	13: 1
0.467	155.701	57.7	13: 2
0.483	155.701	57.7	13: 3
0.500	155.746	57.7	13: 4
0.517	155.761	57.7	13: 5
0.533	155.746	57.9	13: 6
0.550	155.746	57.9	13: 7
0.567	155.776	57.9	13: 8
0.583	155.791	57.9	13: 9
0.600	155.761	58.2	13:10
0.617	155.806	58.2	13:11
0.633	155.851	58.2	13:12
0.650	155.881	58.2	13:13
0.667	155.866	58.4	13:14
0.683	155.941	58.4	13:15
0.700	156.016	58.4	13:16
0.717	156.076	58.4	13:17
0.733	156.046	58.7	13:18
0.750	156.091	58.7	13:19
0.767	156.166	58.7	13:20
0.783	156.211	58.7	13:21
0.800	156.286	58.7	13:22
0.817	156.316	58.9	13:23
0.833	156.241	58.9	13:24

13/ 9/83 WELL OPEN TO FLOW
ON 28/64" FIX. CHOKE
AT 12:34

FLOW TO SEPERATOR
AT 13:19

9/25/83

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.850	156.376	58.9	13:25	13/ 9/83
0.867	155.972	58.9	13:26	END OF FLOW PERIOD

9/25/83

SPERRY-SUN INTERNATIONAL
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OFFSHORE NORWAY
12 SEPTEMBER 1983
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DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (SECOND SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	155.972	58.9	13:26	13/ 9/83 CLOSE CHOKE MANIFOLD
0.017	156.735	58.9	13:27	AT 13:26
0.033	156.945	59.2	13:28	
0.050	156.990	59.2	13:29	
0.067	157.020	59.2	13:30	
0.083	157.050	59.2	13:31	
0.100	157.080	59.2	13:32	
0.117	157.095	59.2	13:33	
0.133	157.110	59.2	13:34	
0.150	157.140	59.2	13:35	
0.167	157.140	59.2	13:36	
0.183	157.140	59.2	13:37	
0.200	157.125	59.2	13:38	
0.217	157.140	59.2	13:39	
0.233	157.125	59.2	13:40	
0.250	157.140	59.2	13:41	
0.267	157.140	59.2	13:42	
0.283	157.110	59.2	13:43	
0.300	157.125	59.2	13:44	
0.317	157.155	58.9	13:45	
0.333	157.155	58.9	13:46	
0.350	157.140	58.9	13:47	
0.367	157.125	58.9	13:48	
0.383	157.140	58.9	13:49	
0.400	157.125	58.9	13:50	
0.417	157.154	58.7	13:51	
0.433	157.139	58.7	13:52	
0.450	157.139	58.7	13:53	
0.467	157.139	58.7	13:54	
0.483	157.124	58.7	13:55	
0.500	157.154	58.4	13:56	
0.517	157.154	58.4	13:57	END OF SHUT-IN PERIOD

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1OFFSHORE NORWAY
12 SEPTEMBER 1983
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DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (THIRD FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.017	157.154	58.4	13:57	13/ 9/83 WELL OPEN TO FLOW ON
0.033	155.806	58.4	13:58	2 X 20/64" CHOKES AT
0.050	156.450	58.4	13:59	THE HEATER AT 13:56
0.067	156.465	58.4	14: 0	FLOW TO SEPARATOR
0.083	156.495	58.2	14: 1	ADJUSTING CHOKES FOR
0.100	156.136	58.2	14: 2	280,000 SM3/D
0.117	156.091	58.2	14: 3	
0.133	156.091	58.2	14: 4	
0.150	156.106	58.2	14: 5	
0.167	156.166	58.2	14: 6	
0.183	156.151	58.2	14: 7	
0.200	156.151	58.2	14: 8	
0.217	156.181	58.2	14: 9	
0.233	156.106	58.4	14:10	
0.250	156.136	58.4	14:11	
0.267	156.151	58.4	14:12	
0.283	156.166	58.4	14:13	
0.300	156.166	58.4	14:14	
0.317	156.136	58.7	14:15	
0.333	156.151	58.7	14:16	
0.350	155.627	58.7	14:17	
0.367	155.343	58.7	14:18	
0.383	155.223	58.9	14:19	
0.400	155.223	58.9	14:20	
0.417	155.208	58.9	14:21	
0.433	155.119	59.2	14:22	
0.450	155.164	59.2	14:23	
0.467	155.583	59.2	14:24	
0.483	155.673	59.2	14:25	
0.500	155.658	59.4	14:26	
0.517	155.658	59.4	14:27	
0.533	155.673	59.4	14:28	
0.550	155.644	59.7	14:29	
0.567	155.674	59.7	14:30	
0.583	155.674	59.7	14:31	
0.600	155.674	59.7	14:32	
0.617	155.644	59.9	14:33	
0.633	155.659	59.9	14:34	
0.650	155.674	59.9	14:35	
0.667	155.674	59.9	14:36	
0.683	155.719	59.9	14:37	
0.700	155.734	59.9	14:38	
0.717	155.749	59.9	14:39	
0.733	155.704	60.2	14:40	
0.750	155.674	60.2	14:41	
0.767	155.644	60.2	14:42	
0.783	155.644	60.2	14:43	
0.800	155.659	60.2	14:44	
0.817	155.704	60.2	14:45	
0.833	155.719	60.2	14:46	

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MAGNETIC RECORDING PRESSURE GAUGE REPORT

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

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (THIRD FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
0.850	155.734	60.2	14:47 13/ 9/83
0.867	155.764	60.2	14:48
0.883	155.720	60.4	14:49
0.900	155.750	60.4	14:50
0.917	155.779	60.4	14:51
0.933	155.764	60.4	14:52
0.950	155.779	60.4	14:53
0.967	155.824	60.4	14:54
0.983	155.809	60.4	14:55
1.000	155.809	60.4	14:56
1.017	155.794	60.4	14:57
1.033	155.765	60.7	14:58
1.050	155.735	60.7	14:59
1.067	155.705	60.7	15: 0
1.083	155.705	60.7	15: 1
1.100	155.720	60.7	15: 2
1.117	155.735	60.7	15: 3
1.133	155.735	60.7	15: 4
1.150	155.735	60.7	15: 5
1.167	155.765	60.7	15: 6
1.183	155.795	60.7	15: 7
1.200	155.810	60.7	15: 8
1.217	155.795	60.7	15: 9
1.233	155.765	60.9	15:10
1.250	155.780	60.9	15:11
1.267	155.780	60.9	15:12
1.283	155.780	60.9	15:13
1.300	155.765	60.9	15:14
1.317	155.780	60.9	15:15
1.333	155.780	60.9	15:16
1.350	155.780	60.9	15:17
1.367	155.780	60.9	15:18
1.383	155.780	60.9	15:19
1.400	155.780	60.9	15:20
1.417	155.810	60.9	15:21
1.433	155.810	60.9	15:22
1.450	155.810	60.9	15:23
1.467	155.840	60.9	15:24
1.483	155.825	60.9	15:25
1.500	155.796	61.2	15:26
1.517	155.796	61.2	15:27
1.533	155.796	61.2	15:28
1.550	155.826	61.2	15:29
1.567	155.826	61.2	15:30
1.583	155.826	61.2	15:31
1.600	155.526	61.2	15:32
1.617	155.452	61.2	15:33
1.633	155.407	61.2	15:34
1.650	155.422	61.2	15:35
1.667	155.407	61.2	15:36

ADJUST CHOKES FOR
480,000 SM3/D AT 15:32

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

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (THIRD FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.683	155.407	61.2	15:37	13/ 9/83
1.700	155.422	61.2	15:38	
1.717	155.407	61.2	15:39	
1.733	155.392	61.2	15:40	
1.750	155.407	61.2	15:41	
1.767	155.437	61.2	15:42	
1.783	155.392	61.4	15:43	
1.800	155.377	61.4	15:44	
1.817	155.377	61.4	15:45	
1.833	155.362	61.4	15:46	
1.850	155.392	61.4	15:47	
1.867	155.392	61.4	15:48	
1.883	155.392	61.4	15:49	
1.900	155.392	61.4	15:50	
1.917	155.392	61.4	15:51	
1.933	155.392	61.4	15:52	
1.950	155.392	61.4	15:53	
1.967	155.407	61.4	15:54	
1.983	155.392	61.4	15:55	
2.000	155.392	61.4	15:56	
2.017	155.392	61.4	15:57	
2.033	155.422	61.4	15:58	
2.050	155.422	61.4	15:59	
2.067	155.422	61.4	16: 0	

END OF FLOW PERIOD

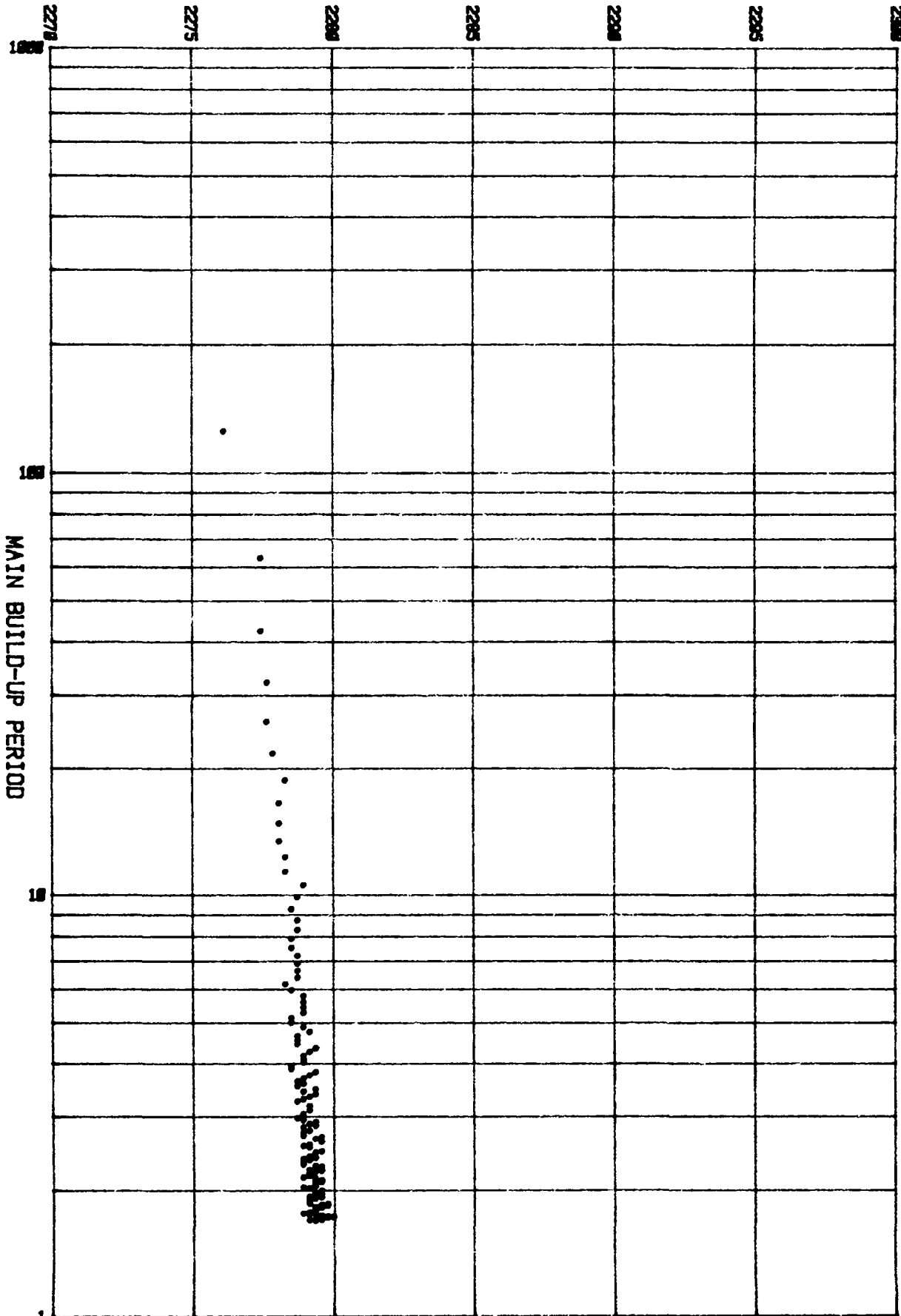
PRESSURE

Scale: 1 inch = 5 PSIA

STATOIL
91/9-1 DST 1 RUN 1
TROLL
OFFSHORE NORWAY

NL Sperry-Sun, Inc.
HORNER PLOT

12 SEPTEMBER 1983
NR-48-50700
MK 9 0100H
DM4884



T = 2.087 hours

(T+DT) / DT

SHUT-IN TIME = 1841 mins.
FINAL DELTA TIME = 2821 mins.

9/25/83

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (THIRD SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME
0.000	155.422	61.4	16: 0
0.017	156.933	61.4	16: 1
0.033	157.023	61.4	16: 2
0.050	157.023	61.7	16: 3
0.067	157.038	61.7	16: 4
0.083	157.038	61.7	16: 5
0.100	157.053	61.7	16: 6
0.117	157.083	61.7	16: 7
0.133	157.068	61.7	16: 8
0.150	157.068	61.7	16: 9
0.167	157.068	61.7	16:10
0.183	157.083	61.7	16:11
0.200	157.083	61.7	16:12
0.217	157.127	61.4	16:13
0.233	157.112	61.4	16:14
0.250	157.097	61.4	16:15
0.267	157.112	61.4	16:16
0.283	157.112	61.4	16:17
0.300	157.097	61.4	16:18
0.317	157.097	61.4	16:19
0.333	157.112	61.2	16:20
0.350	157.112	61.2	16:21
0.367	157.112	61.2	16:22
0.383	157.112	61.2	16:23
0.400	157.082	61.2	16:24
0.417	157.097	61.2	16:25
0.433	157.127	60.9	16:26
0.450	157.127	60.9	16:27
0.467	157.127	60.9	16:28
0.483	157.127	60.9	16:29
0.500	157.097	60.9	16:30
0.517	157.097	60.9	16:31
0.533	157.126	60.7	16:32
0.550	157.141	60.7	16:33
0.567	157.111	60.7	16:34
0.583	157.111	60.7	16:35
0.600	157.111	60.7	16:36
0.617	157.156	60.4	16:37
0.633	157.141	60.4	16:38
0.650	157.126	60.4	16:39
0.667	157.126	60.4	16:40
0.683	157.126	60.4	16:41
0.700	157.096	60.4	16:42
0.717	157.096	60.4	16:43
0.733	157.156	60.2	16:44
0.750	157.141	60.2	16:45
0.767	157.126	60.2	16:46
0.783	157.111	60.2	16:47
0.800	157.126	60.2	16:48
0.817	157.111	60.2	16:49

13/ 9/83 CLOSE CHOKE & PCT
AT 16:00

9/25/83

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (THIRD SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.833	157.156	59.9	16:50	13/ 9/83
0.850	157.126	59.9	16:51	
0.867	157.156	59.9	16:52	
0.883	157.141	59.9	16:53	
0.900	157.126	59.9	16:54	
0.917	157.111	59.9	16:55	
0.933	157.111	59.9	16:56	
0.950	157.140	59.7	16:57	
0.967	157.140	59.7	16:58	
0.983	157.140	59.7	16:59	
1.000	157.140	59.7	17: 0	
1.017	157.125	59.7	17: 1	
1.033	157.125	59.7	17: 2	
1.050	157.110	59.7	17: 3	
1.067	157.125	59.7	17: 4	
1.083	157.155	59.4	17: 5	
1.100	157.140	59.4	17: 6	
1.117	157.155	59.4	17: 7	
1.133	157.125	59.4	17: 8	
1.150	157.125	59.4	17: 9	
1.167	157.140	59.4	17:10	
1.183	157.125	59.4	17:11	
1.200	157.125	59.4	17:12	
1.217	157.125	59.4	17:13	
1.233	157.170	59.2	17:14	
1.250	157.155	59.2	17:15	
1.267	157.155	59.2	17:16	
1.283	157.170	59.2	17:17	
1.300	157.170	59.2	17:18	
1.317	157.140	59.2	17:19	
1.333	157.125	59.2	17:20	
1.350	157.140	59.2	17:21	
1.367	157.140	59.2	17:22	
1.383	157.140	59.2	17:23	
1.400	157.170	58.9	17:24	
1.417	157.155	58.9	17:25	
1.433	157.155	58.9	17:26	
1.450	157.155	58.9	17:27	
1.467	157.140	58.9	17:28	
1.483	157.155	58.9	17:29	
1.500	157.125	58.9	17:30	
1.517	157.140	58.9	17:31	
1.533	157.125	58.9	17:32	
1.550	157.125	58.9	17:33	
1.567	157.125	58.9	17:34	
1.583	157.125	58.9	17:35	
1.600	157.154	58.7	17:36	
1.617	157.169	58.7	17:37	
1.633	157.169	58.7	17:38	
1.650	157.169	58.7	17:39	

9/25/83

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (THIRD SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.667	157.139	58.7	17:40	13/ 9/83
1.683	157.169	58.7	17:41	
1.700	157.154	58.7	17:42	
1.717	157.139	58.7	17:43	
1.733	157.139	58.7	17:44	
1.750	157.139	58.7	17:45	
1.767	157.139	58.7	17:46	
1.783	157.139	58.7	17:47	
1.800	157.124	58.7	17:48	
1.817	157.154	58.4	17:49	
1.833	157.154	58.4	17:50	
1.850	157.169	58.4	17:51	
1.867	157.154	58.4	17:52	
1.883	157.169	58.4	17:53	
1.900	157.169	58.4	17:54	
1.917	157.154	58.4	17:55	
1.933	157.154	58.4	17:56	
1.950	157.154	58.4	17:57	
1.967	157.154	58.4	17:58	
1.983	157.154	58.4	17:59	
2.000	157.124	58.4	18: 0	
2.017	157.139	58.4	18: 1	
2.033	157.139	58.4	18: 2	
2.050	157.139	58.4	18: 3	
2.067	157.169	58.2	18: 4	
2.083	157.169	58.2	18: 5	
2.100	157.169	58.2	18: 6	
2.117	157.169	58.2	18: 7	
2.133	157.154	58.2	18: 8	
2.150	157.169	58.2	18: 9	
2.167	157.169	58.2	18:10	
2.183	157.169	58.2	18:11	
2.200	157.154	58.2	18:12	
2.217	157.139	58.2	18:13	
2.233	157.169	58.2	18:14	
2.250	157.139	58.2	18:15	
2.267	157.154	58.2	18:16	
2.283	157.154	58.2	18:17	
2.300	157.154	58.2	18:18	
2.317	157.139	58.2	18:19	
2.333	157.139	58.2	18:20	
2.350	157.139	58.2	18:21	
2.367	157.139	58.2	18:22	
2.383	157.139	58.2	18:23	
2.400	157.139	58.2	18:24	
2.417	157.184	57.9	18:25	
2.433	157.169	57.9	18:26	
2.450	157.184	57.9	18:27	
2.467	157.184	57.9	18:28	
2.483	157.184	57.9	18:29	

9/25/83

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

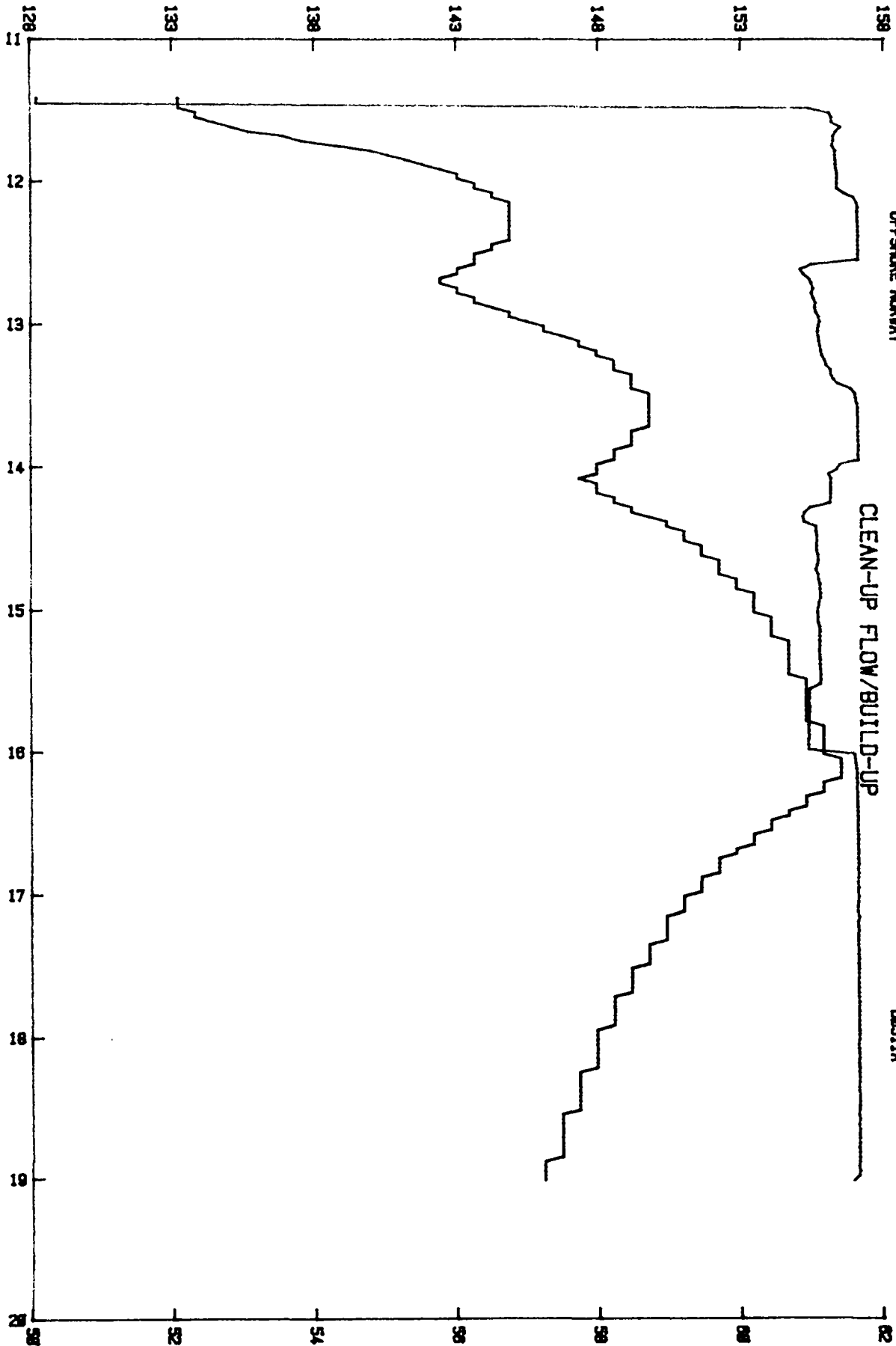
OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0106M, SENSING DEPTH 1492.15 M (THIRD SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
2.500	157.154	57.9	18:30	13/ 9/83
2.517	157.169	57.9	18:31	
2.533	157.154	57.9	18:32	
2.550	157.154	57.9	18:33	
2.567	157.154	57.9	18:34	
2.583	157.154	57.9	18:35	
2.600	157.154	57.9	18:36	
2.617	157.154	57.9	18:37	
2.633	157.154	57.9	18:38	
2.650	157.154	57.9	18:39	
2.667	157.139	57.9	18:40	
2.683	157.154	57.9	18:41	
2.700	157.154	57.9	18:42	
2.717	157.124	57.9	18:43	
2.733	157.154	57.9	18:44	
2.750	157.154	57.9	18:45	
2.767	157.139	57.9	18:46	
2.783	157.169	57.7	18:47	
2.800	157.169	57.7	18:48	
2.817	157.184	57.7	18:49	
2.833	157.199	57.7	18:50	
2.850	157.184	57.7	18:51	
2.867	157.169	57.7	18:52	
2.883	157.169	57.7	18:53	
2.900	157.169	57.7	18:54	
2.917	157.169	57.7	18:55	
2.933	157.154	57.7	18:56	
2.950	157.169	57.7	18:57	
2.967	157.139	57.7	18:58	
2.983	157.154	57.7	18:59	
3.000	157.154	57.7	19: 0	
3.017	156.914	57.7	19: 1	

END OF SHUT-IN PERIOD

PRESSURE Scale 1 inch = 5 BARS



STATOIL
31/3-1 DST 1 RUN 1
TROLL
OFFSHORE NORWAY

NL Sperry-Sun, Inc.
PRESSURE/TEMP. Vs TIME PLOT
CLEAN-UP FLOW/BUILD-UP

12 SEPTEMBER 1983
NR-NS-38783
WK 3 012PM
D8511A

REAL TIME
Scale 1 inch = 1 hour

19/ 9/83

TEMPERATURE Scale 1 inch = 2 (deg. C)

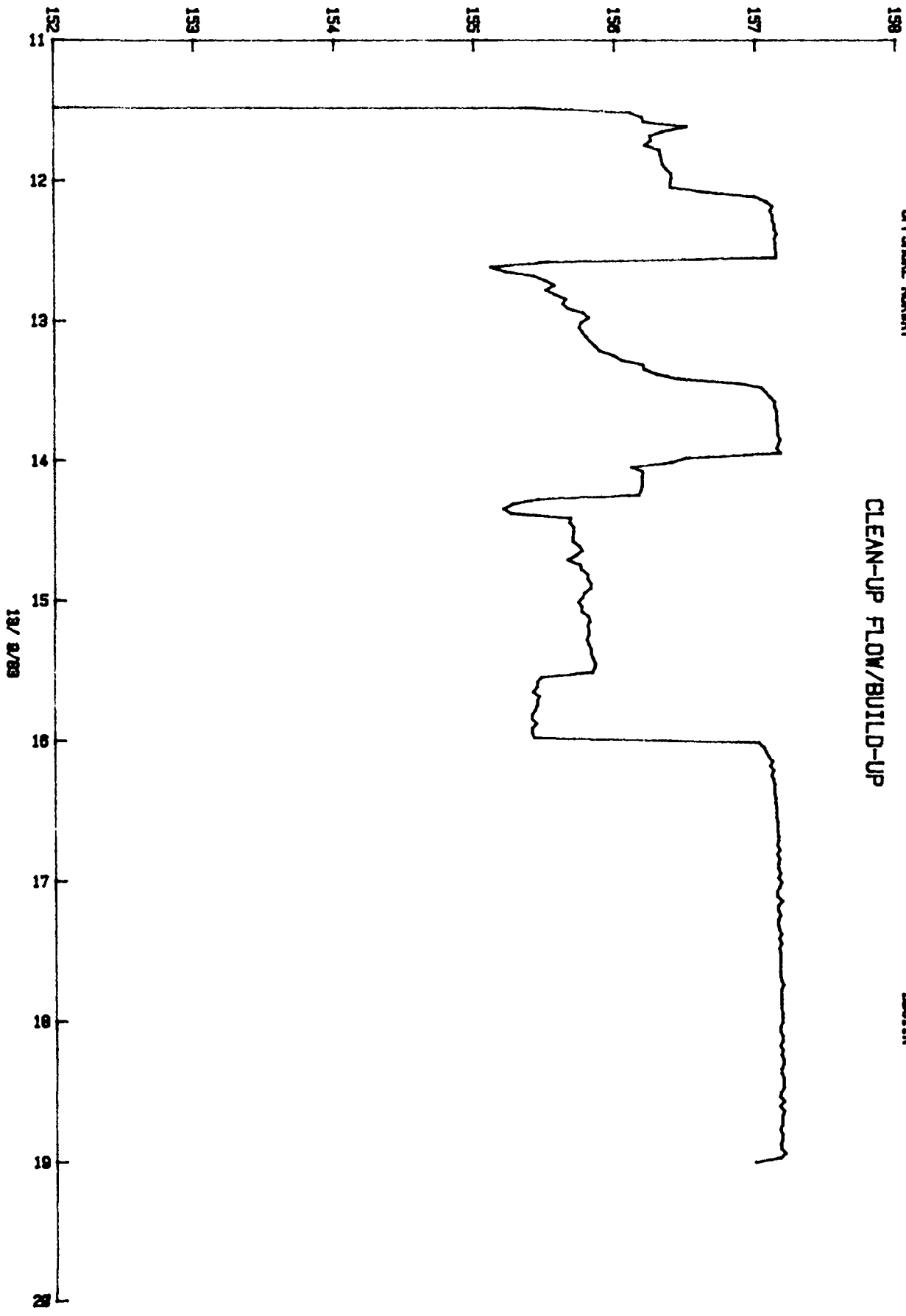
PRESSURE

Scale 1 inch = 1 BARS

STATOIL
31/3-1 DST 1 RUN 1
TROLL
OFFSHORE NORWAY

NL Sperry-Sun, Inc.
PRESSURE/TEMP. Vs TIME PLOT
CLEAN-UP FLOW/BUILD-UP

12 SEPTEMBER 1983
NR-NS-30180
MK 3 0120M
DMS11A



REAL TIME
Scale 1 inch = 1 hour

19/ 8/83

9/25/83

SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (INITIAL STATIC)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	128.115	52.1	10:25	13/ 9/83 START OF DATA
0.033	128.054	52.1	10:27	
0.067	128.236	52.1	10:29	
0.100	128.115	52.1	10:31	
0.133	127.872	52.1	10:33	
0.167	127.751	52.1	10:35	
0.200	127.690	52.1	10:37	
0.233	127.796	52.1	10:39	
0.267	127.705	52.1	10:41	
0.300	127.766	52.1	10:43	
0.333	127.811	52.1	10:45	
0.367	127.766	52.1	10:47	
0.400	127.660	52.1	10:49	
0.433	127.827	52.1	10:51	
0.467	127.781	52.1	10:53	
0.500	127.675	52.1	10:55	
0.533	127.751	52.1	10:57	
0.567	127.827	52.1	10:59	
0.600	127.872	52.1	11: 1	
0.633	127.811	52.1	11: 3	
0.667	127.690	52.1	11: 5	
0.700	127.766	52.1	11: 7	
0.733	127.842	52.1	11: 9	
0.767	127.751	52.1	11:11	
0.800	127.720	52.1	11:13	
0.833	127.811	52.1	11:15	
0.867	127.811	52.1	11:17	
0.900	127.796	52.1	11:19	
0.933	127.781	52.1	11:21	
0.967	127.781	52.1	11:23	
1.000	128.221	52.1	11:25	DROP DETONATING BAR
1.033	128.206	52.1	11:27	END OF STATIC

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SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (FIRST FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	128.206	52.1	11:27	13/ 9/83 DETONATE GUNS & FLOW
0.017	155.373	52.1	11:29	ON 28/64" CHOKE AT 11:28
0.050	156.110	52.3	11:31	
0.083	156.201	52.3	11:33	
0.117	156.209	52.6	11:35	FLOW TO BURNER
0.150	156.520	52.8	11:37	AT 11:36
0.183	156.346	53.1	11:39	GAS TO SURFACE
0.217	156.256	53.6	11:41	AT 11:40
0.250	156.264	53.8	11:43	
0.283	156.219	54.3	11:45	
0.317	156.326	54.8	11:47	
0.350	156.334	55.0	11:49	
0.383	156.342	55.3	11:51	
0.417	156.351	55.5	11:53	
0.450	156.374	55.8	11:55	
0.483	156.412	56.0	11:57	
0.517	156.412	56.0	11:59	
0.550	156.405	56.3	12: 1	
0.583	156.405	56.3	12: 3	END OF FLOW PERIOD

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SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
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OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (SECOND FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	157.163	56.3	12:33	13/ 9/83 WELL OPEN TO FLOW
0.017	155.526	56.3	12:35	ON 28/64" FIX. CHOKE
0.050	155.123	56.0	12:37	AT 12:34
0.083	155.230	56.0	12:39	
0.117	155.434	55.8	12:41	
0.150	155.510	55.8	12:43	
0.183	155.578	56.0	12:45	
0.217	155.518	56.0	12:47	
0.250	155.587	56.3	12:49	
0.283	155.662	56.3	12:51	
0.317	155.640	56.5	12:53	
0.350	155.679	56.8	12:55	
0.383	155.785	56.8	12:57	
0.417	155.823	57.0	12:59	
0.450	155.771	57.2	13: 1	
0.483	155.756	57.2	13: 3	
0.517	155.779	57.5	13: 5	
0.550	155.802	57.7	13: 7	
0.583	155.833	57.7	13: 9	
0.617	155.871	58.0	13:11	
0.650	155.902	58.0	13:13	
0.683	156.001	58.2	13:15	
0.717	156.061	58.2	13:17	
0.750	156.213	58.2	13:19	FLOW TO SEPARATOR
0.783	156.221	58.5	13:21	AT 13:19
0.817	156.312	58.5	13:23	
0.850	156.463	58.5	13:25	END OF FLOW PERIOD

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SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (SECOND SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	156.463	58.5	13:25	13/ 9/83 CLOSE CHOKE MANIFOLD
0.017	156.903	58.5	13:27	AT 13:26
0.050	157.062	58.7	13:29	
0.083	157.093	58.7	13:31	
0.117	157.123	58.7	13:33	
0.150	157.153	58.7	13:35	
0.183	157.153	58.7	13:37	
0.217	157.168	58.7	13:39	
0.250	157.168	58.7	13:41	
0.283	157.168	58.7	13:43	
0.317	157.175	58.5	13:45	
0.350	157.175	58.5	13:47	
0.383	157.175	58.5	13:49	
0.417	157.191	58.5	13:51	
0.450	157.183	58.2	13:53	
0.483	157.167	58.2	13:55	
0.517	157.198	58.2	13:57	END OF SHUT-IN PERIOD

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SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (THIRD FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.017	157.198	58.2	13:57	13/ 9/83 WELL OPEN TO FLOW ON
0.050	156.523	58.0	13:59	HEATER CHOKES AT 13:56
0.083	156.417	58.0	14: 1	FLOW TO SEPARATOR
0.117	156.129	58.0	14: 3	ADJUSTING CHOKES FOR
0.150	156.212	57.7	14: 5	280,000 SM3/D AT 14:00
0.183	156.205	58.0	14: 7	
0.217	156.205	58.0	14: 9	
0.250	156.205	58.0	14:11	
0.283	156.198	58.2	14:13	
0.317	156.183	58.2	14:15	
0.350	155.464	58.5	14:17	
0.383	155.282	58.5	14:19	
0.417	155.214	58.7	14:21	
0.450	155.268	59.0	14:23	
0.483	155.692	59.0	14:25	
0.517	155.685	59.2	14:27	
0.550	155.716	59.2	14:29	
0.583	155.716	59.2	14:31	
0.617	155.709	59.5	14:33	
0.650	155.709	59.5	14:35	
0.683	155.754	59.5	14:37	
0.717	155.778	59.7	14:39	
0.750	155.732	59.7	14:41	
0.783	155.672	59.7	14:43	
0.817	155.763	59.7	14:45	
0.850	155.771	60.0	14:47	
0.883	155.816	60.0	14:49	
0.917	155.816	60.0	14:51	
0.950	155.840	60.2	14:53	
0.983	155.840	60.2	14:55	
1.017	155.794	60.2	14:57	
1.050	155.779	60.2	14:59	
1.083	155.749	60.2	15: 1	
1.117	155.772	60.4	15: 3	
1.150	155.772	60.4	15: 5	
1.183	155.818	60.4	15: 7	
1.217	155.833	60.4	15: 9	
1.250	155.818	60.4	15:11	
1.283	155.826	60.7	15:13	
1.317	155.826	60.7	15:15	
1.350	155.811	60.7	15:17	
1.383	155.826	60.7	15:19	
1.417	155.841	60.7	15:21	
1.450	155.841	60.7	15:23	
1.483	155.856	60.7	15:25	
1.517	155.871	60.7	15:27	
1.550	155.865	60.9	15:29	
1.583	155.849	60.9	15:31	ADJUST CHOKES FOR
1.617	155.486	60.9	15:33	480,000 SM3/D AT 15:32
1.650	155.456	60.9	15:35	

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SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (THIRD FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.683	155.456	60.9	15:37	13/ 9/83
1.717	155.426	60.9	15:39	
1.750	155.471	60.9	15:41	
1.783	155.456	60.9	15:43	
1.817	155.456	60.9	15:45	
1.850	155.441	60.9	15:47	
1.883	155.419	61.2	15:49	
1.917	155.419	61.2	15:51	
1.950	155.449	61.2	15:53	
1.983	155.419	61.2	15:55	
2.017	155.419	61.2	15:57	
2.050	155.434	61.2	15:59	END OF FLOW PERIOD

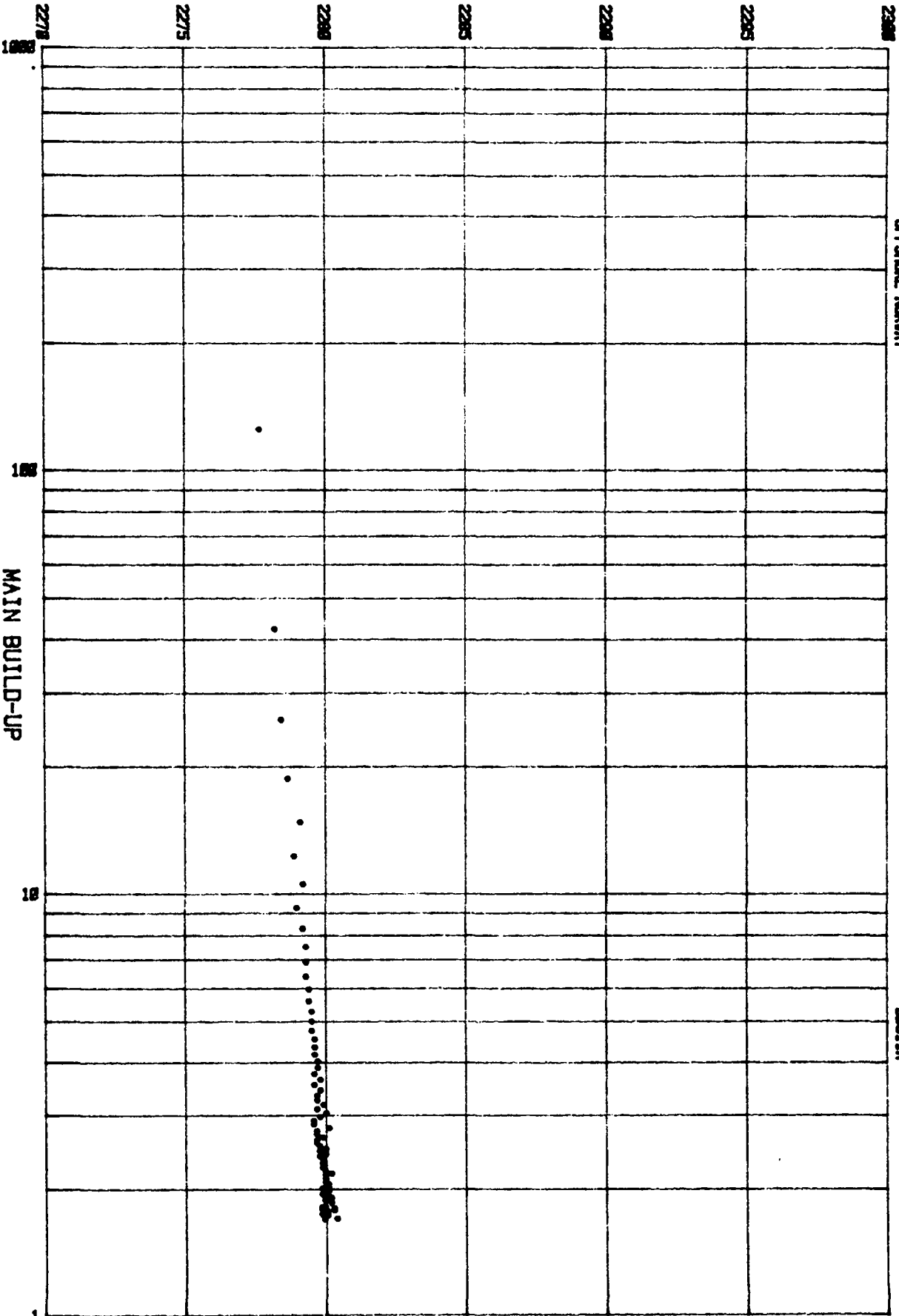
PRESSURE

Scale 1 inch = 5 PSIA

STATOIL
31/3-1 DST 1 RUN 1
THOLL
OFFSHORE NORWAY

NL Sperry-Sun, Inc.
HORNER PLOT

12 SEPTEMBER 1983
NR-48-20108
MK 3 01204
D0511A



T = 2.887 hours

$(T+DT) / DT$

SHUT-IN TIME = 1842 a.m.
FINAL DELTA TIME = 2021 a.m.

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SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

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

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (THIRD SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	155.434	61.2	15:59	13/ 9/83 CLOSE CHOKE & PCT
0.017	157.038	61.2	16: 1	AT 16:00
0.050	157.077	61.4	16: 3	
0.083	157.092	61.4	16: 5	
0.117	157.107	61.4	16: 7	
0.150	157.137	61.4	16: 9	
0.183	157.122	61.4	16:11	
0.217	157.144	61.2	16:13	
0.250	157.129	61.2	16:15	
0.283	157.144	61.2	16:17	
0.317	157.151	60.9	16:19	
0.350	157.151	60.9	16:21	
0.383	157.151	60.9	16:23	
0.417	157.158	60.7	16:25	
0.450	157.158	60.7	16:27	
0.483	157.165	60.4	16:29	
0.517	157.165	60.4	16:31	
0.550	157.165	60.4	16:33	
0.583	157.172	60.2	16:35	
0.617	157.172	60.2	16:37	
0.650	157.172	60.2	16:39	
0.683	157.179	60.0	16:41	
0.717	157.179	60.0	16:43	
0.750	157.171	59.7	16:45	
0.783	157.186	59.7	16:47	
0.817	157.171	59.7	16:49	
0.850	157.186	59.7	16:51	
0.883	157.178	59.5	16:53	
0.917	157.178	59.5	16:55	
0.950	157.193	59.5	16:57	
0.983	157.178	59.5	16:59	
1.017	157.200	59.2	17: 1	
1.050	157.185	59.2	17: 3	
1.083	157.170	59.2	17: 5	
1.117	157.170	59.2	17: 7	
1.150	157.207	59.0	17: 9	
1.183	157.177	59.0	17:11	
1.217	157.177	59.0	17:13	
1.250	157.192	59.0	17:15	
1.283	157.177	59.0	17:17	
1.317	157.177	59.0	17:19	
1.350	157.184	58.7	17:21	
1.383	157.199	58.7	17:23	
1.417	157.184	58.7	17:25	
1.450	157.199	58.7	17:27	
1.483	157.184	58.7	17:29	
1.517	157.191	58.5	17:31	
1.550	157.191	58.5	17:33	
1.583	157.191	58.5	17:35	
1.617	157.191	58.5	17:37	

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SPERRY-SUN INTERNATIONAL
MAGNETIC RECORDING PRESSURE GAUGE REPORT

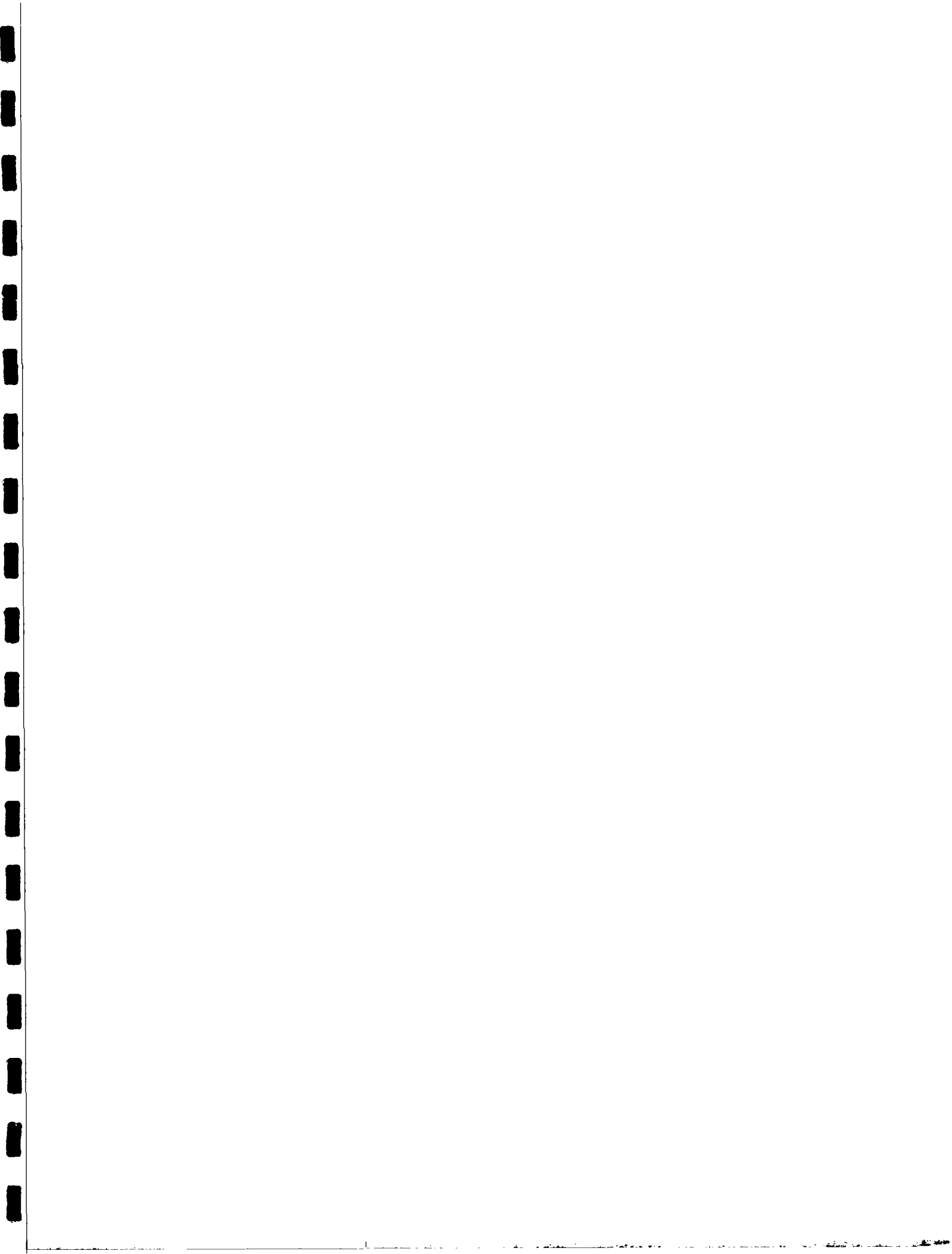
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STATOIL
TROLL
31/3-1OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-MS-30180

DST 1 RUN 1, MK 3 GAUGE 0120M, SENSING DEPTH 1492.15 M (THIRD SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
1.650	157.191	58.5	17:39	13/ 9/83
1.683	157.191	58.5	17:41	
1.717	157.198	58.2	17:43	
1.750	157.213	58.2	17:45	
1.783	157.198	58.2	17:47	
1.817	157.198	58.2	17:49	
1.850	157.198	58.2	17:51	
1.883	157.198	58.2	17:53	
1.917	157.198	58.2	17:55	
1.950	157.205	58.0	17:57	
1.983	157.205	58.0	17:59	
2.017	157.205	58.0	18: 1	
2.050	157.190	58.0	18: 3	
2.083	157.190	58.0	18: 5	
2.117	157.205	58.0	18: 7	
2.150	157.205	58.0	18: 9	
2.183	157.190	58.0	18:11	
2.217	157.205	58.0	18:13	
2.250	157.197	57.7	18:15	
2.283	157.212	57.7	18:17	
2.317	157.212	57.7	18:19	
2.350	157.197	57.7	18:21	
2.383	157.197	57.7	18:23	
2.417	157.212	57.7	18:25	
2.450	157.212	57.7	18:27	
2.483	157.212	57.7	18:29	
2.517	157.197	57.7	18:31	
2.550	157.189	57.5	18:33	
2.583	157.219	57.5	18:35	
2.617	157.189	57.5	18:37	
2.650	157.219	57.5	18:39	
2.683	157.204	57.5	18:41	
2.717	157.204	57.5	18:43	
2.750	157.204	57.5	18:45	
2.783	157.189	57.5	18:47	
2.817	157.204	57.5	18:49	
2.850	157.204	57.5	18:51	
2.883	157.196	57.2	18:53	
2.917	157.196	57.2	18:55	
2.950	157.226	57.2	18:57	
2.983	157.196	57.2	18:59	

END OF SHUT-IN PERIOD



SPERRY-SUN INTERNATIONAL INC.
MAGNETIC RECORDING PRESSURE GAUGE REPORT

STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-XS-30179

GAUGE NO:	019	006
ELEMENT SIZE	10 K	5 K
POSITION	UP-STREAM CHOKE	DOWN-STREAM CHOKE
MAX. TEMP.	12.4 C	11.6 C

EVENT	TIME/DATE	PRESSURE	PRESSURE
1st Flow	12:05	131.669	28.316
1st Shut-in	12:34	137.185	N/A
2nd Flow	13:26	134.840	27.075
2nd Shut-in	13:56	137.392	N/A
3rd Flow	16:00	121.603	121.603
3rd Shut-in	19:00	117.052	N/A

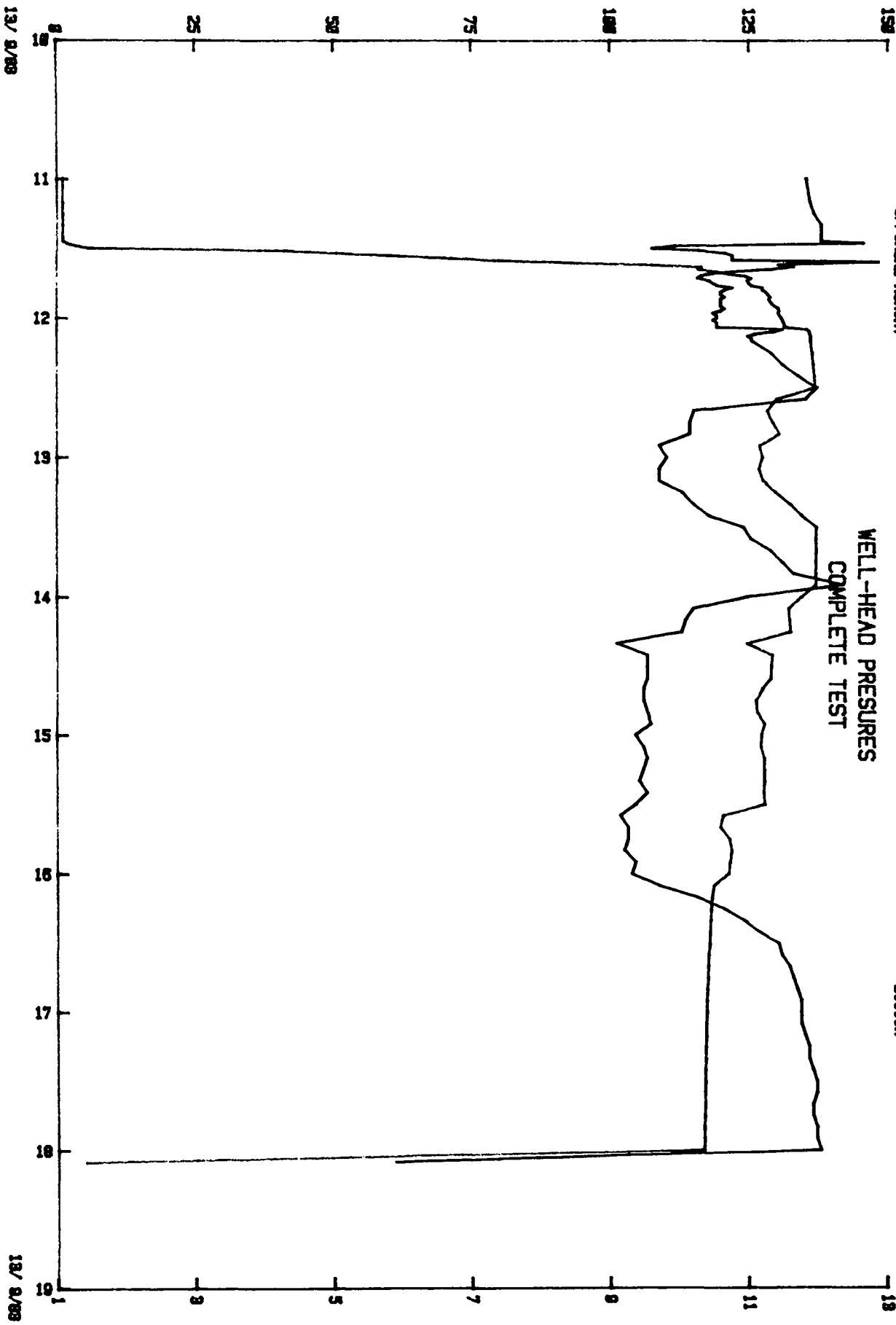
ENGINEER P.Smith

STATOIL ENGINEER J.Self

Note:- Pressures are in Bars.

PRESSURE

Scale: 1 inch = 25 BARS



STATOIL
31/3-1 DST 1 RUN 1
TROLL
OFFSHORE NORWAY

NL Sperry-Sun, Inc.
WELL-HEAD PRESSURES
PRESSURE/TEMP. vs TIME PLOT
COMPLETE TEST

12 SEPTEMBER 1983
NR-39-28179
NR-6 U/STREAM CHOKE
011111A

REAL TIME
Scale: 1 inch = 1 hour

TEMPERATURE

Scale: 1 inch = 2 (deg. C)

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SPERRY-SUN INTERNATIONAL
MR-SIX PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-XS-30179

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

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	1.082	12.1	11:26:59	13/ 9/83 DETONATE GUNS & FLOW TO TANK ON 28/64" ADJ CHOKE AT 11:28
-0.000	1.841	12.7	11:27:59	
0.016	3.426	9.9	11:28:59	
0.033	5.633	9.6	11:29:59	
0.050	41.279	10.3	11:30:59	
0.066	50.724	10.7	11:31:59	
0.083	60.032	10.8	11:32:59	
0.100	70.099	10.8	11:33:59	
0.116	80.234	10.8	11:34:59	
0.133	92.162	12.9	11:35:59	
0.150	107.744	11.4	11:36:59	FLOW TO BURNER AT 11:36
0.166	116.776	11.7	11:37:59	
0.183	116.087	11.3	11:38:59	
0.200	119.258	10.8	11:39:59	GAS TO SURFACE AT 11:40
0.216	121.671	10.4	11:40:59	
0.233	124.636	10.3	11:41:59	
0.250	125.601	10.3	11:42:59	
0.266	124.912	10.4	11:43:59	
0.283	125.188	10.5	11:44:59	
0.300	125.601	10.6	11:45:59	
0.316	127.601	10.8	11:46:59	
0.333	127.670	10.7	11:47:59	
0.350	128.359	10.6	11:48:59	
0.366	128.635	10.6	11:49:59	
0.383	129.049	10.7	11:50:59	
0.400	128.842	10.6	11:51:59	
0.416	129.049	10.6	11:52:59	
0.433	129.394	10.6	11:53:59	
0.450	129.876	10.6	11:54:59	
0.466	130.566	10.7	11:55:59	
0.483	130.635	10.6	11:56:59	
0.500	130.497	10.5	11:57:59	
0.516	130.773	10.6	11:58:59	
0.533	131.048	10.6	11:59:59	
0.550	131.255	10.5	12: 0:59	
0.566	131.462	10.6	12: 1:59	
0.583	131.600	10.6	12: 2:59	
0.600	131.669	10.6	12: 3:59	END OF FLOW PERIOD

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SPERRY-SUN INTERNATIONAL
MR-SIX PRESSURE GAUGE REPORT

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-XS-30179

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

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	131.669	10.6	12: 3:59	13/ 9/83 CLOSE CHOKE MANIFOLD
-0.000	135.668	11.5	12: 4:59	AT 12:05
0.016	136.082	11.4	12: 5:59	
0.033	136.219	11.1	12: 6:59	
0.050	136.357	11.0	12: 7:59	
0.066	136.357	11.1	12: 8:59	
0.083	136.357	11.1	12: 9:59	
0.167	136.633	11.3	12:15: 0	
0.250	136.840	11.5	12:20: 0	
0.333	137.047	11.7	12:25: 0	
0.417	137.185	12.0	12:30: 0	END OF SHUT-IN PERIOD

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SPERRY-SUN INTERNATIONAL
MR-SIX PRESSURE GAUGE REPORT

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STATOIL
TROLL
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OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-XS-30179

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

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.067	137.185	12.0	12:30: 0	13/ 9/83 WELL OPEN TO FLOW ON
0.017	130.221	11.8	12:35: 0	28/64" FIX CHOKE
0.100	128.566	10.2	12:40: 0	AT 12:34
0.183	129.531	10.2	12:45: 0	
0.267	130.704	10.2	12:50: 0	
0.350	127.187	9.7	12:55: 0	
0.433	127.670	9.8	13: 0: 0	
0.517	127.049	9.7	13: 5: 0	
0.600	127.808	9.7	13:10: 0	
0.683	130.083	10.1	13:15: 0	FLOW TO SEPARATOR
0.767	132.772	10.2	13:20: 0	AT 13:19
0.850	134.840	10.4	13:25: 0	END OF FLOW PERIOD

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SPERRY-SUN INTERNATIONAL
MR-SIX PRESSURE GAUGE REPORT

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STATOIL
TROLL
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OFFSHORE NORWAY
12 SEPTEMBER 1983
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DST 1 RUN 1, MR-6 PROBE 019, UP-STREAM CHOKE MANIFOLD (SECOND SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	134.840	10.4	13:25: 0	13/ 9/83 CLOSE CHOKE MANIFOLD
0.067	137.460	10.9	13:30: 0	AT 13:26
0.150	137.392	11.1	13:35: 0	
0.233	137.460	11.3	13:40: 0	
0.317	137.392	11.5	13:45: 0	
0.400	137.392	11.7	13:50: 0	
0.483	137.392	12.4	13:55: 0	END OF SHUT-IN PERIOD

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SPERRY-SUN INTERNATIONAL
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STATOIL
TROLL
31/3-1OFFSHORE NORWAY
12 SEPTEMBER 1983
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DST 1 RUN 1, MR-6 PROBE 019, UP-STREAM CHOKE MANIFOLD (THIRD FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	137.392	12.4	13:55: 0	13/ 9/83 WELL OPEN TO FLOW
0.067	134.840	11.0	14: 0: 0	FLOW TO SEPARATOR
0.150	132.496	10.2	14: 5: 0	ADJUSTING HEATER CHOKES
0.233	132.634	10.1	14:10: 0	FOR 280,000 SM3/D
0.317	132.841	10.1	14:15: 0	
0.400	124.912	9.1	14:20: 0	
0.483	129.531	9.6	14:25: 0	
0.567	129.394	9.6	14:30: 0	
0.650	129.256	9.6	14:35: 0	
0.733	127.739	9.5	14:40: 0	
0.817	126.567	9.5	14:45: 0	
0.900	126.843	9.6	14:50: 0	
0.983	128.153	9.6	14:55: 0	
1.067	127.601	9.4	15: 0: 0	
1.150	127.532	9.5	15: 5: 0	
1.233	128.084	9.6	15:10: 0	
1.317	128.084	9.5	15:15: 0	
1.400	128.084	9.4	15:20: 0	
1.483	128.015	9.6	15:25: 0	
1.567	128.153	9.4	15:30: 0	ADJUST CHOKES FOR
1.650	120.637	9.2	15:35: 0	480,000 SM3/D AT 15:32
1.733	120.155	9.3	15:40: 0	
1.817	121.809	9.3	15:45: 0	
1.900	122.154	9.2	15:50: 0	
1.983	121.878	9.4	15:55: 0	
2.067	121.603	9.3	16: 0: 0	END OF FLOW PERIOD

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
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DST 1 RUN 1,MR-6 PROBE 019,UP-STREAM CHOKE MANIFOLD (THIRD SHUT-IN PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
0.000	121.603	9.3	16: 0: 0	13/ 9/83 CLOSE CHOKE & PCT
0.083	118.914	9.7	16: 5: 0	AT 16:00
0.167	118.638	10.3	16:10: 0	
0.250	118.431	10.7	16:15: 0	
0.333	118.362	10.9	16:20: 0	
0.417	118.224	11.2	16:25: 0	
0.500	118.086	11.4	16:30: 0	
0.583	118.017	11.5	16:35: 0	
0.667	117.948	11.6	16:40: 0	
0.750	117.879	11.7	16:45: 0	
0.833	117.810	11.7	16:50: 0	
0.917	117.673	11.8	16:55: 0	
1.000	117.673	11.8	17: 0: 0	
1.083	117.535	11.8	17: 5: 0	
1.167	117.535	11.8	17:10: 0	
1.250	117.466	11.9	17:15: 0	
1.333	117.466	11.9	17:20: 0	
1.417	117.328	11.9	17:25: 0	
1.500	117.328	12.0	17:30: 0	
1.583	117.259	12.0	17:35: 0	
1.667	117.259	11.9	17:40: 0	
1.750	117.190	11.9	17:45: 0	
1.833	117.121	12.0	17:50: 0	
1.917	117.121	12.0	17:55: 0	
2.000	117.052	12.1	18: 0: 0	END OF DATA

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STATOIL
TROLL
31/3-1

OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-XS-30179

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

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	1.151	8.2	11:26:59	13/ 9/83 DETONATE GUNS & FLOW TO TANK ON 28/64" ADJ CHOKE AT 11:28
-0.000	1.358	8.8	11:27:59	
0.016	2.530	8.3	11:28:59	
0.033	4.116	8.4	11:29:59	
0.050	1.703	7.9	11:30:59	
0.066	1.979	8.3	11:31:59	
0.083	2.047	8.6	11:32:59	
0.100	1.979	8.8	11:33:59	
0.116	2.185	8.6	11:34:59	
0.133	2.461	9.2	11:35:59	FLOW TO BURNER AT 11:36
0.150	1.772	9.3	11:36:59	
0.166	17.216	9.9	11:37:59	
0.183	50.587	11.2	11:38:59	
0.200	32.315	7.6	11:39:59	GAS TO SURFACE AT 11:40
0.216	17.630	7.7	11:40:59	
0.233	19.560	8.9	11:41:59	
0.250	36.108	11.6	11:42:59	
0.266	40.796	9.4	11:43:59	
0.283	39.279	8.9	11:44:59	
0.300	39.900	8.8	11:45:59	
0.316	33.143	8.1	11:46:59	
0.333	36.108	8.9	11:47:59	
0.350	15.423	6.5	11:48:59	
0.366	14.251	7.8	11:49:59	
0.383	13.562	8.2	11:50:59	
0.400	12.527	8.2	11:51:59	
0.416	12.321	8.2	11:52:59	
0.433	12.596	8.1	11:53:59	
0.450	12.872	8.1	11:54:59	
0.466	11.769	7.8	11:55:59	
0.483	11.907	7.8	11:56:59	
0.500	13.079	7.7	11:57:59	
0.516	12.941	7.4	11:58:59	
0.533	13.010	7.3	11:59:59	
0.550	13.148	7.1	12: 0:59	
0.566	13.148	6.8	12: 1:59	
0.583	20.456	7.9	12: 2:59	
0.600	28.316	8.8	12: 3:59	END OF FLOW PERIOD

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OFFSHORE NORWAY
12 SEPTEMBER 1983
NR-XS-30179

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

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.067	1.082	5.3	12:30: 0	13/ 9/83 WELL OPEN TO FLOW ON
0.017	47.691	7.2	12:35: 0	28/64" FIX CHOKE
0.100	43.761	5.2	12:40: 0	AT 12:34
0.183	40.865	5.0	12:45: 0	
0.267	39.210	4.1	12:50: 0	
0.350	43.002	3.7	12:55: 0	
0.433	43.416	3.3	13: 0: 0	
0.517	50.655	3.1	13: 5: 0	
0.600	50.242	2.7	13:10: 0	
0.683	43.761	2.4	13:15: 0	FLOW TO SEPARATOR
0.767	35.625	2.8	13:20: 0	AT 13:19
0.850	27.075	3.1	13:25: 0	END OF FLOW PERIOD

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OFFSHORE NORWAY
12 SEPTEMBER 1983
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DST 1 RUN 1,MR-6 PROBE 006,DOWN-STREAM CHOKE MANIFOLD (THIRD FLOW PERIOD)

DELTA TIME HOURS	ABS PRESSURE (BARS)	TEMP. DEG C	TIME	
-0.017	1.082	3.8	13:55: 0	13/ 9/83 WELL OPEN TO FLOW
0.067	134.634	5.1	14: 0: 0	FLOW TO SEPARATOR
0.150	131.945	3.6	14: 5: 0	ADJUSTING HEATER CHOKES
0.233	132.289	4.0	14:10: 0	FOR 280,000 SM3/D
0.317	132.289	4.4	14:15: 0	
0.400	124.085	4.4	14:20: 0	
0.483	129.394	4.9	14:25: 0	
0.567	128.497	4.9	14:30: 0	
0.650	129.256	5.3	14:35: 0	
0.733	127.394	5.6	14:40: 0	
0.817	126.567	5.7	14:45: 0	
0.900	126.774	5.8	14:50: 0	
0.983	128.015	6.2	14:55: 0	
1.067	127.601	6.2	15: 0: 0	
1.150	127.601	6.3	15: 5: 0	
1.233	128.084	6.4	15:10: 0	
1.317	128.153	6.4	15:15: 0	
1.400	128.153	7.1	15:20: 0	
1.483	128.221	7.3	15:25: 0	
1.567	128.359	7.6	15:30: 0	ADJUST CHOKES FOR
1.650	120.430	7.6	15:35: 0	480,000 SM3/D AT 15:32
1.733	120.017	7.8	15:40: 0	
1.817	121.740	7.9	15:45: 0	
1.900	122.016	7.9	15:50: 0	
1.983	121.809	7.9	15:55: 0	
2.067	121.603	7.9	16: 0: 0	END OF FLOW PERIOD